

Bright Rock
School
Management
System
CBC
Curriculum

System
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PREFACE

This print is an operational guide on a website built for school management purposes.

The level in question is of pre-primary, lower primary and upper primary level, under the dispensation of the new Competence Based Curriculum, stipulated by the Kenya Institute of Curriculum Development as found in the link: <https://kicd.ac.ke/wp-content/uploads/2017/10/CURRICULUMFRAMEWORK.pdf>

The developer of the website observed that a school can operate with swifter correspondence to parents on matters touching on academic progress, fee statements, awards and honors, library books borrowed, items borrowed and disciplinary cases of his/her child.

School events are neatly put up on a calendar within a parent's dashboard in his/her account. Reminders and urgent matters are communicated to parents through an SMS that is composed in a headteacher's dashboard and broadcasted to select or to all the parents.

A window for sending email is also provided for lengthy messages.

The information system developed enforces information integrity, any addition or change of information is transparent of its source. This also upholds accountability of school property and fosters general integrity as a matter of principle.

Information is becoming increasingly indispensable in this age, in the space of business, public service, arts, entertainment and lifestyle. It helps with identifying trends and the making of informed decisions in strategic management.

"The organization of information actually creates new information"
Richard Saul Wurman

ACKNOWLEDGEMENT

It has been a long and tedious journey. I thank God for the spirit of determination in pursuit of the goal. Many a time I have been worn out under construction of the system, sometimes tearing down some modules and reconstructing all over with improved ideas for better user experience.

A big shout out to my friend James Kariuki, whom we used to stroll every Sunday evening exchanging ideas and mull over various possibilities that can be realized in the space of information systems. I appreciate a close friend and partner in startups, Vincent.

I also appreciate my former work colleagues, Richard, Gerald and Julius for being part of my growth as a system developer.

I dedicate this work to my sisters Melanie and Sheila, and to my mother Jane, who gave me moral support.

A special mention to my father Steve, whom we talk on call on enlightening discussions of interesting prospects in the field of Fintech.

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P.S This material is best appreciated if the reader goes hands on with a computer and an internet connection as it is all about simulation of the system

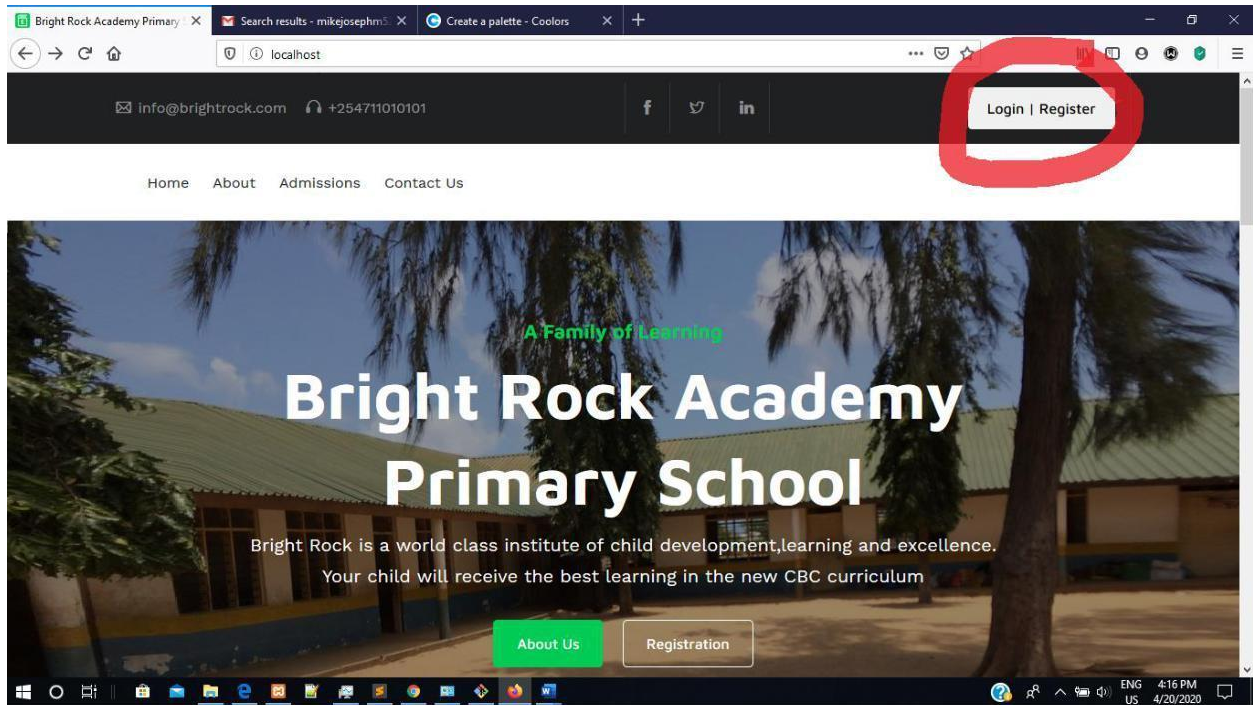
HEAD TEACHER

1. HEAD TEACHER REGISTRATION & LOGIN

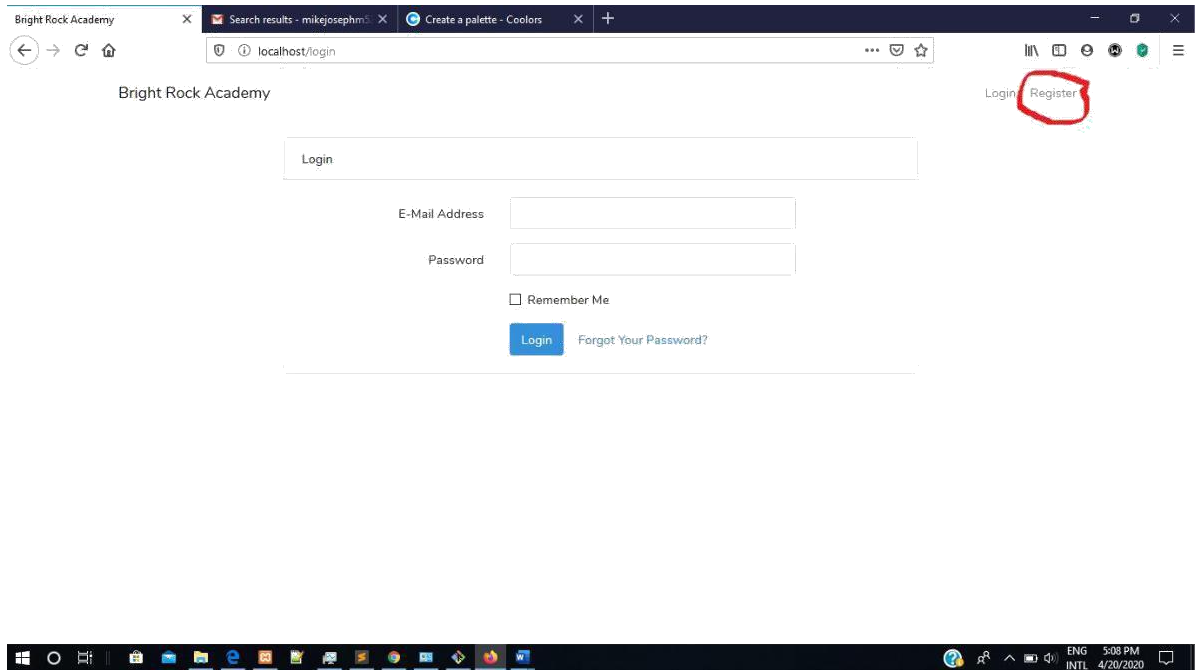
Visit <https://www.brightrock.co.ke>

Register to the system through the Login button at the top, far-right as illustrated in the picture below:

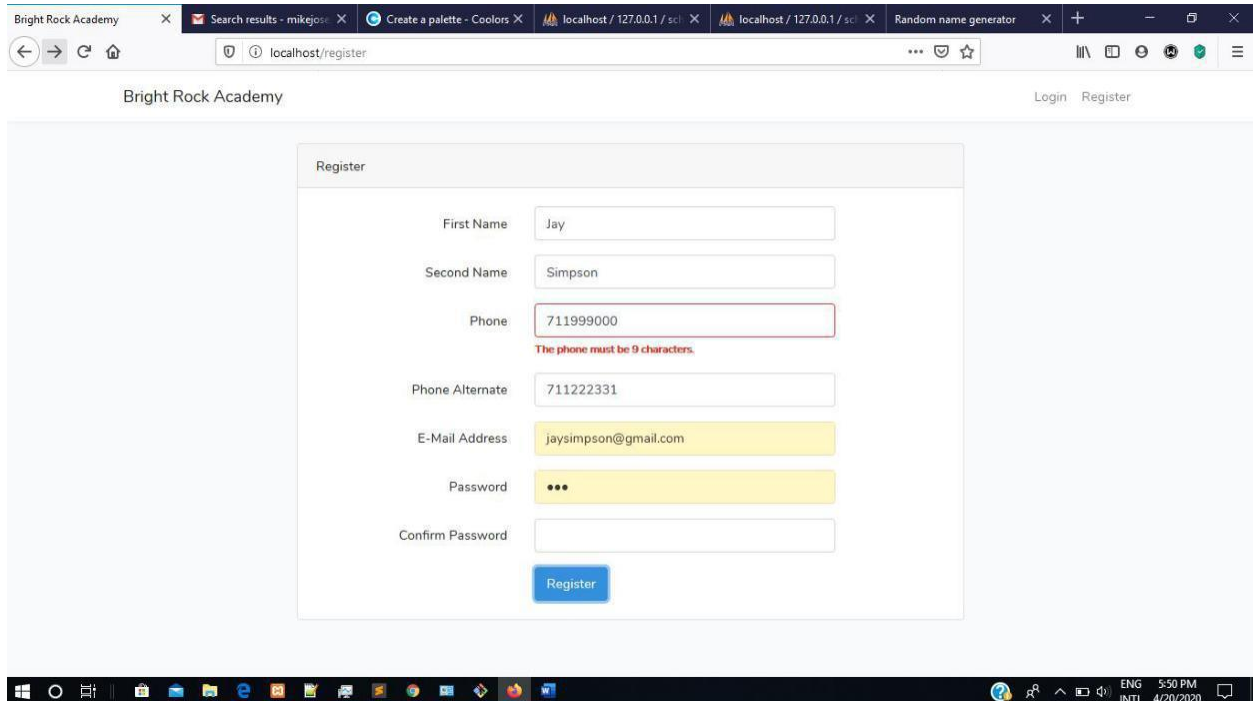
NB: This page is known as the Landing page



Next, is the Login/Registration page. Click the Register button circled in red



Enter dummy details and click Register. Note that for the live system, real email addresses are expected to be registered, with which a reply to them will be sent with a page to validate the website user.



So. The details entered above are as follows:

First Name: Jay

Second Name: Simpson

Phone Number: Any of local telecoms line

Email: jaysimpson@gmail.com

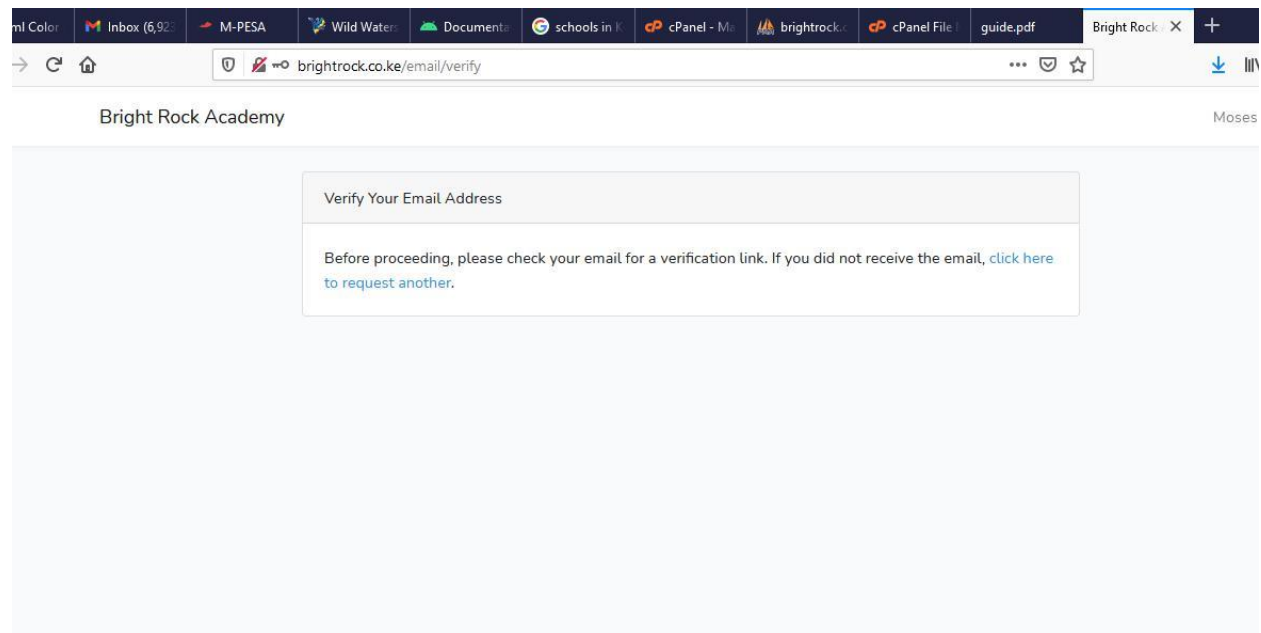
Password: 123

NB If you can find your own fictional names and credentials, its ok.

I obtain these fictional names from <http://random-name-generator.info>

Kindly note that the above data set (Jay Simpson and others that follow) may have been used by a preceding system tester, if taken you have to obtain different user data from the above link or otherwise. So, Jay Simpson will correspond to your generated user of choice.

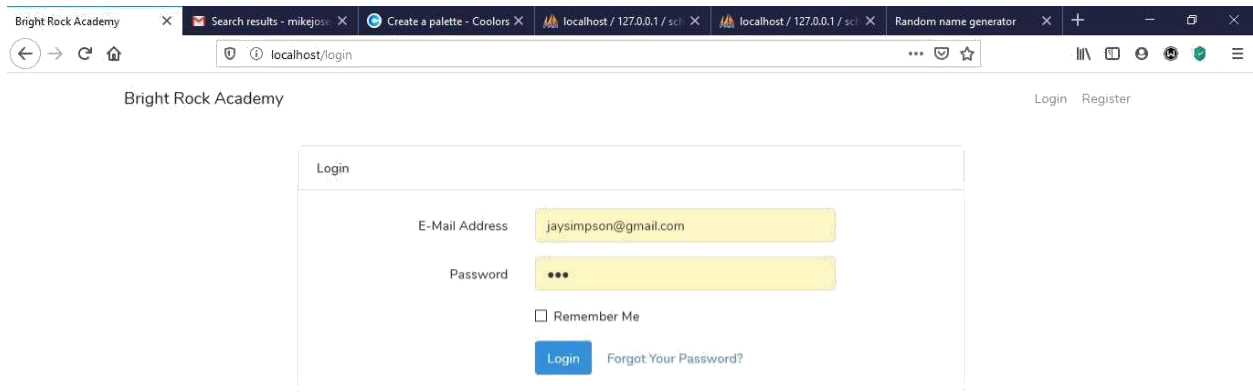
We end up with the following page, prompting you to check your email for a verification link, in order to validate your identity and proceed to your dashboard.



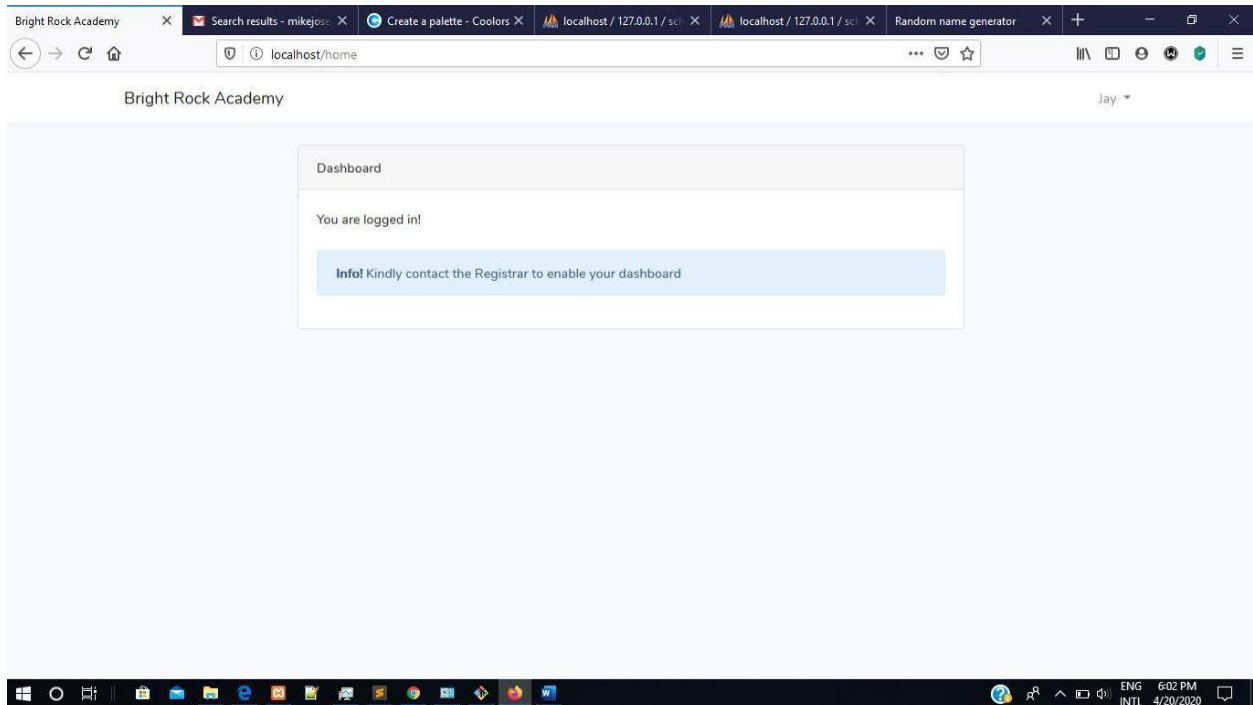
At this point, you have been successfully registered so let's go back to the Landing page and now login with the credentials or your custom credentials:

Email: jaysimpson@gmail.com

Password: 123



Next, you come across this page (Also known as the Home page)



This reads the following: “Info! Kindly contact the Registrar to enable your dashboard”
The above roadblock is important as to filter strangers from accessing the dashboard.
If it is a parent user, the registrar will grant him or her access in the registrar module.

The registrar module is where the registrar only has access to perform parent grant and deny operations to parents to unlock his/her dashboard. The registrar also admits, graduates, repeats, forwards(if a student is too smart for his/her grade) and deletes a student(s).

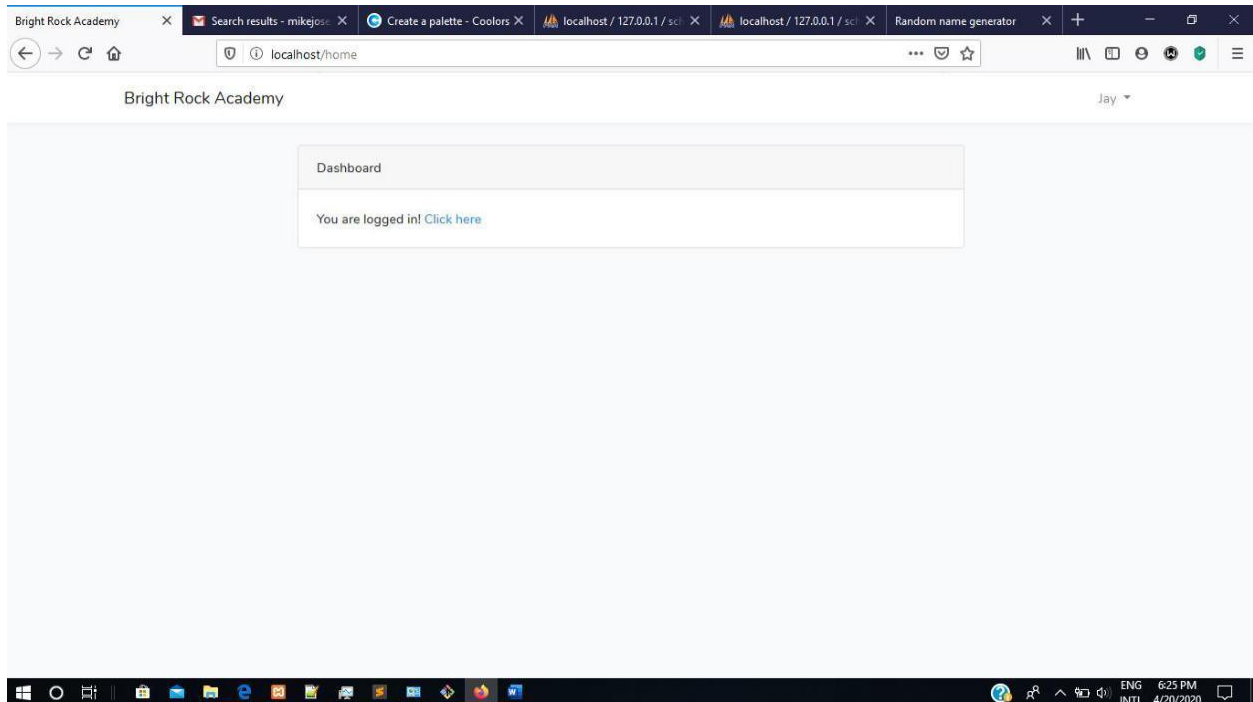
If it is staff or a teacher user, the Head Teacher will be responsible for assigning position or subject to teach by class. This will automatically unlock the dashboard of the user. All other users to the system will be null and void.

In this case, Jay Simpson will be our Head Teacher.

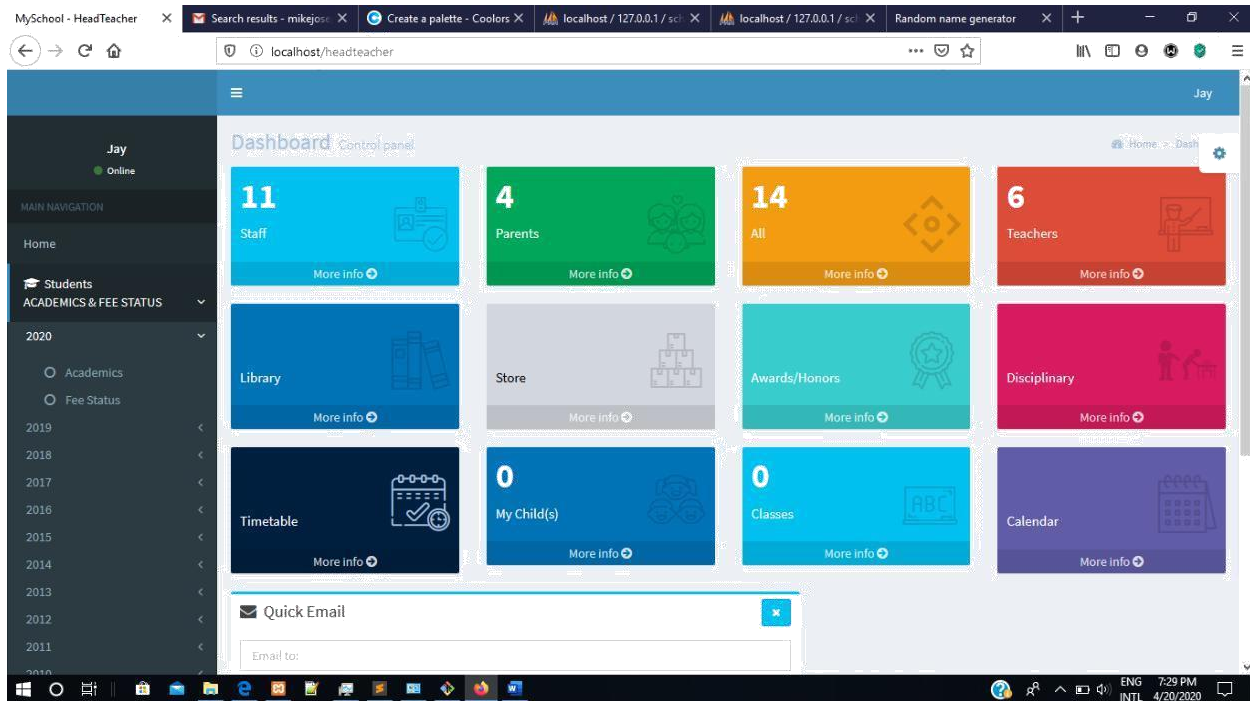
As he is the very first user in our given set of users within our simulation, there is no preceding user to activate him. Notify me to activate him from the server, then we carry on to refresh the Home page of the picture above.

NB: This would be the only time you notify me to enable a user from the server, the rest of the activations will be done independently

After refreshing the page, we find that Jay now has access to his dashboard.



Upon clicking "Click here"



We have now checked into the system. The large differently colored tabs represent Staff, Parents, All Users, Teachers and more. The big numbers on them are their respective tallies of users.

It is a surprise that there are people found in the system, but do not worry as this group of individuals is a pre-existing set for testing purposes before this demo.

On the left is a dark, drop-down menu for the students' academics and fee records going back 10 years as from the current year. Each sub menu will take us to the grades for the year selected and view the students' academics or fee records based on your selection.

The year with some ready data is 2014, Grades PP1B and PP1G.

I was compelled to start at 2014 as to simulate a gradual progression of students from 2014 to 2020 when they would be nearing their completion of the school.

2. ASSIGNING ROLES(STAFF) AND SUBJECTS(TEACHERS) TO REGISTERED USERS

Next is to open a different browser and simulate a Deputy Head Teacher user by the name Linda Matthews.

NB Opening a different browser i.e Mozilla FireFox, Google Chrome or Microsoft Edge, is of paramount significance. This is to leave the Head Teacher open in session in current browser to be able to use him to control the new user(Deputy Head Teacher) in a new session courtesy of a different browser. This avoids the situation of login off and on multiple times on the same browser between the different users

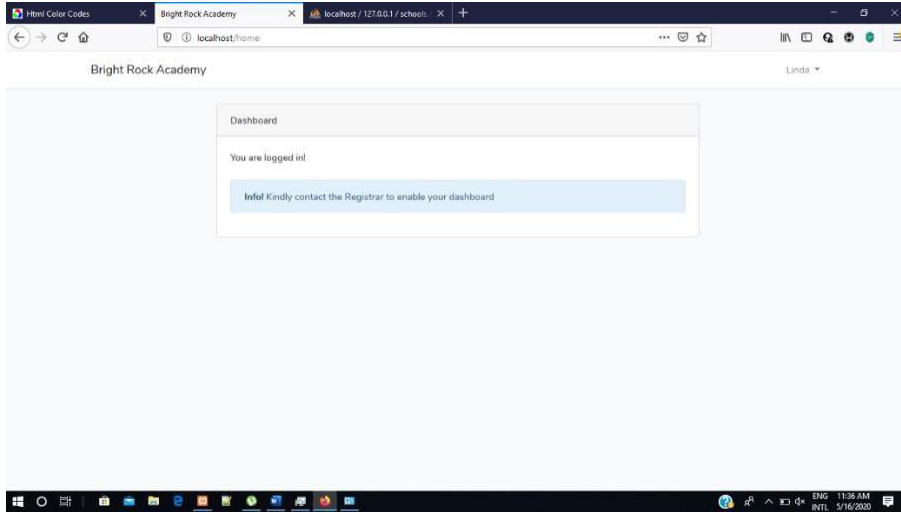
So. For Linda, I got to use the following credentials: First Name: Linda Second Name: Matthews

Phone Number: Any of local telecoms line

Email: Linda@gmail.com

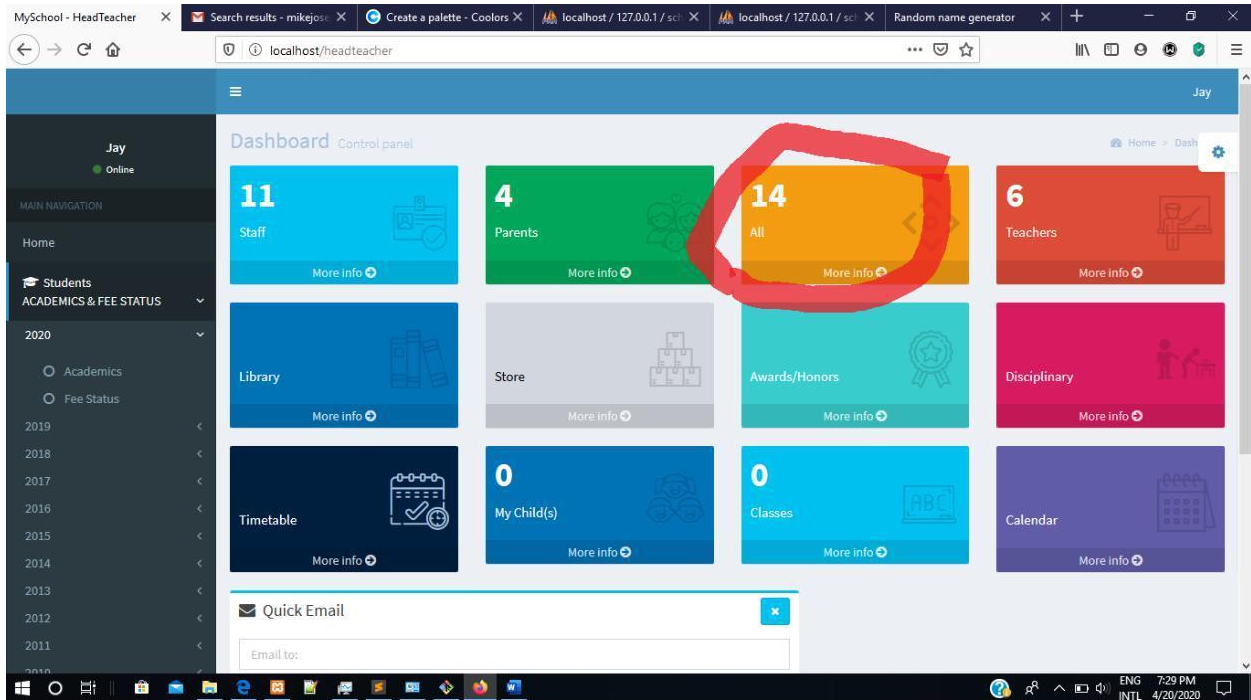
Password: 123

At this point I am confident that you know the drill of registering a user. Kindly proceed to register Linda and we meet at her Home page as pictured below:



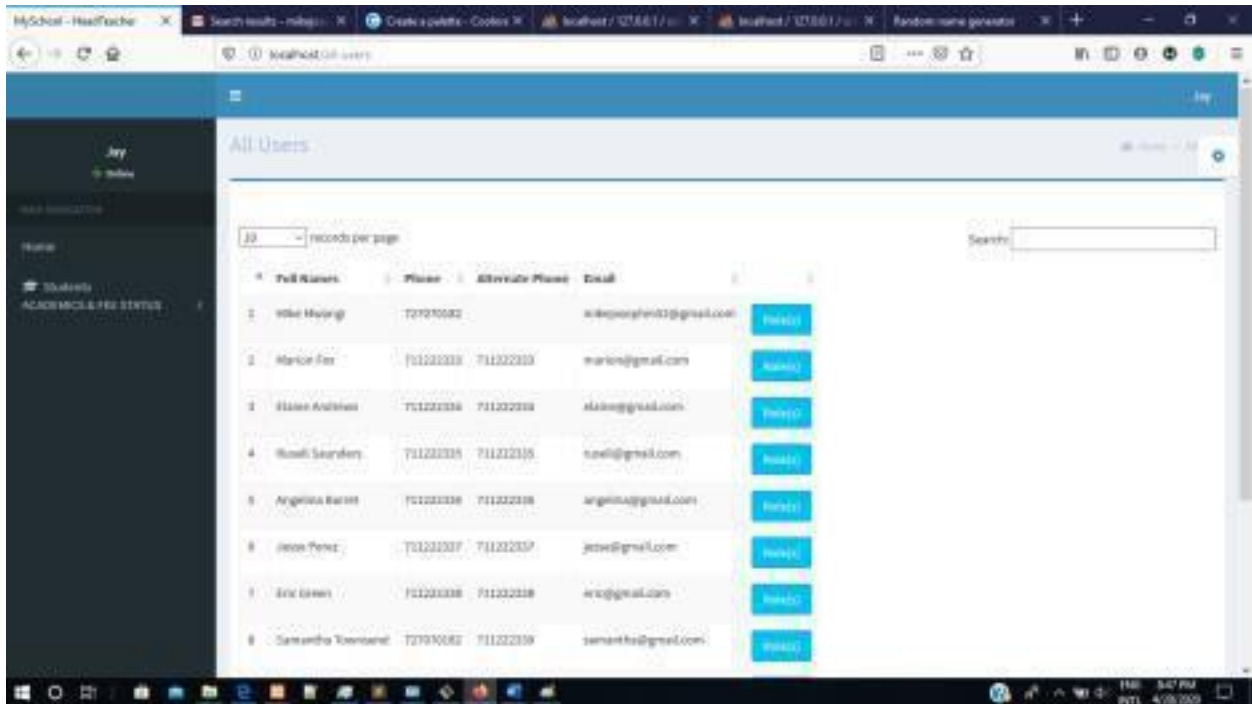
The last time I had to go to the server to activate our first user. This time round, let's switch back to Jay's browser and activate Linda from there.

Move to the "All" tabs as highlighted by the red marker and click on the More Info link

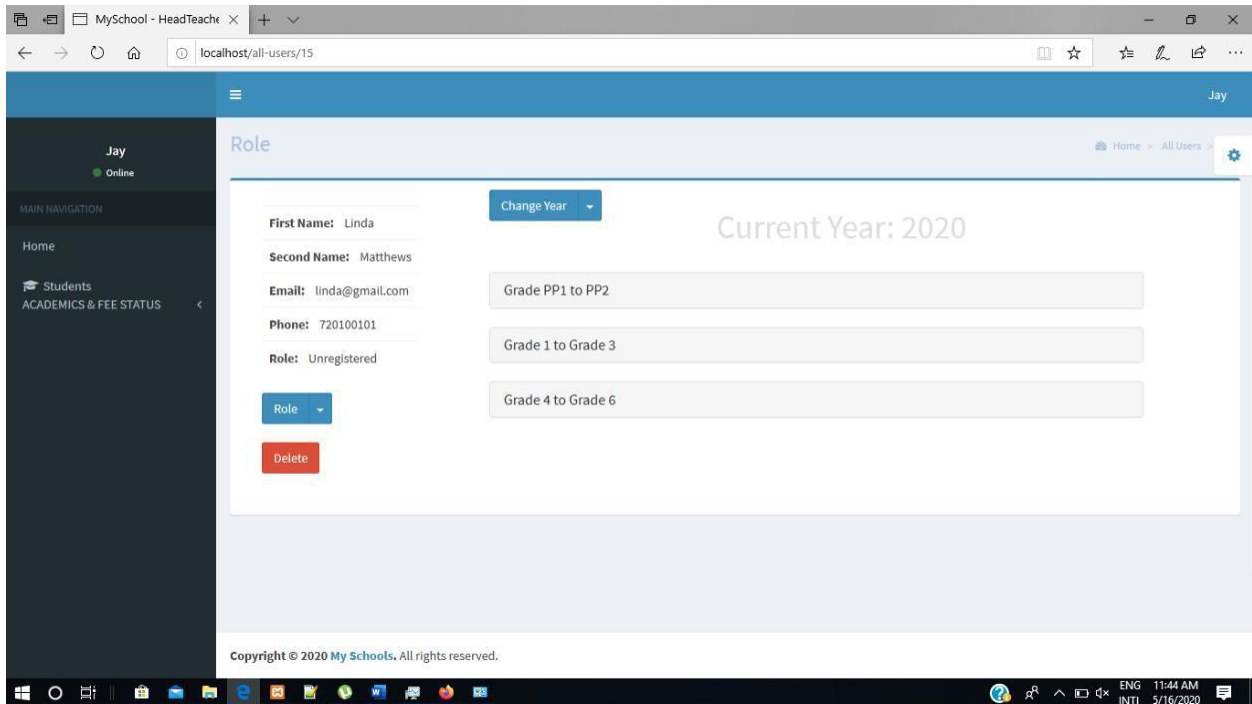


This leads us to the “All Users” page as pictured below:

Scroll down and click “Next” to view the users of the next page. We find Linda Matthews registered. Go to her record and click on the bright blue button labelled “Role”



This leads us to the following page:



The above page consists of brief details of the user of interest(Linda).

NB This page is ubiquitous for any user of interest (Teacher or Staff) selected

There is a blue drop-down button labelled "Role" right below the details.

Click on the drop down and select Deputy Head Teacher as Linda's position.

Linda is now activated to access her dashboard with Deputy Head Teacher rights.

For a little detour, the right side of the page is about assigning the user of interest the class to teach.

The "Change Year" button is important to simulate the different years of teaching for the teacher moving up to the current year. There are already four students, in the pre-existing data. Two in Grade PP1B and two in GradePP1G for the year 2014 with their pre-existing teachers for respective subjects.

Let's assume that their teachers will remain the same even for the following year which is 2015, and still

teach the same subjects, click on the drop-down of the "Change Year" button and select 2016.

Then let's click on the "Grade 1 to Grade 3" tab and click on Literacy 1G.

Then let's click on the "Grade 1 to Grade 3" tab and click on Literacy 1G.

Repeat the same for Literacy 1B, do not forget to change year as it will automatically select

current year and the simulation will not work for 2016.

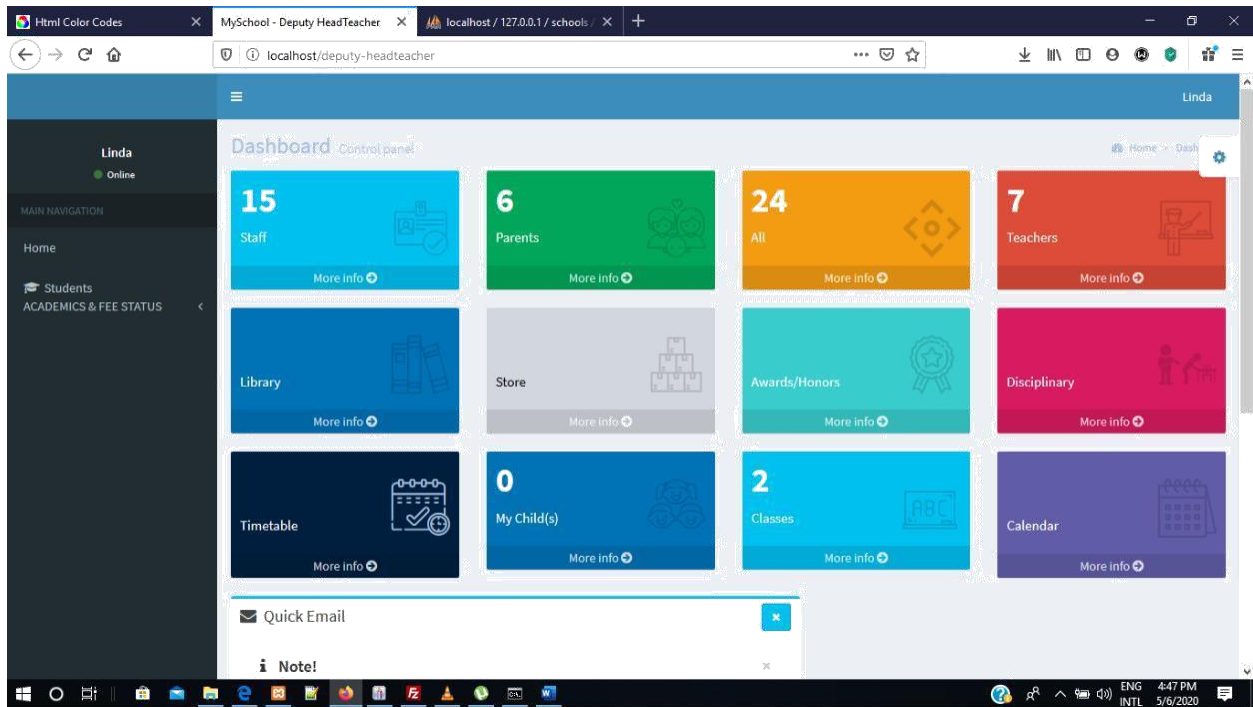
We have now made Linda Matthews the Deputy Head Teacher of Bright Rock Academy and teaches Literacy in Grade 1G and Grade 1B for the year 2016.

Important to also note the new tab that presents at the bottom of the right section of the page, which right before assigning Lara as Deputy Head Teacher was absent as at that time Linda was yet to be a Deputy Head Teacher. The tab reads "Grant/Deny Privileges".

Its sole work is to grant or deny the Deputy Head Teacher control rights on the diverse areas of the system. Each of its button literally represents a button in the indicated area of the system. Clicking the button determines whether to hide or show it to the Deputy Head Teacher thus governing his/her control in its respective area.

Let's now switch over to Linda's dashboard on the browser with her session.

Refresh her Home page and click on "Click here" link.



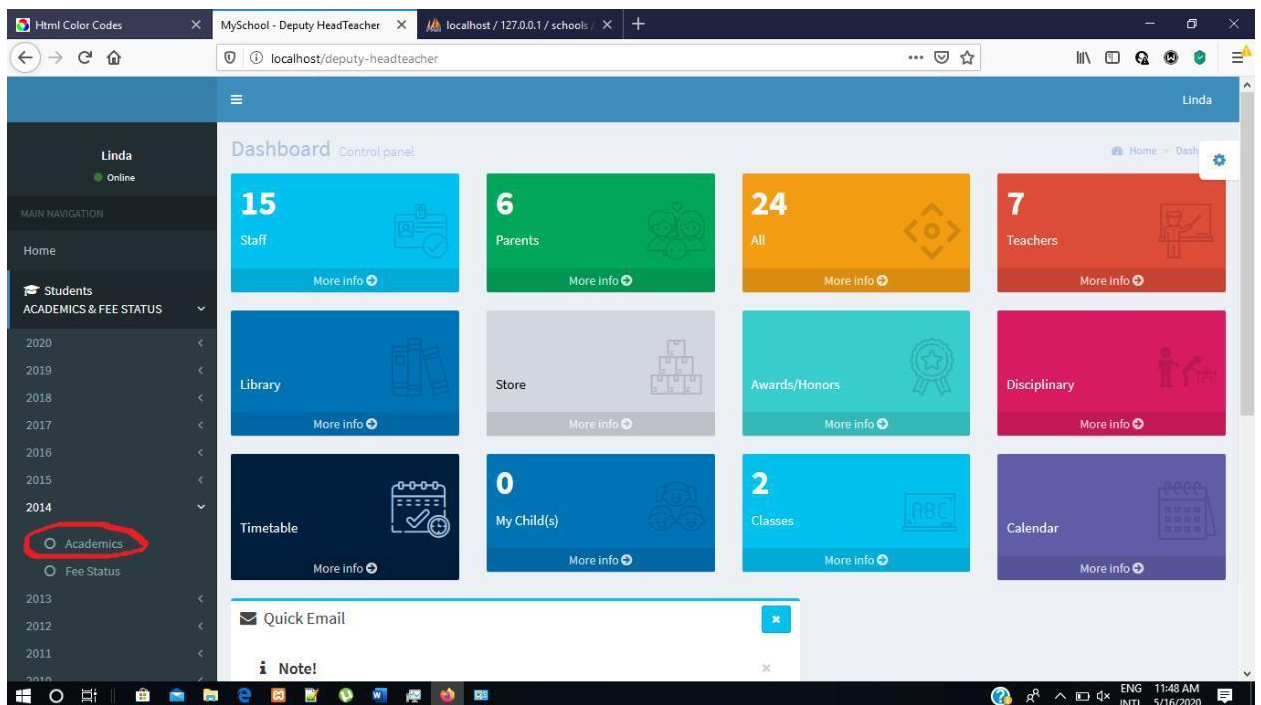
We find that the Deputy Head's dashboard is identical to the Head Teacher

3. EXPLORING THE MODULES

At this point, we are set to go through the various modules.

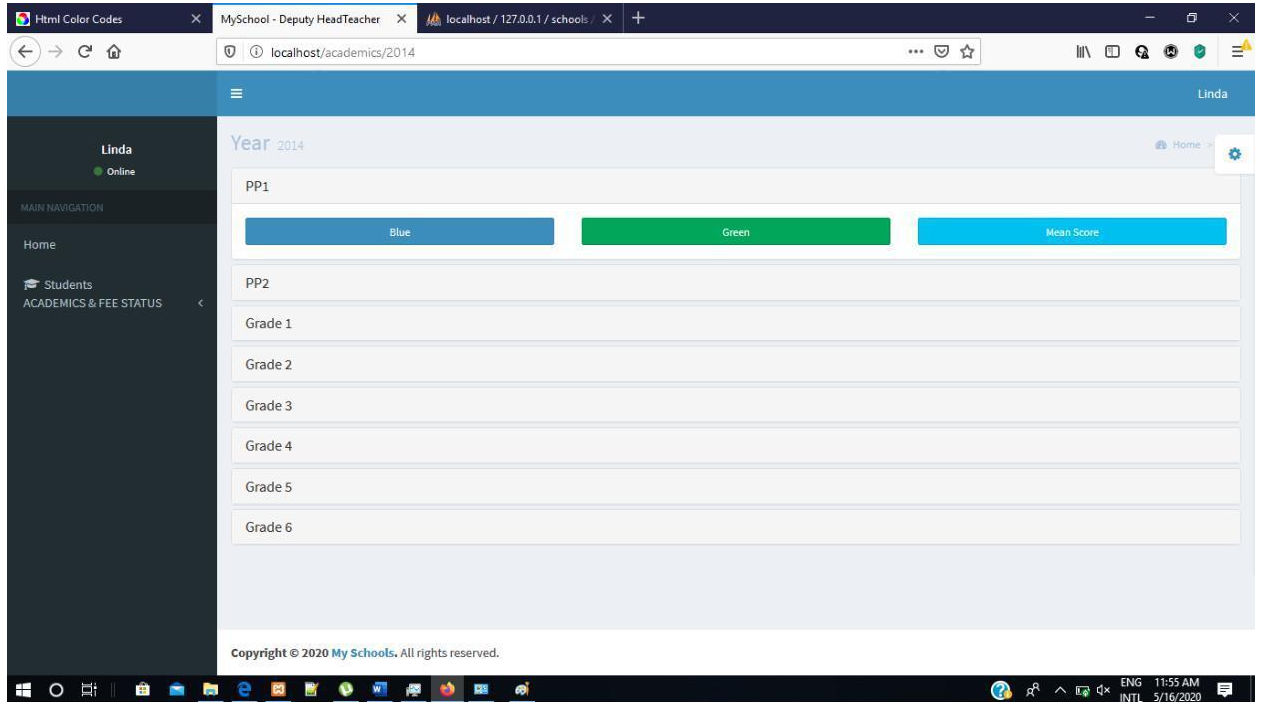
i. **Academics**

Click on the sub-menu circled in a red marker. Ensure that you have selected the year 2014

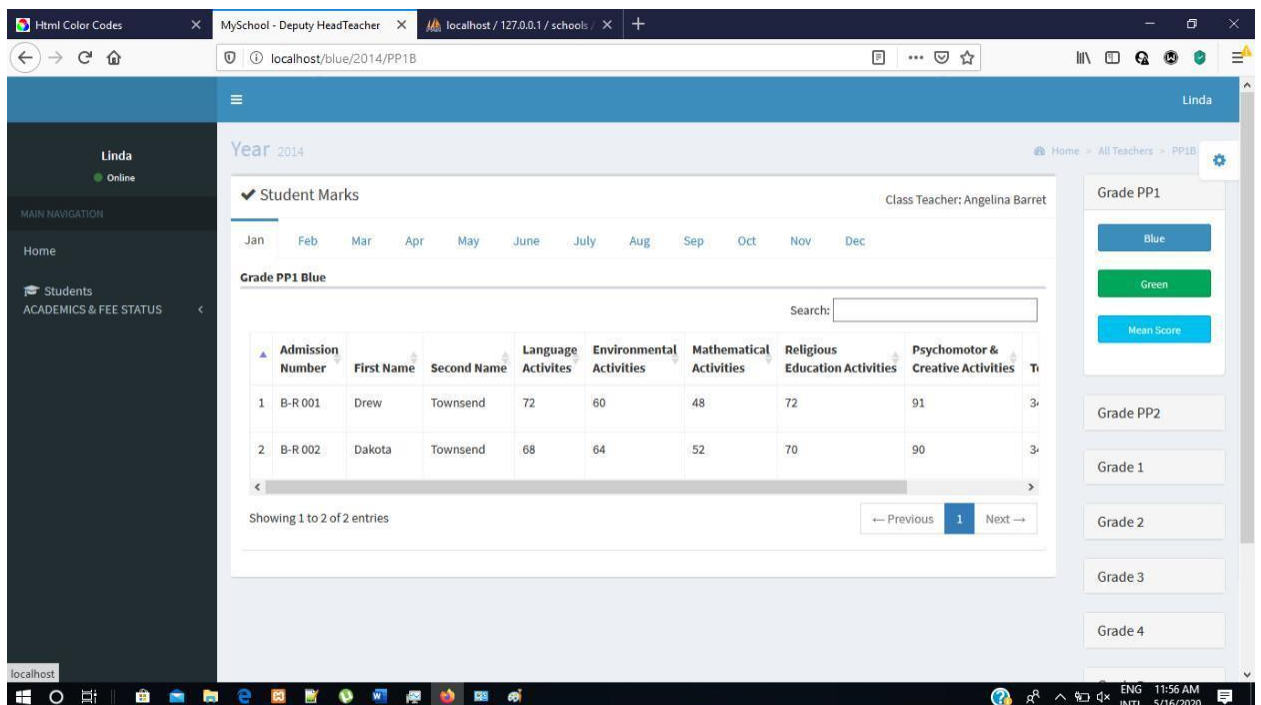


This leads us to the following page, presenting the different grades and streams assuming they were two per grade. Let's also assume that the two streams are "Blue" and "Green".

The light blue tabs on the far right are to match mean scores of the two streams, represented in a bar graph.



Go to Grade PP1 and click the Blue tab for the blue stream.



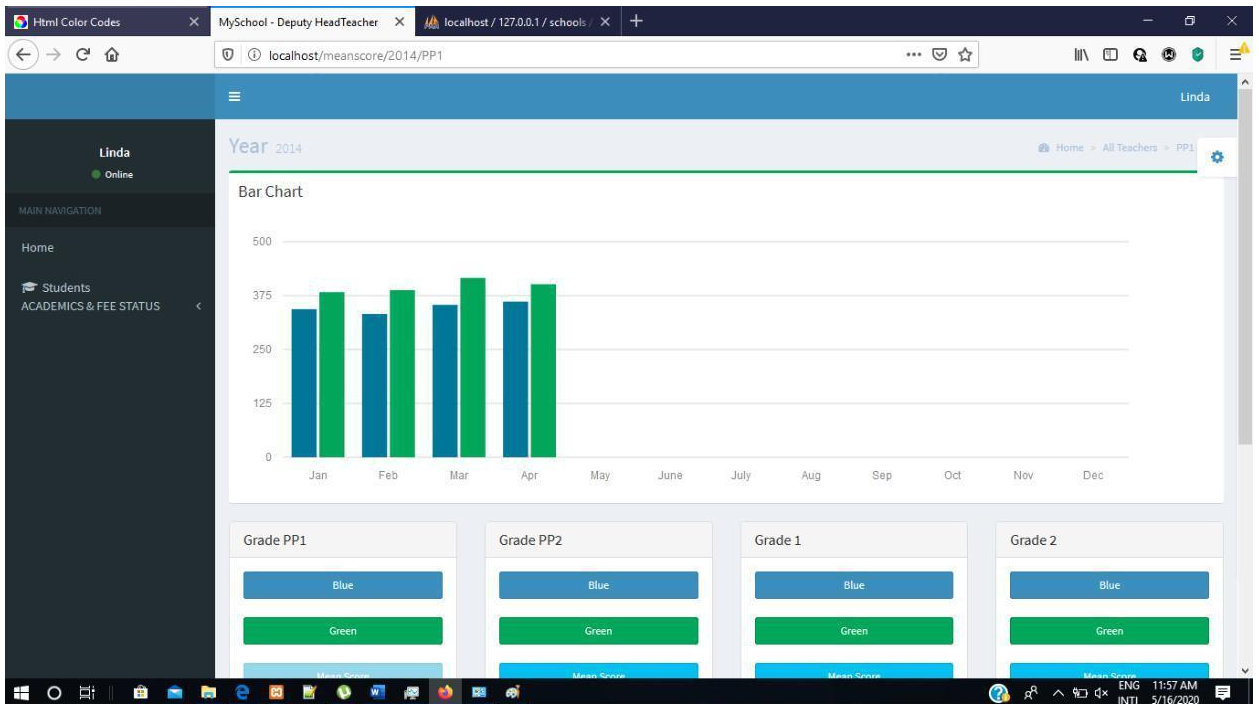
Here we find two students, namely Drew and Dakota Townsend. For the lack of imagination, let's assume that they are twins admitted by the Registrar.

This begs the question as to why we did not start admissions of student first. Observing the flow of first exploring the Deputy/Head Teacher module, let us use pre-existing data and later come to register our very own students, after registering a user as our Registrar in line with the next major module in the table of contents.

The marks tabled throughout the whole year are those input by Teachers, whom are also pre-existing, just as we have made Linda Literacy teacher in the "All Users" section.

Scrolling far right is a button "Remarks" giving further details such as remarks regarding the student's performance and a stamp indicating the teacher who gave the marks and commented on the remarks.

Next click on the "Mean score" light blue button on far right of the page. Ensure that you are consistent with the Grade PP1.



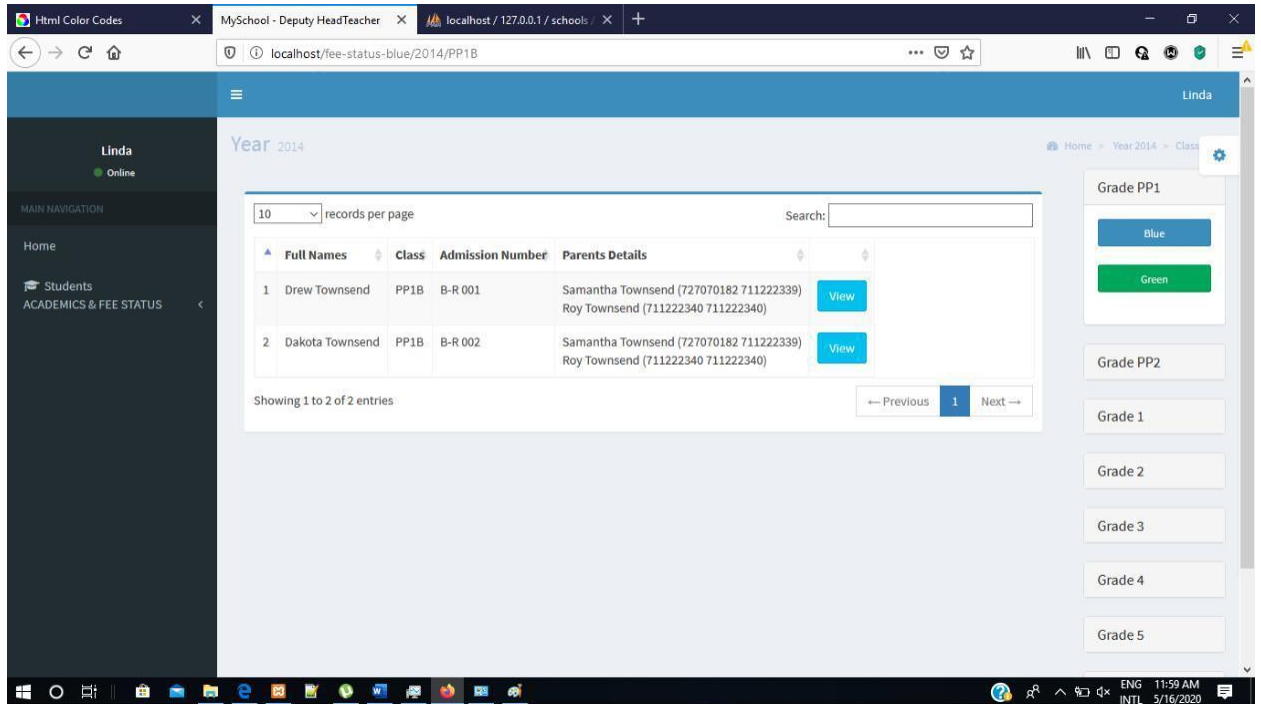
This page gives an overview of the performance of both streams head-to-head throughout the year.

At this point we have exhausted the academic aspect of students when put in their streams for the whole year, and also had a comparative analysis of their streams against each other with regards to their mean scores.

ii. Fees

Next, go to the far left of the page and click on the "ACADEMICS & FEE STATUS" drop-down button. Select 2014 and select "Fee Status" link.

This takes us to a page for choosing the grade and stream. Choose Grade PP1 and stream Blue.
 This takes us to the following page:

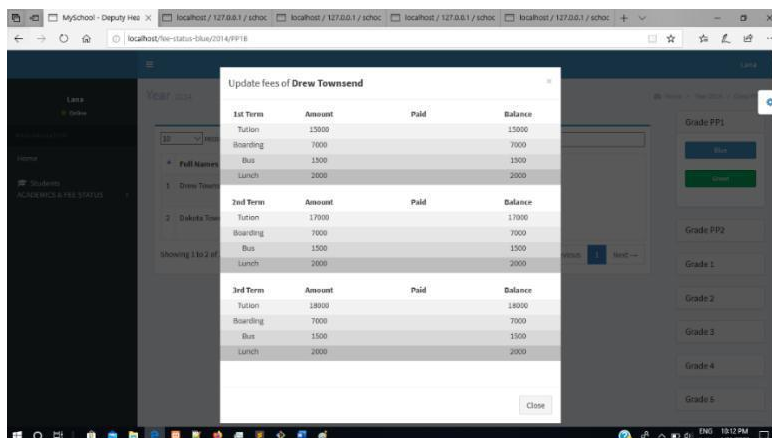


This page shows the same two students, Drew and Dakota consistent with the year and grade. It shows further personal details being the Parents' names and mobile number.

This is good for validating the student's parents in the event a parent comes to discuss fee arrangements with the Head Teacher.

The question that comes up is how the parents' details were captured and presented on this page. That will be seen in the Registrar module as we select the parents from the list of registered users per every student in the students' page.

Next, click on the "View" light blue button to view the fee status of a student for the three terms throughout the year.



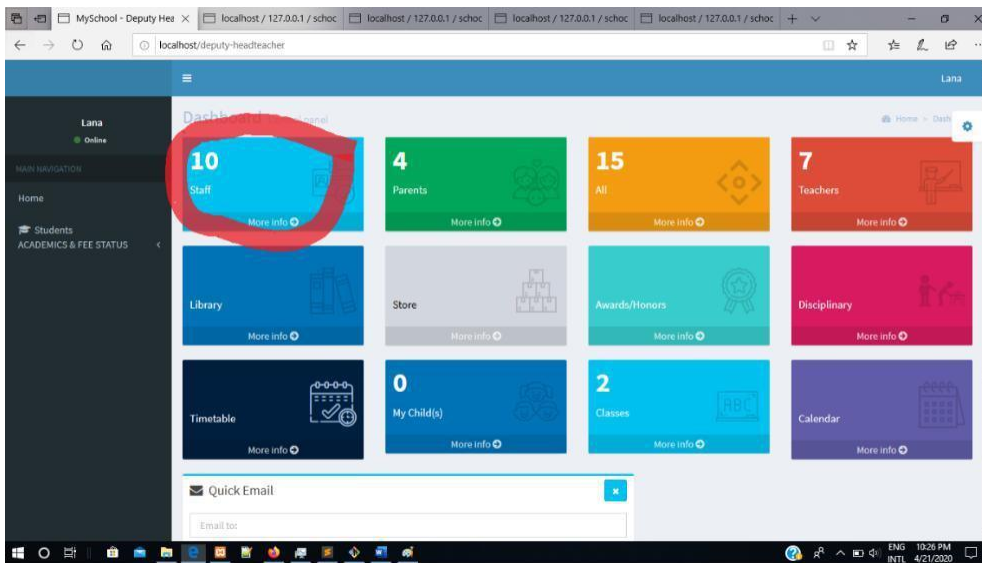
The figures “Amount and Paid” are input by the bursar. We shall create the bursar user and we can come back to this page to confirm that the figures input is consistent. The “Balance” field automatically adjusts itself as the difference between Amount and Paid

iii. Staff

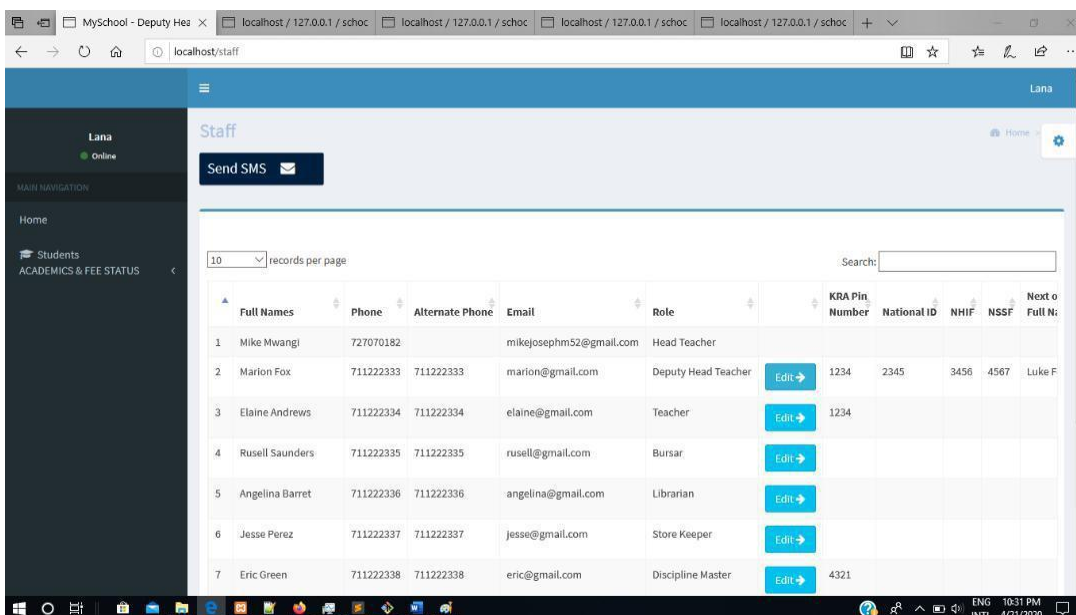
Let’s take a look at a scenario of pre-existing staff (Registrar, Bursar, Librarian, Storekeeper, Discipline Master). Go back to the dashboard by clicking on the “Home” link at the far-left.

The “Home” links are universally resolved to direct us back to the dashboard at any given location in the system.

When on the dashboard, click on the tab circled by the red marker as below:



This leads us to the following page:



The above page is a data set of test individuals in the system holding diverse positions. The edit button is particularly for updating other details of the user (KRA Pin, National ID, NHIF, NSSF, Next of Kin First Name, Next of Kin Second Name, Next of Kin Phone Number, Next of Kin Alternate Phone Number)

Above the entire table of user records, is a dark blue button "Send SMS". This brings up a small window of sending an SMS to select staff.

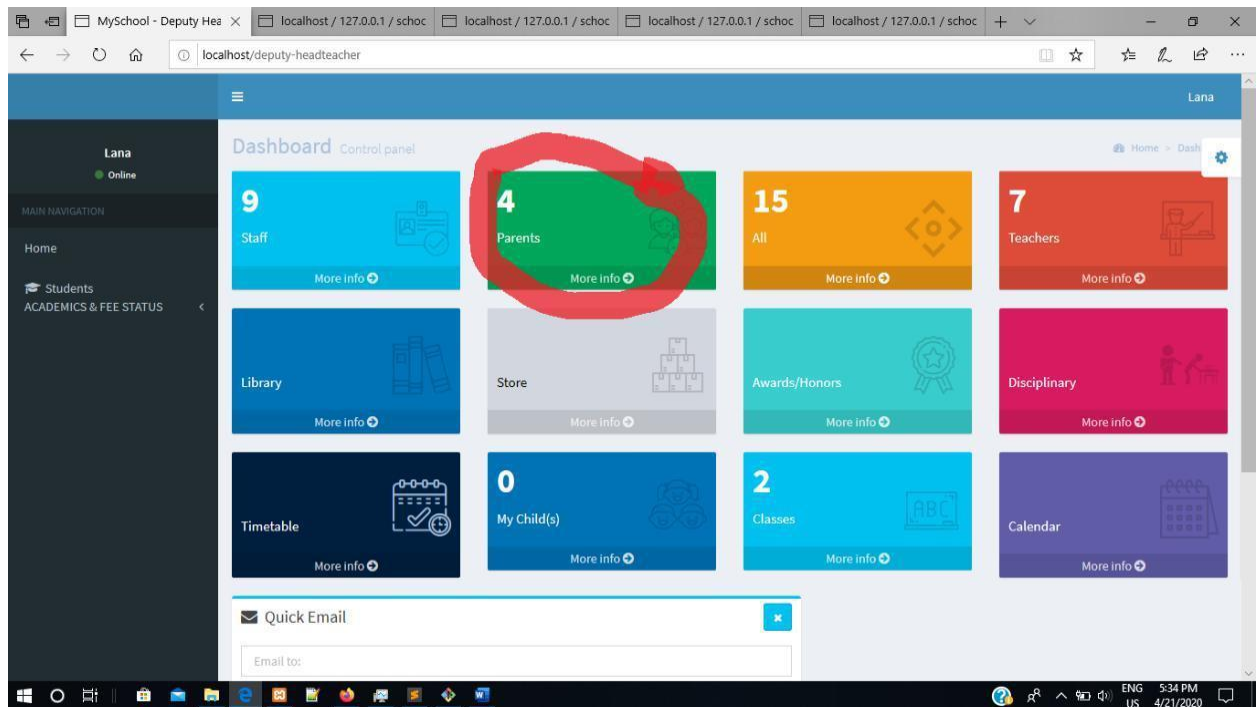
NB The normal rate of sending text on this platform is Kshs 0.80. The Sender of the text will bear a name "AFRICASTKNG". To make it reflect the school name, a charge is imposed which will discuss discretely but not on this guide.

So far so good with the Staff module.

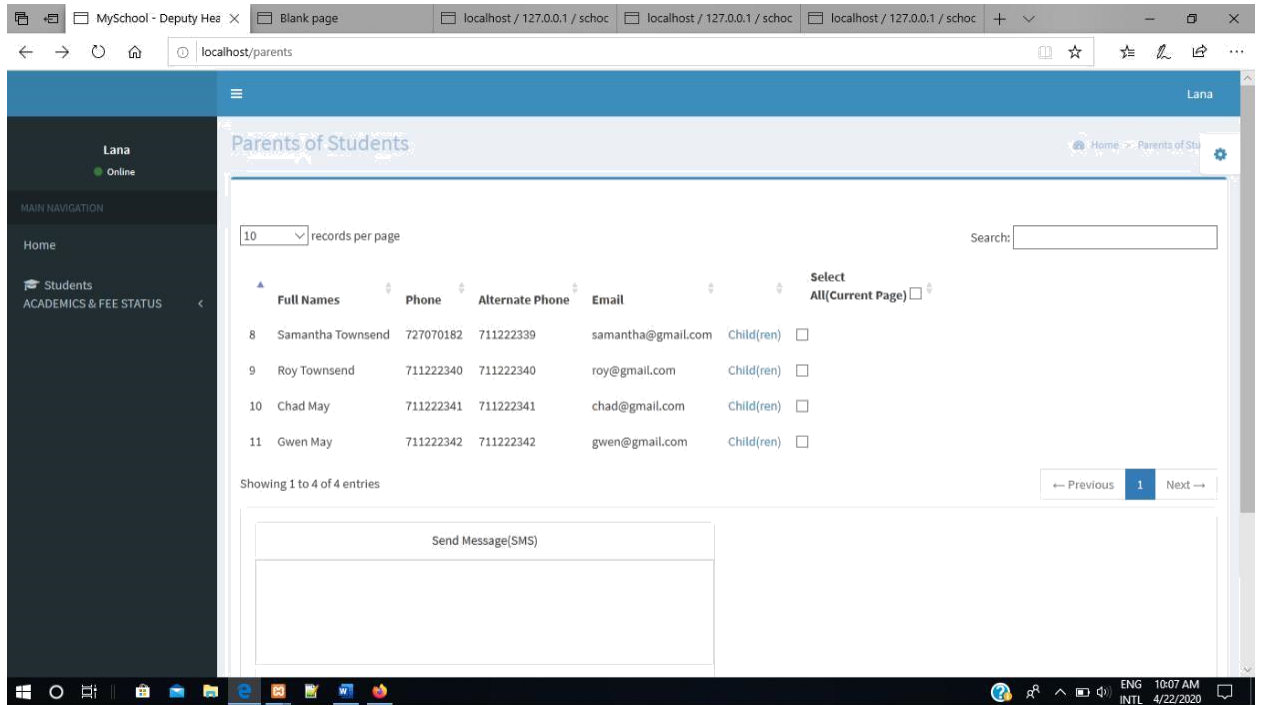
iv. Parents

Let's go to the Parents module. Go back to the dashboard.

Next, click on the Parents tab circled by a red marker as shown below:



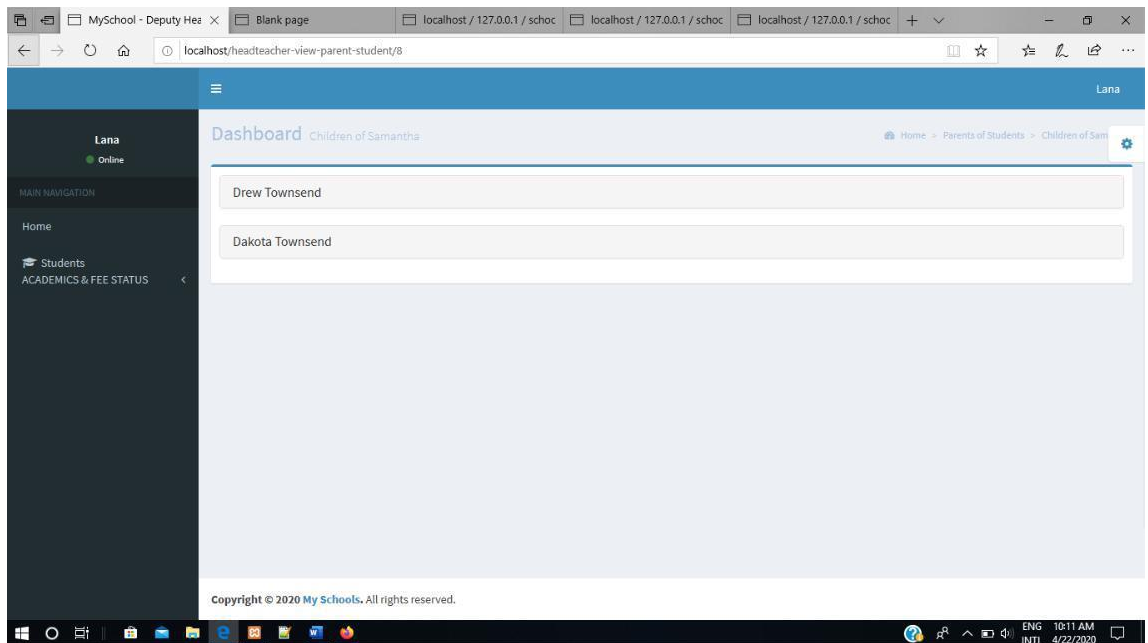
The page that follows is a representation of all the current parents in the system. As for now they are just four as viewed in the picture below:



Roy and Samantha Townsend are parents to Drew and Dakota Townsend.
 Chad and Gwen May are parents to Tyler and Taylor May.

Note the "Send Message(SMS)" section underneath. SMS can be sent to select parents from the checkboxes once again as was in the case for staff

Click on the Child(ren) link alongside Samantha's record.
 This brings the following page bearing only Samantha's children:



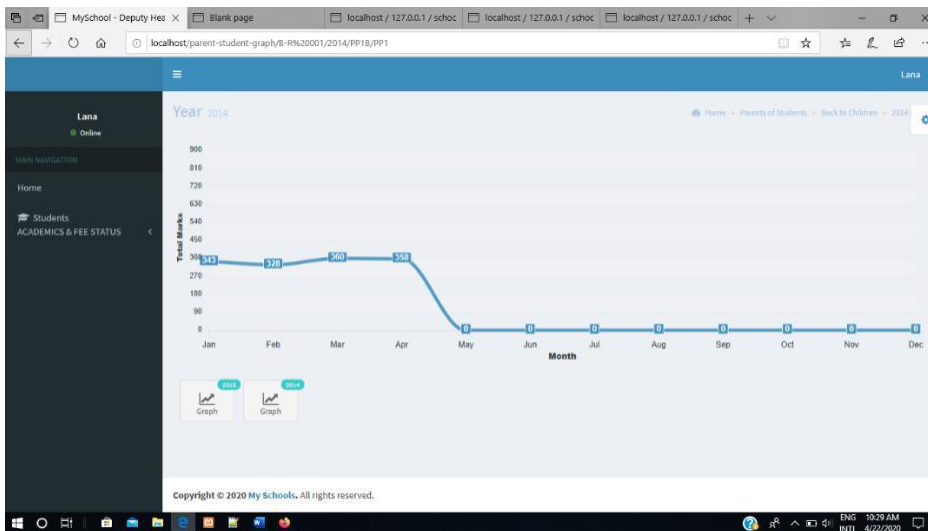
To view Drew's information, click on Drew Townsend.

There are drop downs of exclusive and detailed information of Drew on Academics(By the years been in school), School Fees(By the years been in school), Library(Books borrowed), Stores(Items borrowed either for sport or other use), Awards, Honors and Disciplinary cases. Each of the sub-section are records input by respective staff and teachers for the "Academics" tab. A click on Academics 2014 displays the following:

The screenshot shows the Lana dashboard for a student named Drew Townsend. The dashboard includes a sidebar with navigation options like Home, Students, and Academics & Fee Status. The main content area displays student details such as Admission Number (B-R 001), First Name (Drew), Second Name (Townsend), and Class. Below this, there are sections for Library, Stores, Awards & Honors, and Disciplinary. The Academics section is active, showing a table of performance data for the year 2014. The table has columns for Language Activities, Mathematical Activities, Environmental Activities, Psychomotor and Creative Activities, Religious Educational Activities, and Total. The data points are: January (72, 48, 60, 91, 72, 343), February (60, 52, 62, 80, 74, 328), March (77, 58, 68, 82, 75, 360), April (70, 60, 64, 92, 72, 358), and May (0, 0, 0, 0, 0, 0). A 'Graph' button is visible on the right side of the table.

	Language Activities	Mathematical Activities	Environmental Activities	Psychomotor and Creative Activities	Religious Educational Activities	Total
January	72	48	60	91	72	343
February	60	52	62	80	74	328
March	77	58	68	82	75	360
April	70	60	64	92	72	358
May	0	0	0	0	0	0

Special mention to the "Graph" button branded with a graph icon on the far right. This takes us to representation of Drew's annual performance on a bar graph.



I would wish to go back to Drew's page by clicking on the grey quick link "Back to Children" on the top right. But then there is a small navigation bug that is awaiting to be addressed.

So, let's go to Home link on the far left and click on Parents tab, select Samantha and get back to Drew's page. Then click on School Fees 2014

The screenshot shows a web application interface for a Deputy Head Teacher. The left sidebar contains navigation options: Home, Students, ACADEMICS & FEE STATUS, Library, Stores, Awards & Honors, and Disciplinary. The main content area displays student information for Drew Townsend (Admission Number: B-R 001) and a table of School Fees for 2014.

	Term 1			Term 2			Term 3		
	Amount	Paid	Balance	Amount	Paid	Balance	Amount	Paid	Balance
Tuition	15000	5200	9800	17000	0	17000	18000	0	18000
Boarding	7000	5500	1500	7000	0	7000	7000	0	7000
Lunch	2000	0	2000	2000	0	2000	2000	0	2000
Bus	1500	0	1500	1500	0	1500	1500	0	1500

This is a reflection of Drew's Fee Status for the year 2014.

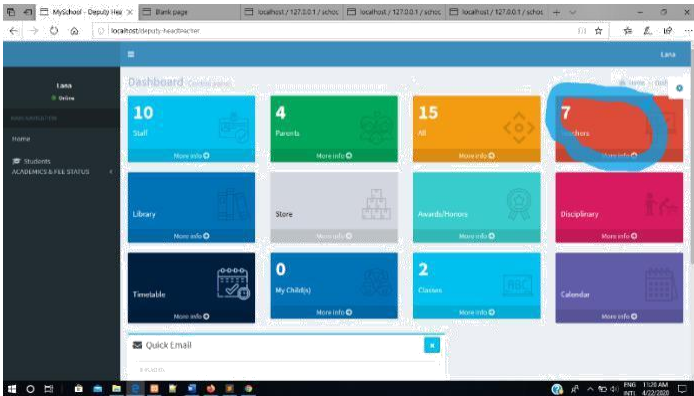
On the left section of the page is the affairs of Drew with reference to books borrowed, items borrowed, awards won, honors accorded and disciplinary cases. This wraps up our view of Parents and the progress of their children.

v. All Users

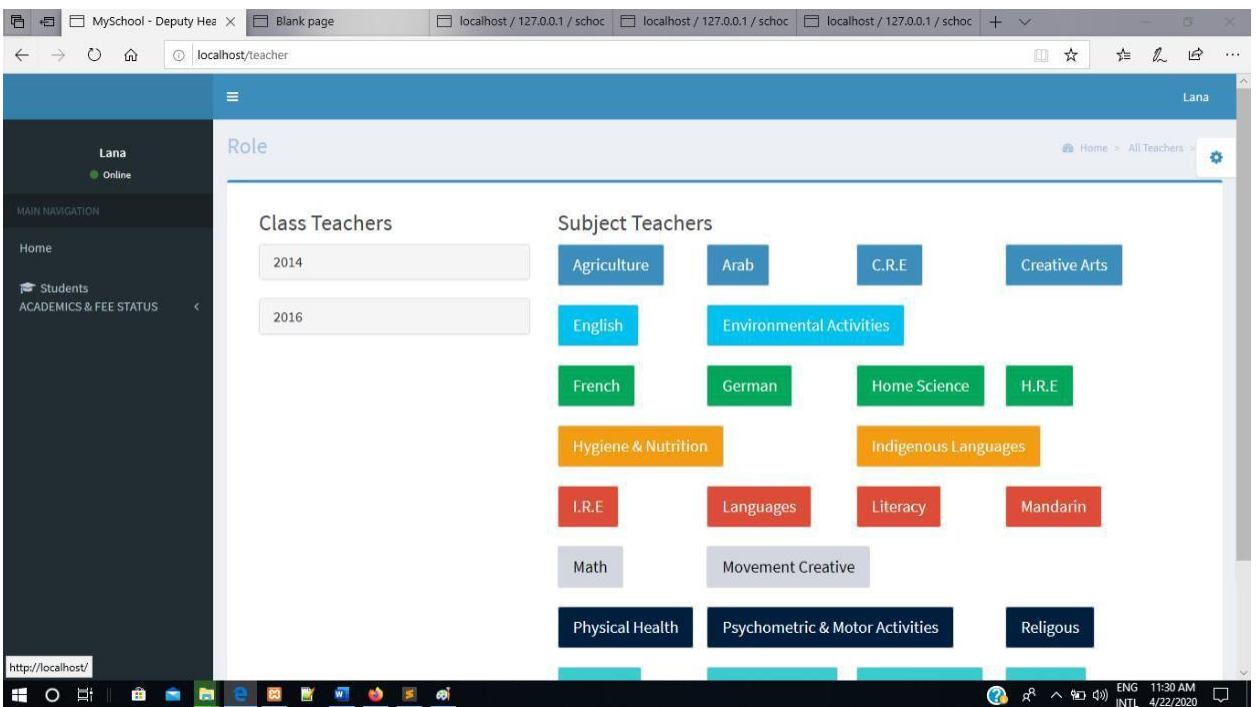
This module is the main controller of appointing positions to staff, assigning subjects and class teacher roles to teachers... alike in page 12 of Head Teacher's module. The only difference of this is the "Grant/Deny Privileges" tab present in the Head Teacher's page and absent in Deputy Head Teacher's as a matter of superiority in administration rights. This module extends great granularity of control as explained in page 14.

vi. Teachers

Let's now go to the Teachers module and find them through the streams and subjects as arranged. Go to the dashboard and click on the Teachers tab circled by a blue marker as illustrated below:

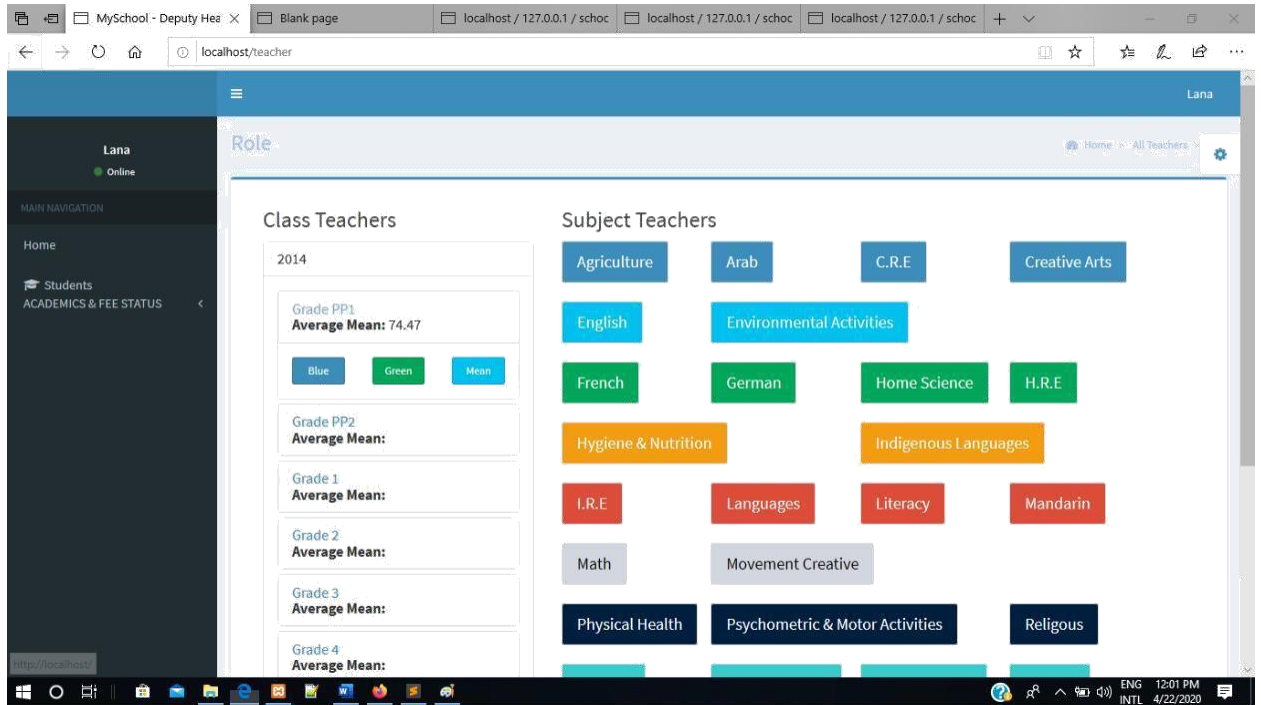


This takes us to the following page:



Next click on the year 2014 and Grade PP1.

This displays the aggregate mean score of the entire grade (Mean score of PP1B & PP1G)
 Clicking on either of the streams takes us to the tabular view of their students as we covered in the Academics section earlier on page 16.



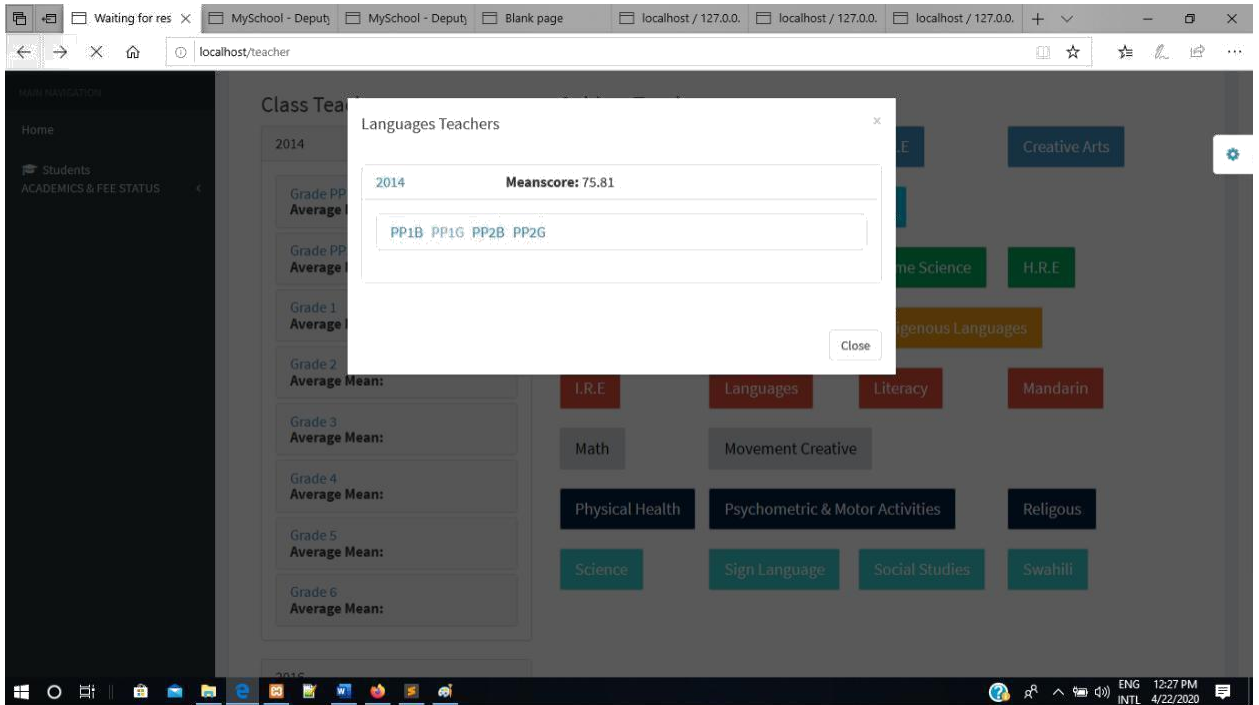
Let's move to the right side of the page, representing the subjects, year, and stream respectively.

The subjects as displayed are based on the new CBC curriculum stipulated by the Kenya Institute of Curriculum Development as found in the link: <https://kicd.ac.ke/wp-content/uploads/2017/10/CURRICULUMFRAMEWORK.pdf>

In the case of PP1B, Drew and Dakota have taken five subjects namely:

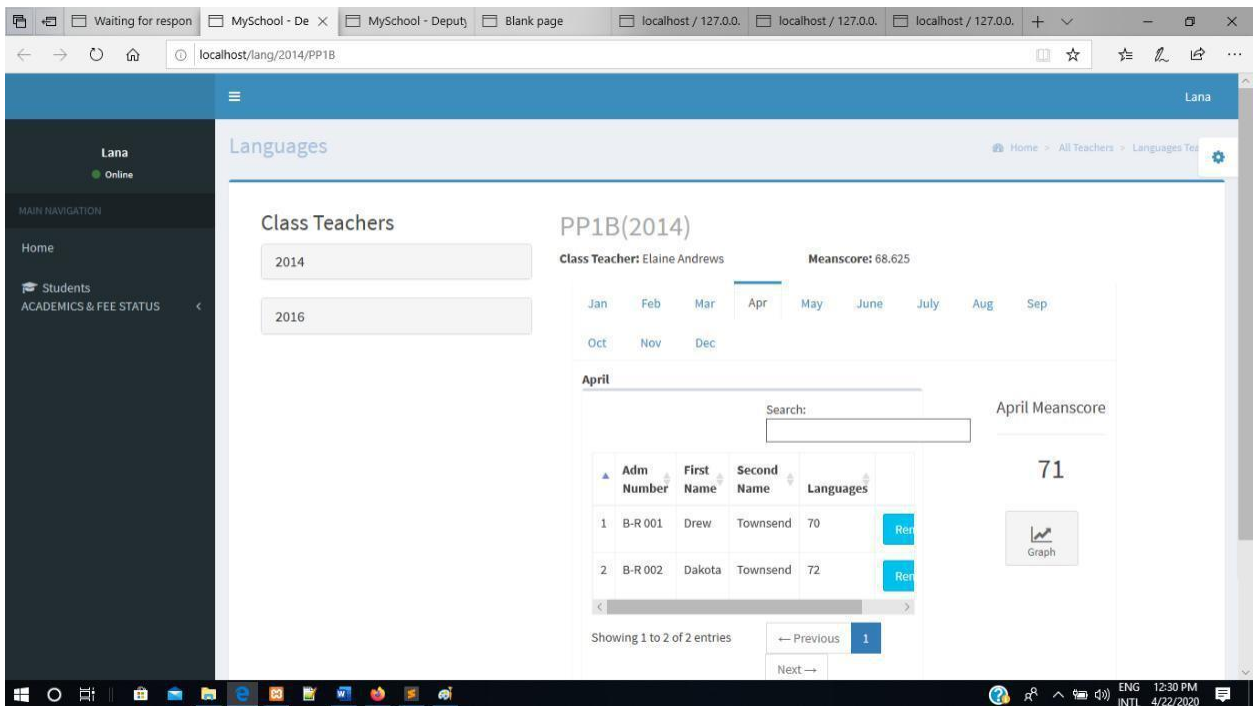
- Language Activities
- Mathematical Activities
- Environmental Activities
- Psycho-motor and Creative Activities
- Religious Education Activities

Let's click the first subject Languages on the "Languages" tab



This displays the subject's mean score of the entire school of the twelve streams for the selected year.

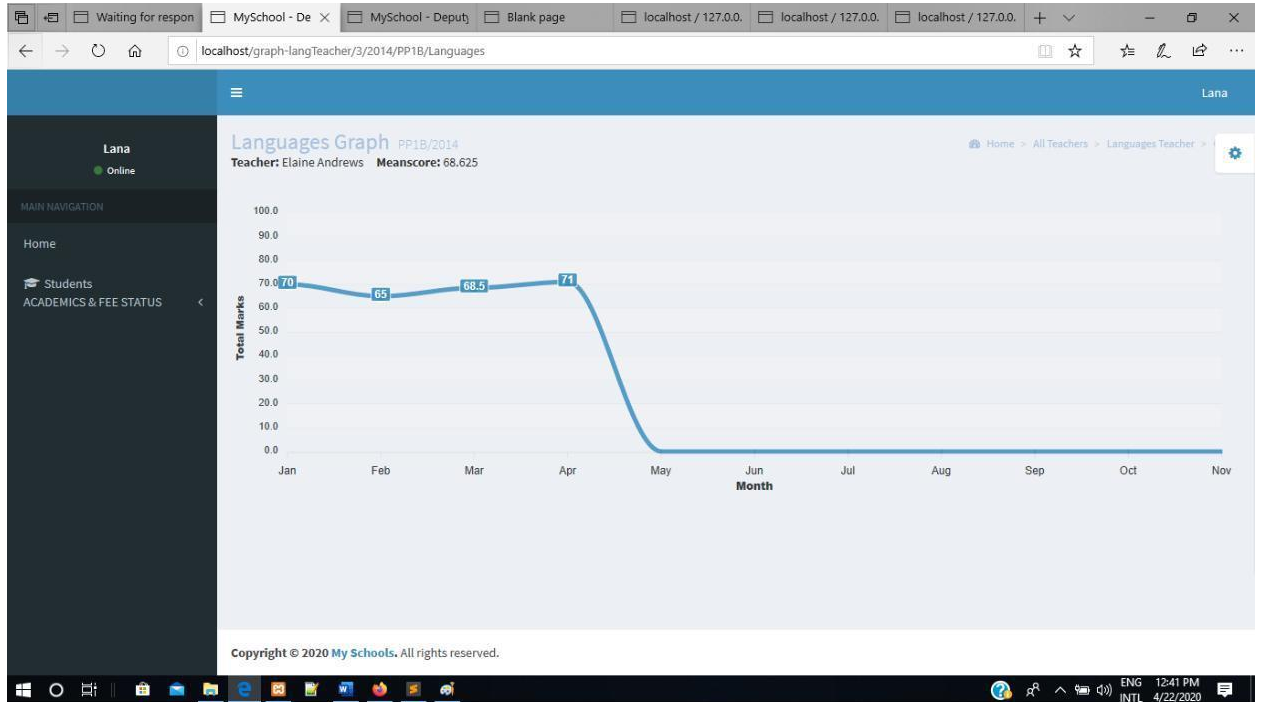
Click on PP1B



The above is tabulated marks of Drew and his twin Dakota solely for Languages subject.

The marks are categorized by month. At the top of the table is the name of the teacher in full and the mean score of the selected stream for that year.

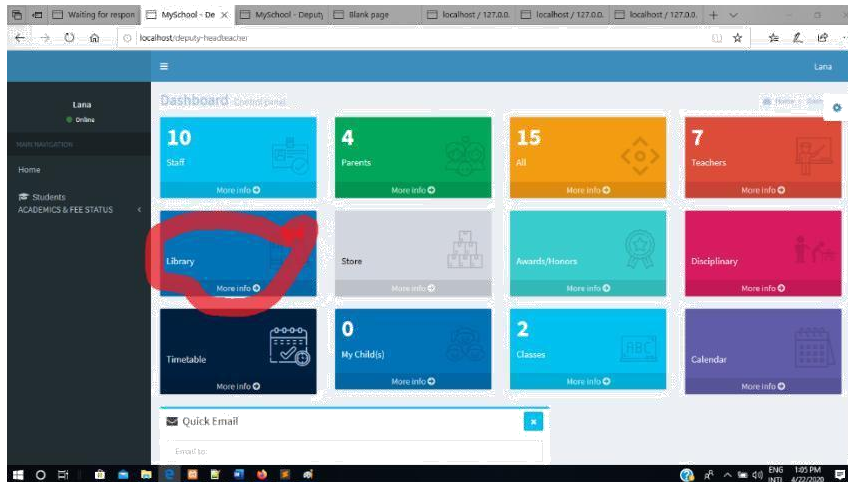
The “Graph” button on the far right leads to a page representing the annual stream’s performance on a line graph.



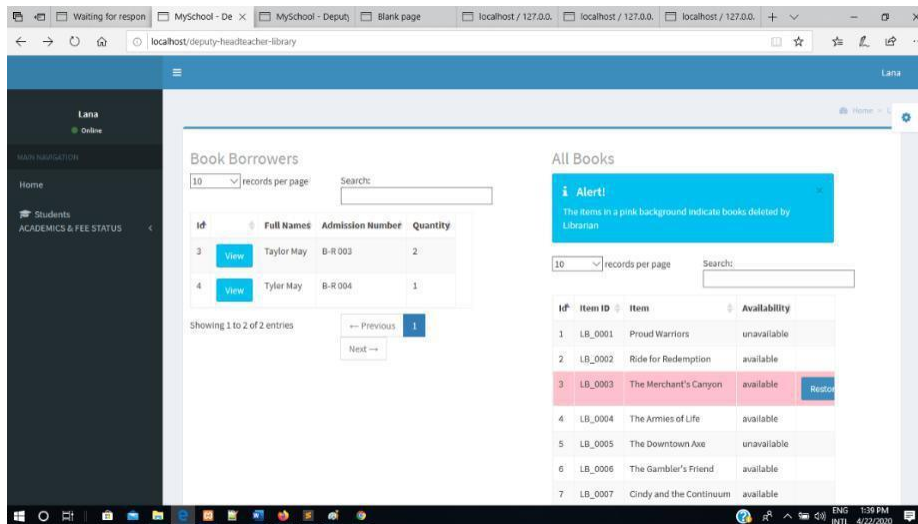
At this point, we have exhausted all that pertains to the students’ academic affairs from the Deputy Head Teacher. We can say the same for the Head Teacher as the dashboards of the two are identical, except for the control rights for the Deputy Head Teacher in the Head Teacher’s dashboard.

vii. Library

Let’s take a look at the library module. Go to the dashboard and click the “Library” tab circled by the red marker displayed below:



We find the following page which is a record of all the books in the library on the right-hand side and all the book borrowers on the left-hand side.



The Alert notification in the Books section, is about books that the librarian deleted from the system, but still will be visible in pink by the Deputy and Head Teachers. This is for accountability purposes to curb embezzlement of school property.

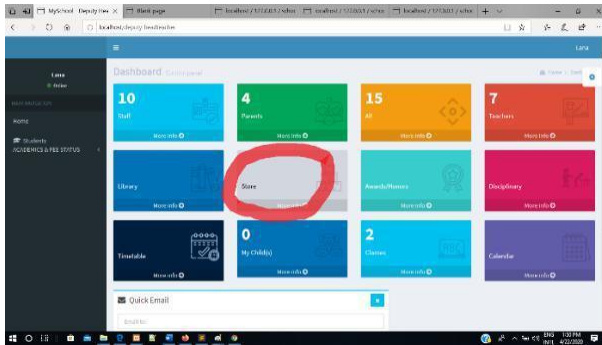
We can test this later when we form our librarian user and attempt to delete a book from his dashboard. Coming back here, we will find it flagged in pink. The Deputy and Head Teachers have the capacity to restore or permanently delete it from the system using the “Restore” and “Delete” buttons at the end of each book record.

The left hand-side displays the book borrowers in order from the one with the most books borrowed to the least. For each of the borrower, click the “View” button to view the book along with its Book ID. In the library case the two students are Taylor and Tyler May of PP1G 2014.

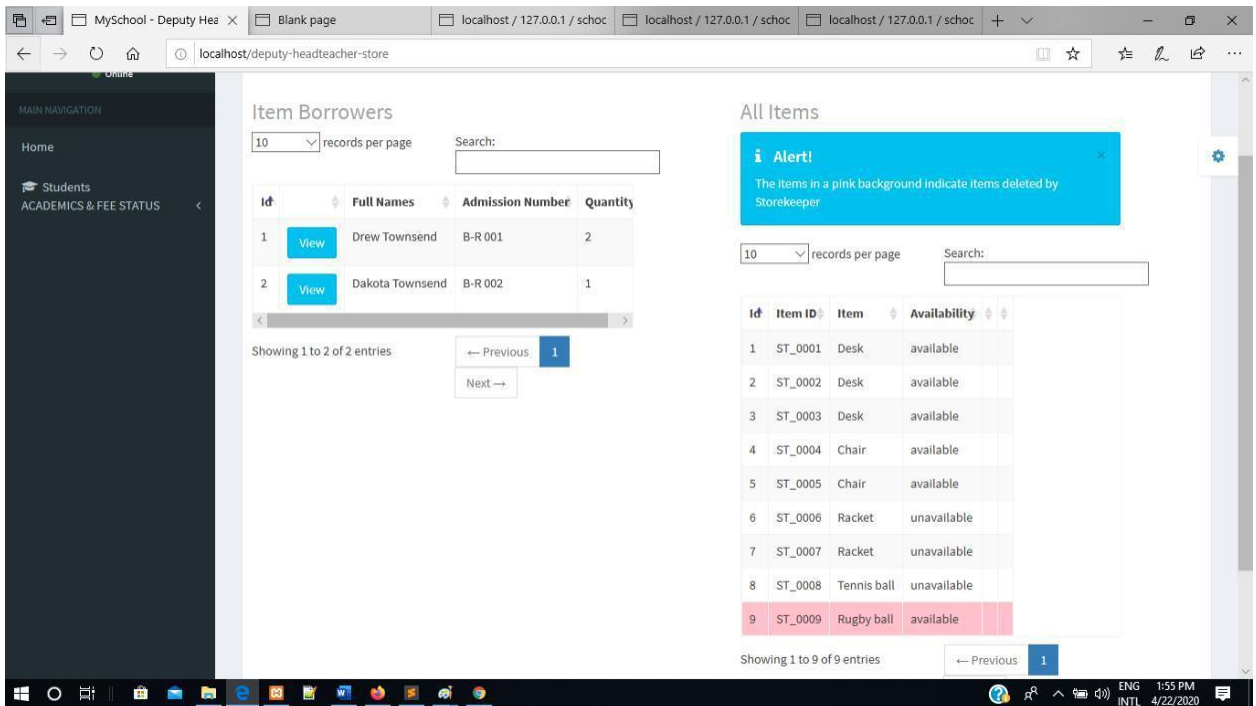
This marks the end of the library module for the Deputy and Head Teachers.

viii. Stores

Go to the dashboard and click the “Stores” tab circled by the red marker displayed below:



This takes us to the following page:



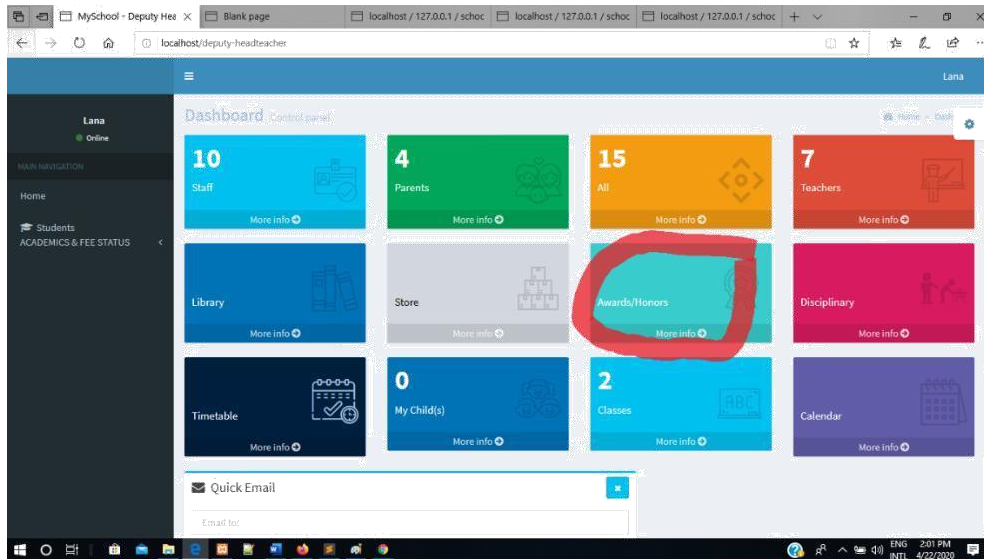
The stores module is similar to the library one, but managed by the storekeeper whom we shall create fictitiously.

The item borrowers in order of their occurrences on the left, the list of items(available, unavailable and deleted) on the right.

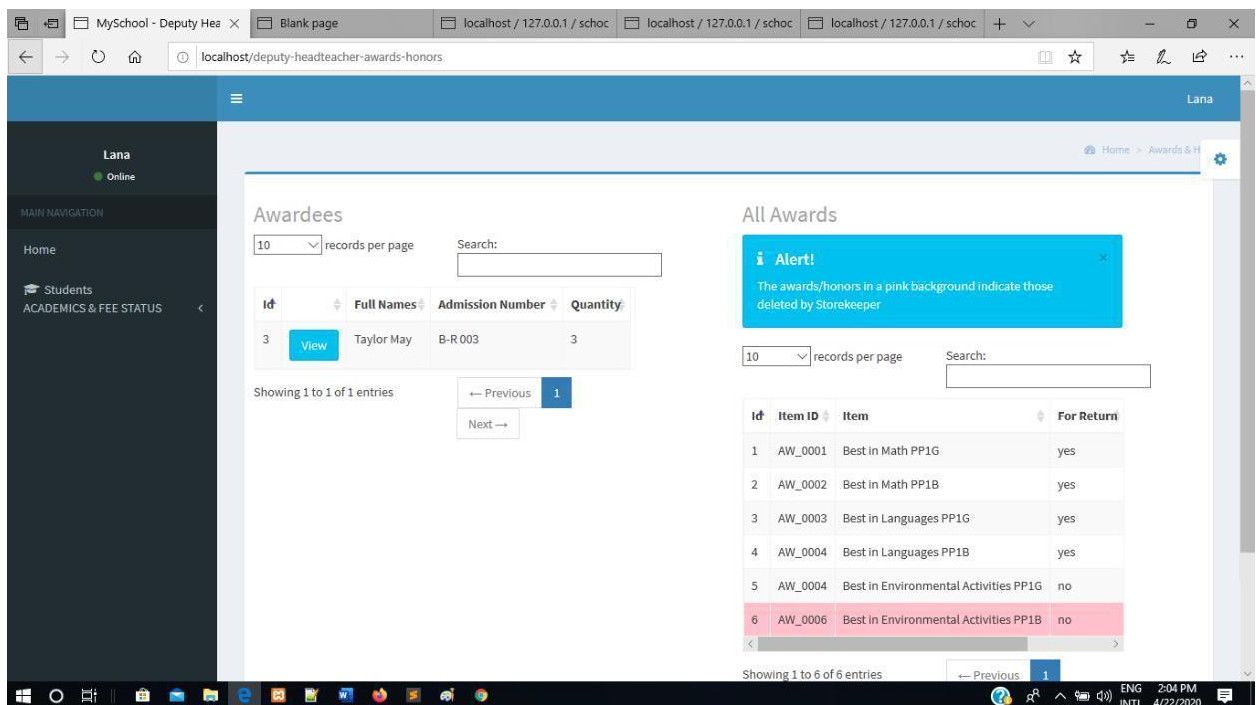
It works the same as the library with regard to viewing borrowers, restoring and deleting items.

ix. Awards & Honors

Go to the dashboard and click the “Awards/Honors” tab circled by the red marker displayed below:



This leads us to the following page:

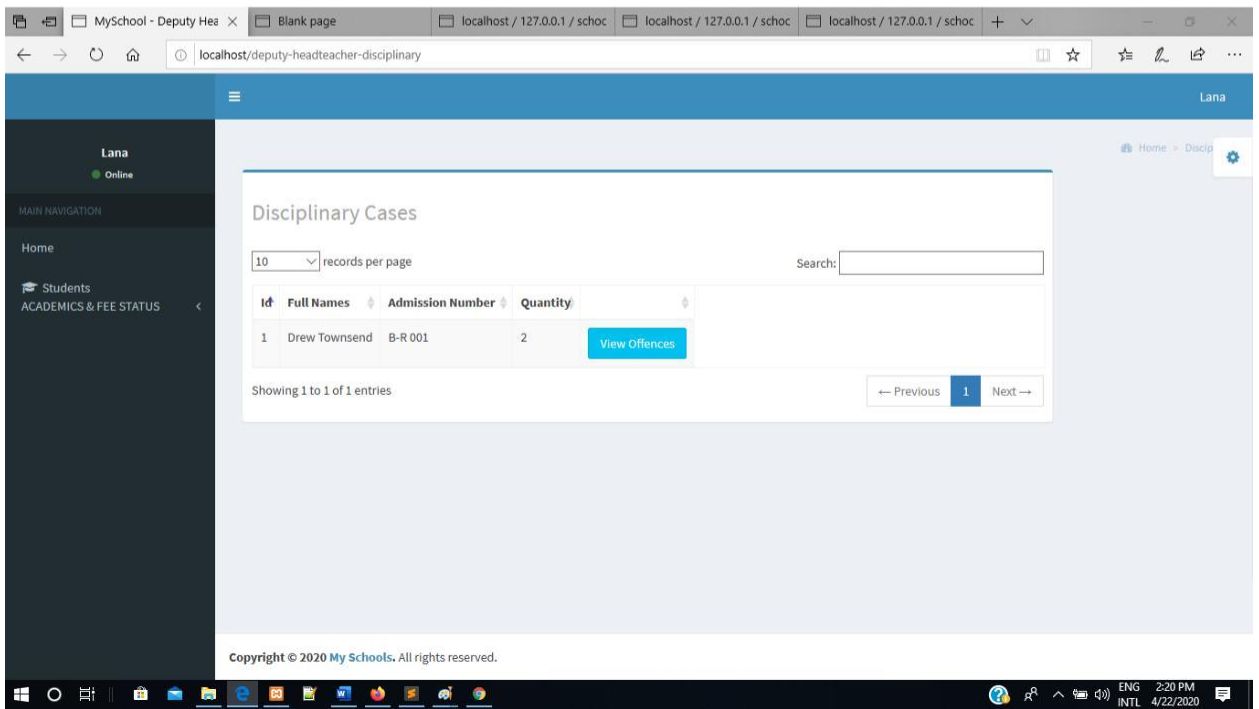
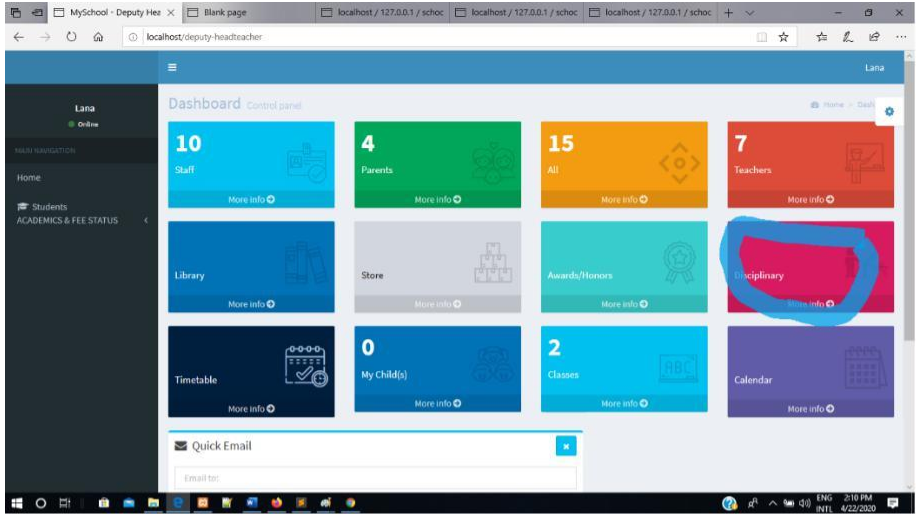


Once again, this module is alike that of library and stores. A small difference lies in the “All Awards” list where there is a column titled “For Return”. This field indicates awards that may be meant for return by the school after a given period of time. This module is also managed by the storekeeper.

Nothing else different, let’s move to the Disciplinary module .

x. Disciplinary

Go to the dashboard and click the “Disciplinary” tab circled by the blue marker displayed below:



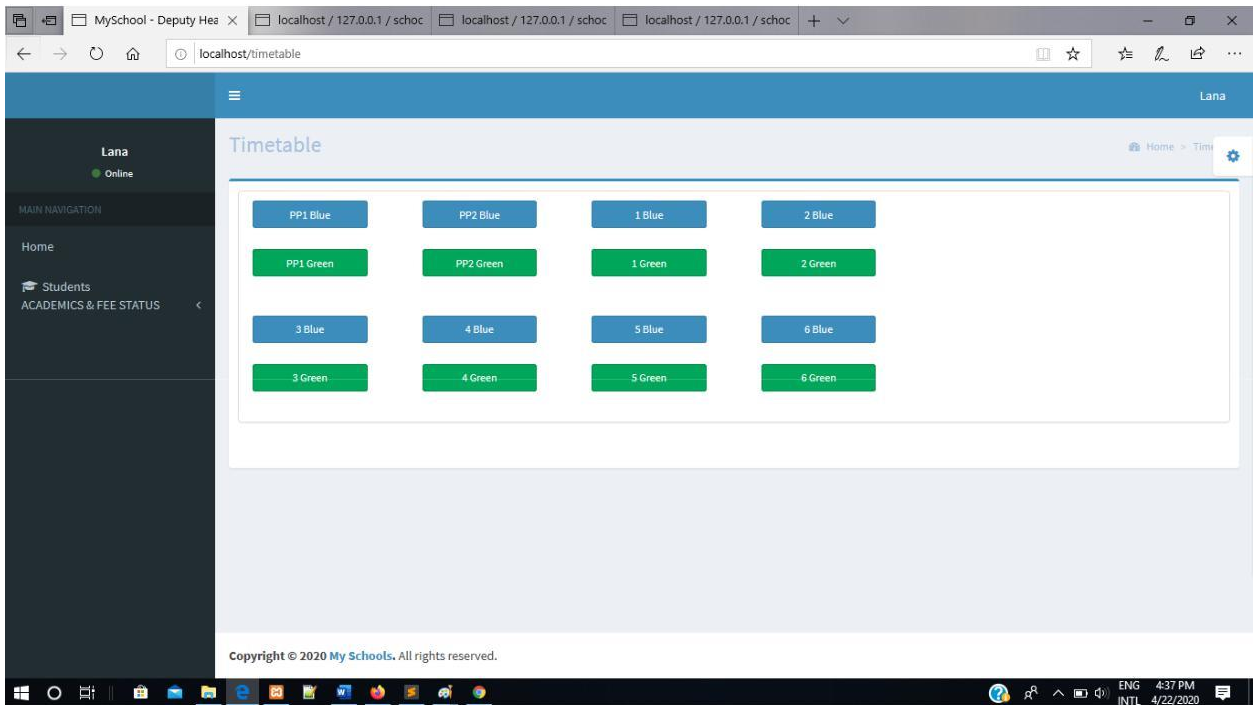
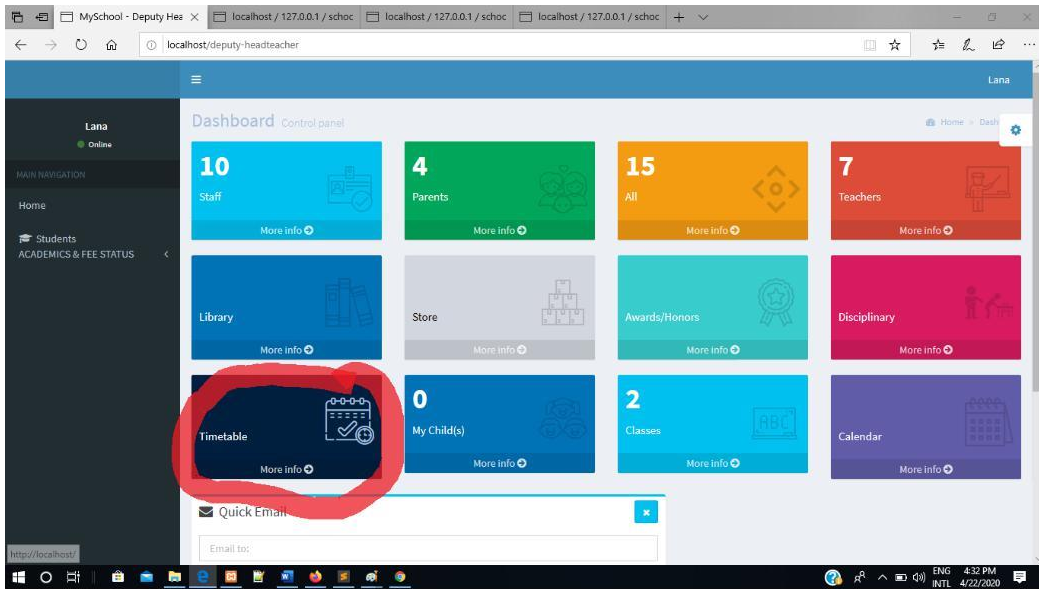
This is a very straight forward module.

It gives a brief detail of students found on offence and shows in order of frequency of offences. Clicking on the “View Offences” shows further details about the offence (Date of Occurrence, Punishment meted and whether or not the punishment was completed). The Discipline Master is to manage this module.

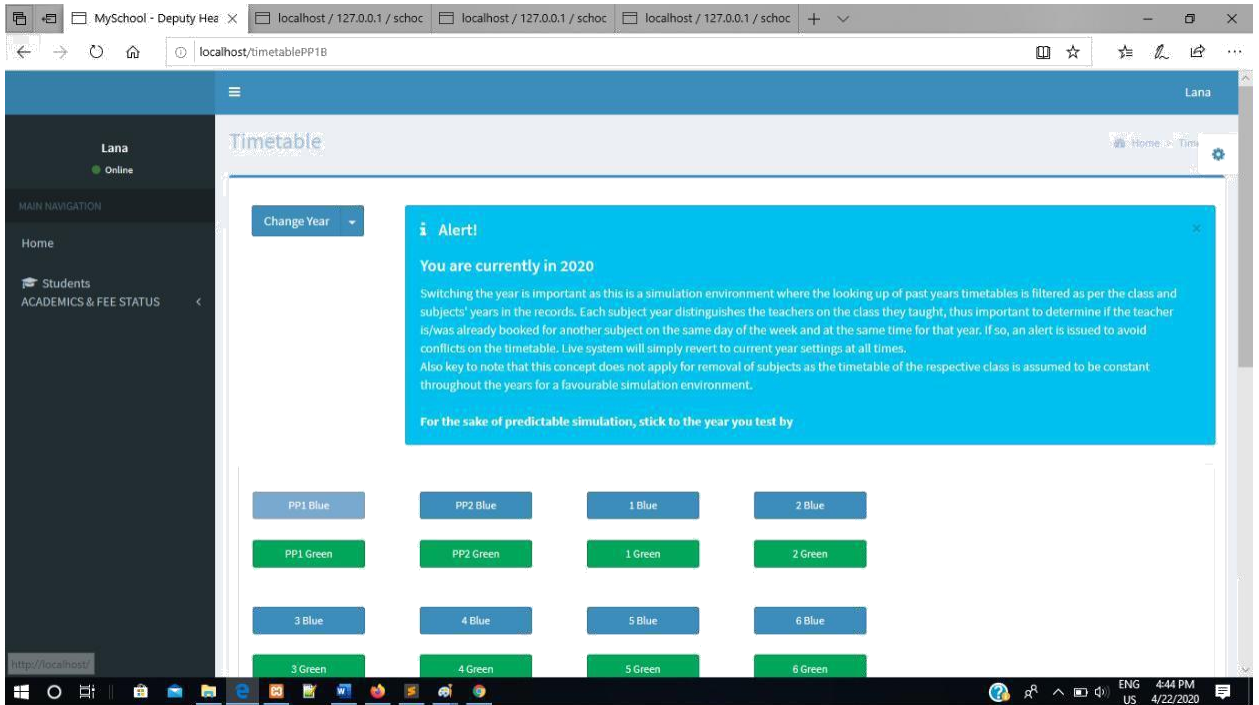
xi. Timetable

This module's function is to slot subjects in the timetable of the week.

Go to the dashboard and click the "Timetable" tab circled by the red marker displayed below:

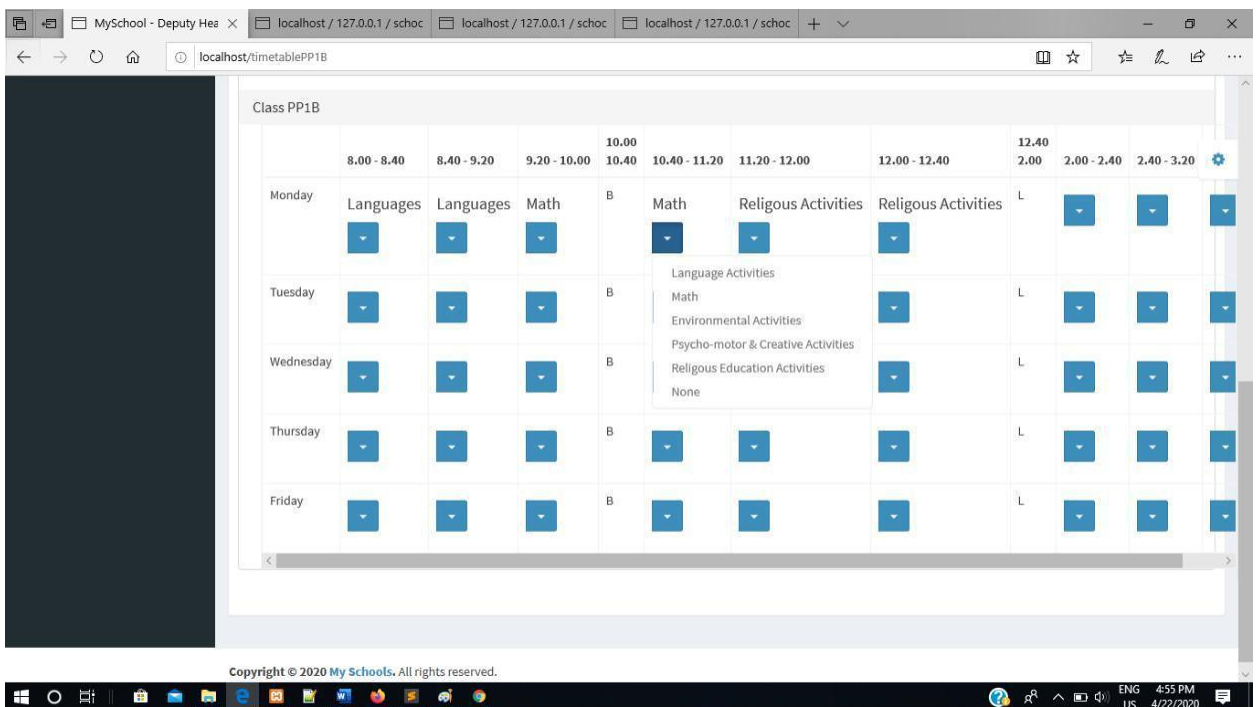


The page that follows shows that every stream has a timetable. Click on the tab PP1 Blue.



This page is the final of input of subjects. The alert message is about being conscious of the year chosen when slotting the subjects for the stream. A different year means that the changes made will not be applied to the pertinent year you meant to apply to when testing a teacher viewing his/her timetable for that selected year.

Scroll down to get to the timetable itself.



This page shows the five teaching days of the week, each subdivide into 40 min intervals, of which are slotted the various subjects of that grade for that stream.

A drop-down button for each of the interval is a list of the subjects to choose from.

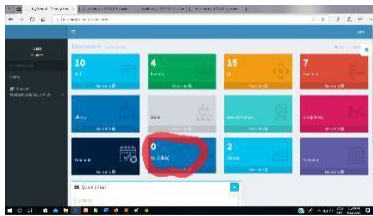
NB Upon picking a subject, the system looks up the subject teacher and checks if he or she is booked for another class during the same interval of that day of the week. If so, an alert is issued to avoid conflicts of schedule.

We have now covered the significant functionalities of the timetable module.

Let's move to the next module

xii. Child(s)

This module shows the affairs of the children or child of user is session. In this case, Linda the Deputy Head Teacher is in session and has no children in the school thus the number 0 displayed.



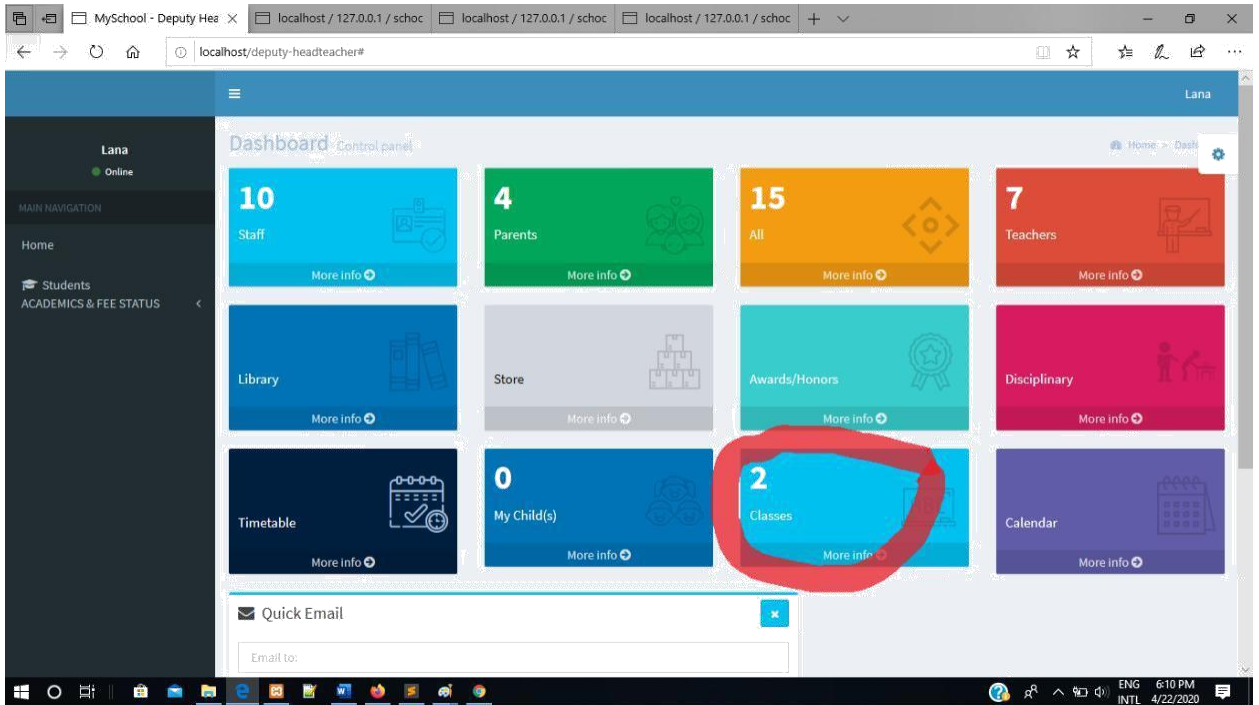
The responsibility of linking up the students admitted to their parents lies with the registrar. We shall form our registrar user, a parent user and student to go through and assess this functionality.

xiii. Classes

This module shows the classes taken of user is session.

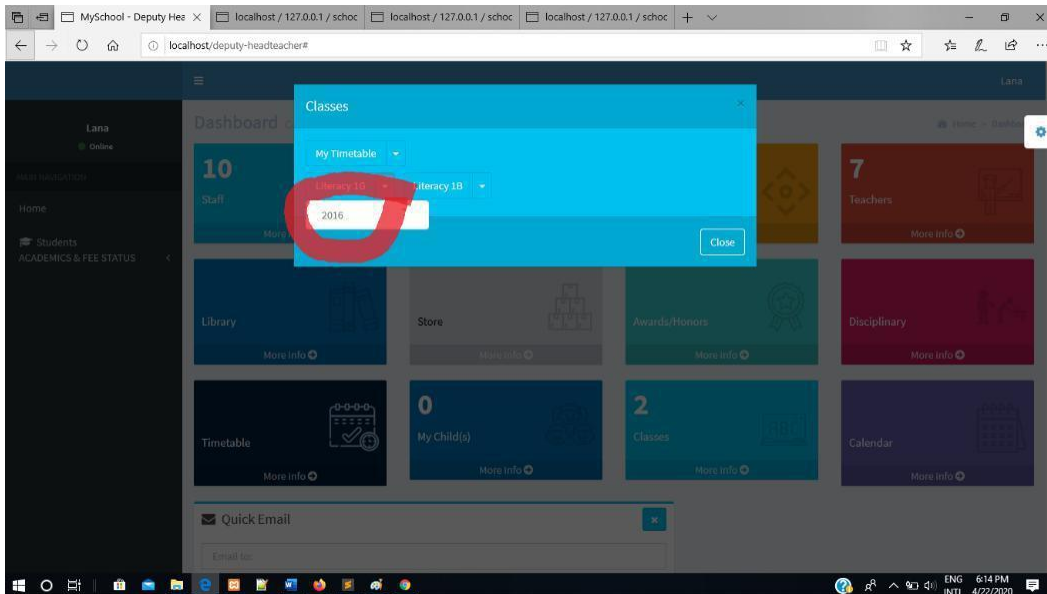
Remember earlier on, on page 13. We assigned Linda (the Deputy Head Teacher in this session) her position as well as two classes for the year 2016 namely Literacy 1B and Literacy 1G.

The classes assigned to a user appear in this module upon clicking the tab "Classes" circled by a red marker.



This throws a pop up with “My Timetable” button and buttons for classes the user in session teaches. If the user is a class teacher, a separate button for his/her class will display, whether current or former class.

Note that the subject then displays only the drop-down of the year in which Linda was scheduled to teach which is 2016.



On clicking 2016, it leads us to an empty table as Drew and his friends are still in 2014.

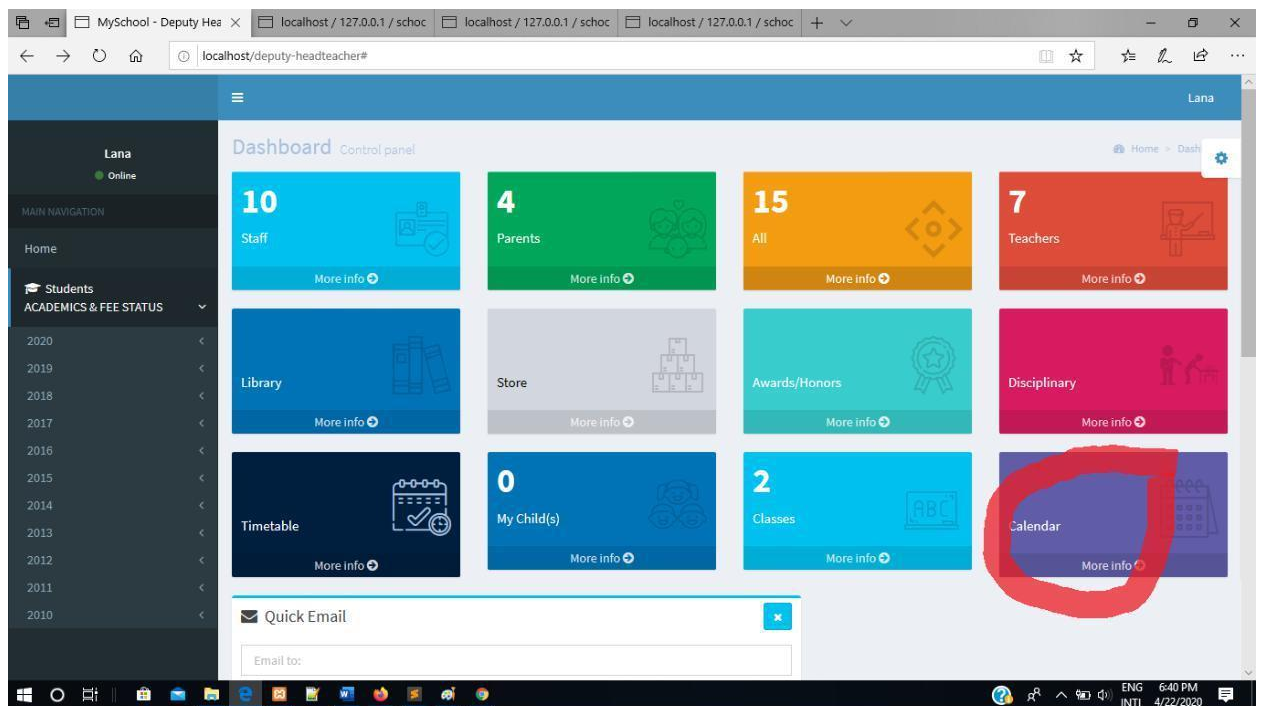
They are actually in a few of 2015 records as the registrar graduated them for simulation purposes. But at this point, for clarity's sake assuming even 2015 has not yet reached, they are still in 2014.

NB This module namely Classes and the previous module namely My Child(s) are prevalent to all the users in the system. This is so as any user can be a parent only, a user can be a teacher only without any of the roles mandated by the Head Teacher with reference to page 13 and finally a user can be both a parent and a teacher.

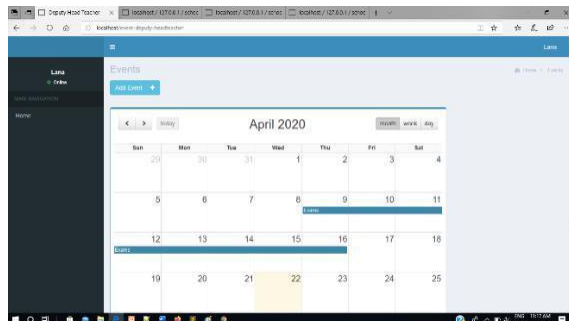
xiv. Calendar

This module touches on school events lined up on a calendar year. The Deputy and Head Teacher are responsible for adding events, the other system users can find the events in their dashboards and click on them for more details.

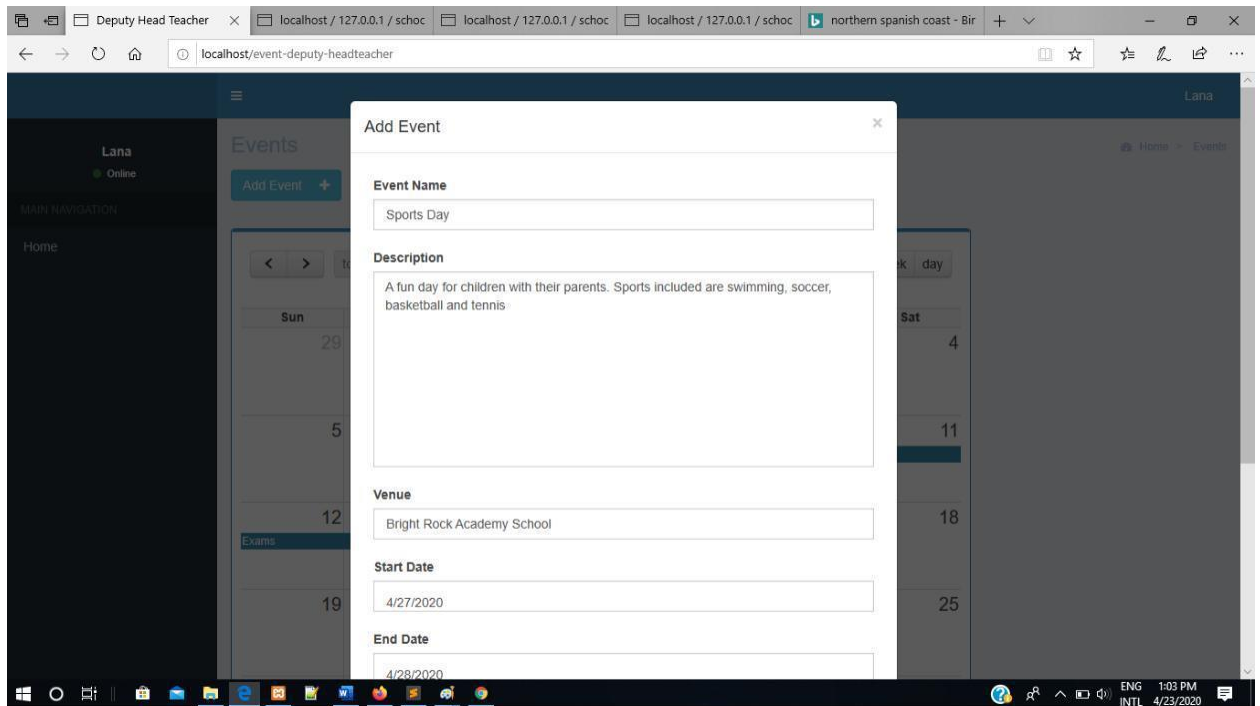
Go to the dashboard and click the "Calendar" tab circled by the red marker displayed below:



Click on it to find the following page:



This page is in calendar form displaying all the events of a school.
To add an event, click on the light blue tab above it “Add Event”



This pops up a window for filling in the details of the event you are posting.
Fill it up and click the “Add” button.

This takes us back to the Events page. Scrolling down the calendar, we find our event successfully entered. On click of it takes us to a page showing the details of the event... it is a form in a ready state for any update.

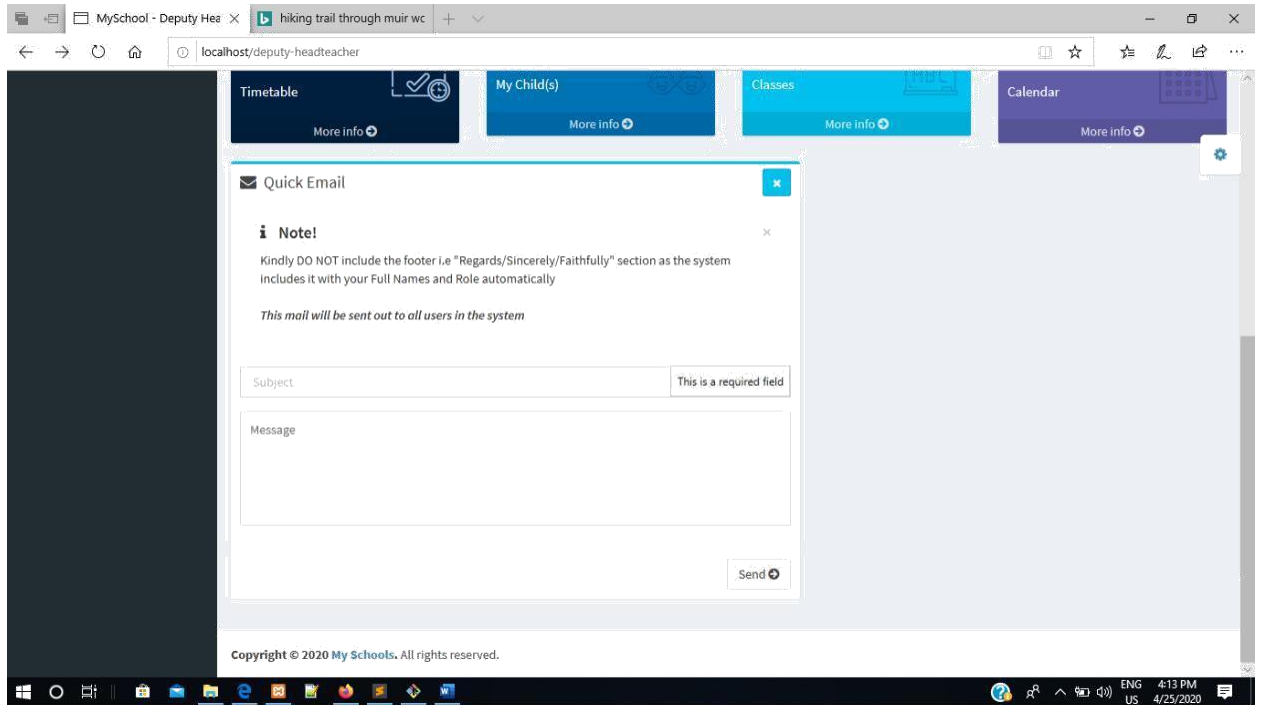
Any user other than the Deputy and Head Teacher will view any event posted and in details.

xv. Email

This module is exclusively for shooting an email to all the users of the system.

The email will automatically include the signature at the bottom i.e Full Names and Job Role of the sender, so the sender only types the subject, salutation, message and send.

Scroll down the dashboard and find the Send Email window as pictured below:



Thus far we have covered the Deputy Head Teacher module as well as the Head Teacher module as all the features of the former are precisely the same in the latter.

Another difference unmentioned is that any operation on Head Teacher is implicit to all users other than the Head Teacher himself/herself.

REGISTRAR

1. REGISTRAR REGISTRATION

The questions raised in page 16 and 18, concerning how students and parents are entered to the system are addressed in this module.

Let's register a user and activate him from the Head Teacher All Users module as a Registrar

I will use the following credentials:

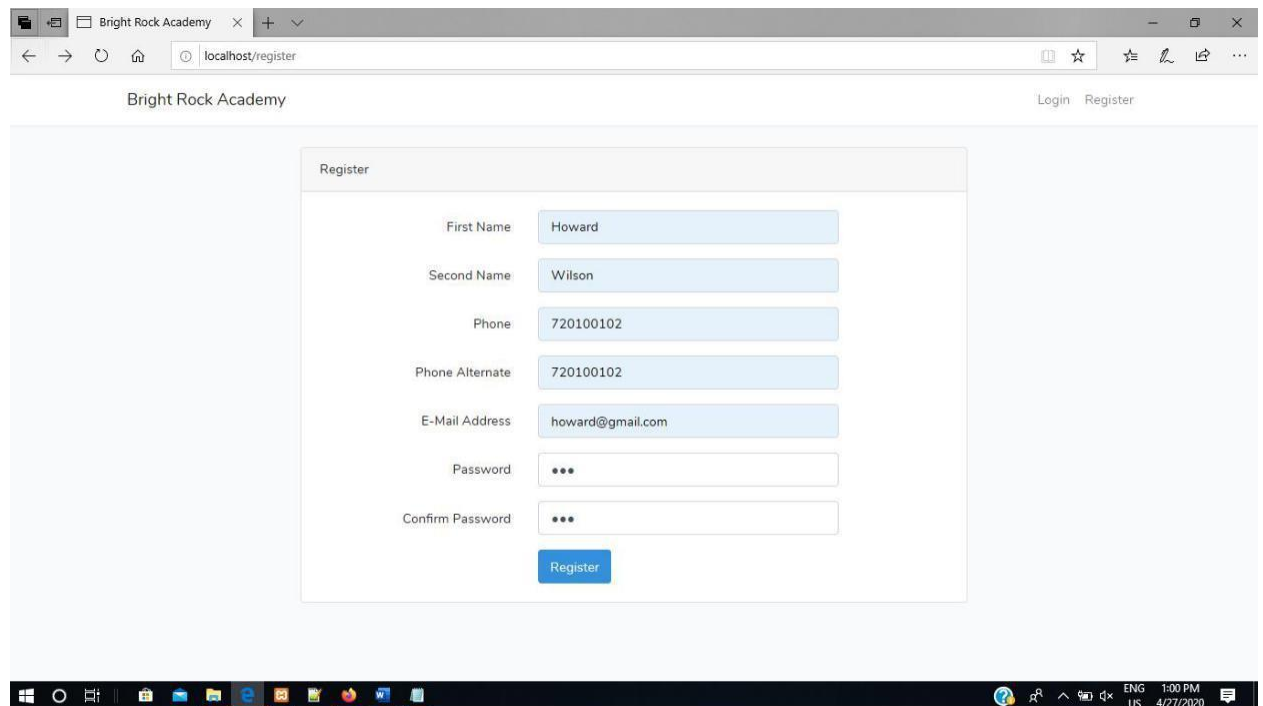
First Name: Howard

Second Name: Wilson

Phone Number: Any of local telecoms line

Email: howard@gmail.com

Password: 123



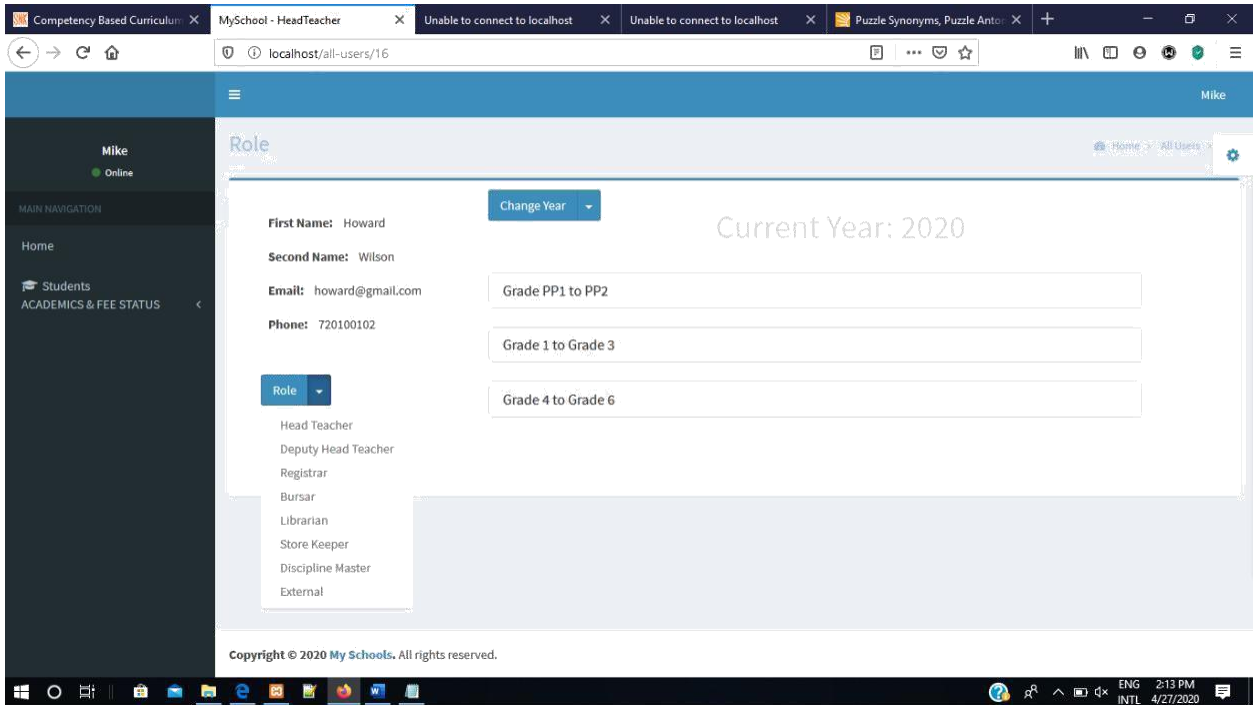
The screenshot shows a web browser window with the address bar displaying 'localhost/register'. The page title is 'Bright Rock Academy' and there are 'Login' and 'Register' links in the top right. The main content is a registration form titled 'Register' with the following fields:

First Name	Howard
Second Name	Wilson
Phone	720100102
Phone Alternate	720100102
E-Mail Address	howard@gmail.com
Password	...
Confirm Password	...

A blue 'Register' button is located at the bottom of the form.

2. ASSIGNING ROLE (REGISTRAR) FROM THE HEAD TEACHER ACCOUNT

Next, let's move to the Head Teacher All Users module under the tab "All" and appoint Howard as our registrar.

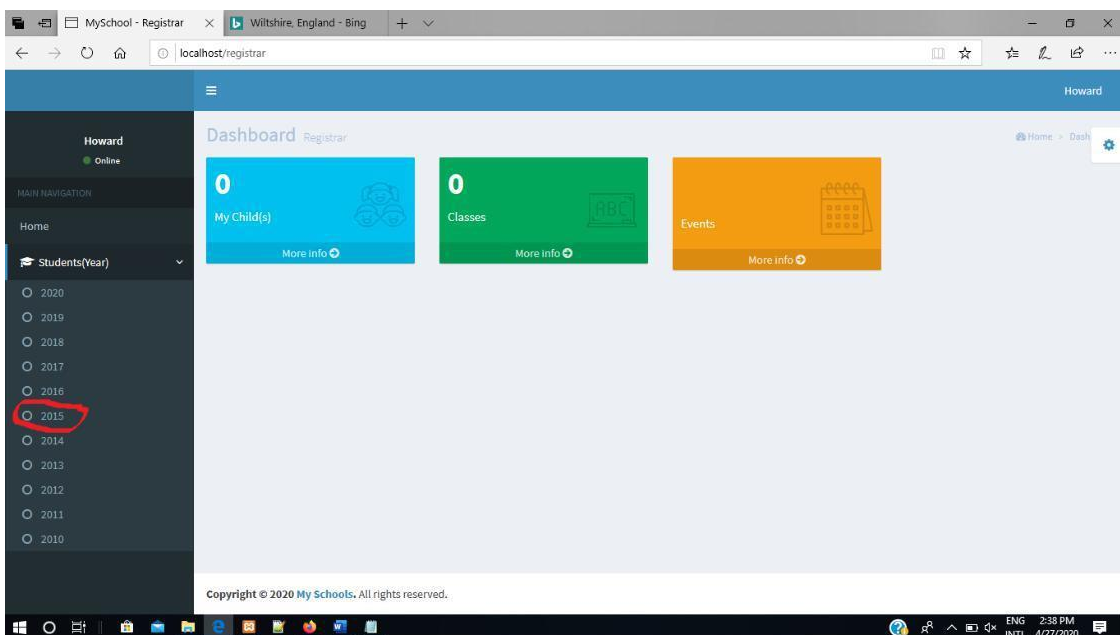


Howard is now our registrar. Let's switch to his account and login

3. REGISTRAR LOGIN & DASHBOARD

On login, we find the Registrar's dashboard looking like that of the Head & Deputy Head's except that there is a huge cut down on the large colorful tabs as the Registrar's line of duty is not about overseeing other sections of the system.

The "My Child(s), Classes and Events" tabs are here and onwards ubiquitous as they are elements of common grounds, considering the user is not a Deputy or Head Teacher.



4. GRADUATE STUDENT(S) & REVERSE CHANGES

Click on the year 2015, and on the next page, click PP2B:

The screenshot shows the MySchool - Registrar application interface. The main navigation menu on the left includes 'Home' and 'Students(Year)' with a dropdown for years from 2010 to 2020. The current view is for 'Year 2015' and 'Class PP2B'. A blue alert box states: 'Alert! Kindly note that the Add Student interface is enabled across all years going back for testing purposes. Going live, the interface will be enabled for current year only. This alert is dismissable.' Below the alert is a table with 2 entries:

	Full Names	Admission Number	Class	Gender	Parents Details	
5	Drew Townsend	B-R 001	PP2B	male	Samantha Townsend (727070182 711222339) Roy Townsend (711222340 711222340)	Guardians
6	Dakota Townsend	B-R 002	PP2B	female	Samantha Townsend (727070182 711222339) Roy Townsend (711222340 711222340)	Guardians

At the bottom of the table, there are buttons for 'Graduate', 'Reverse', 'Repeat', and 'Advance'. The right sidebar shows grade selection options for Grade PP1 (Blue, Green), Grade PP2, Grade 1, Grade 2, Grade 3, Grade 4, and Grade 5.

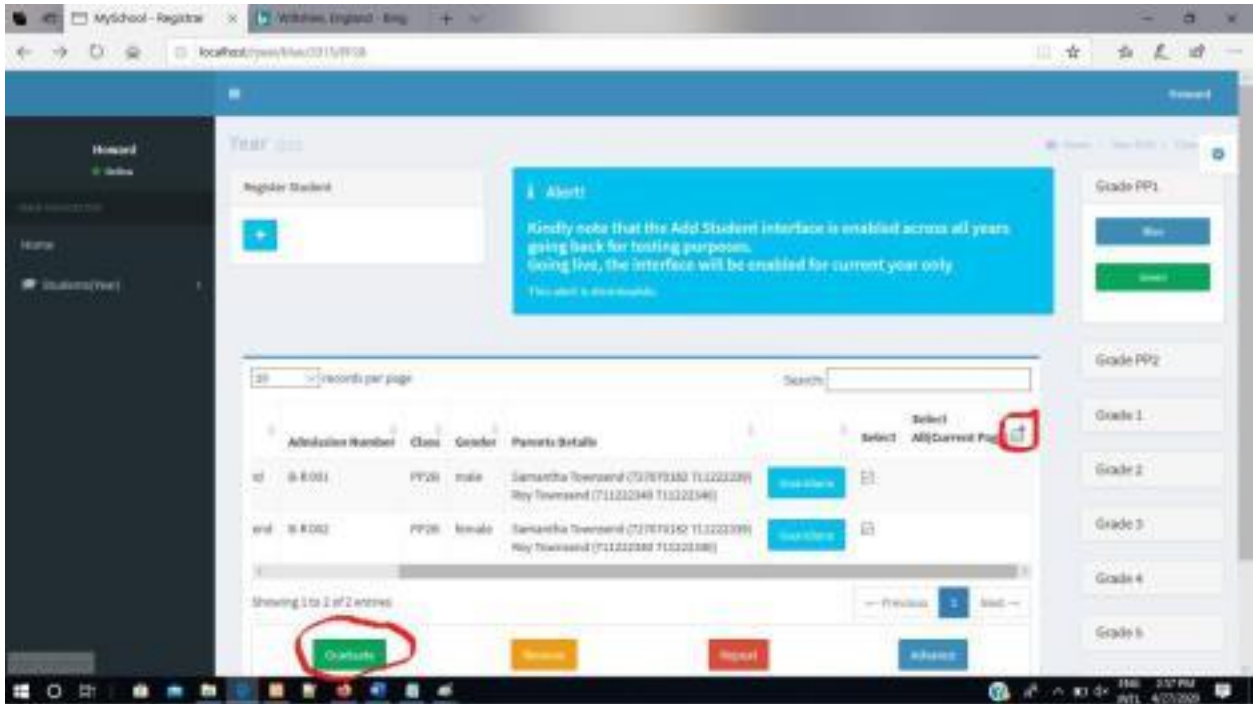
We find the Townsend twins a year later(2015) in PP2B.

Their parents remain the same. Our year of interest is 2016, as we selected Linda to be Literacy teacher for stream 1B and 1G.

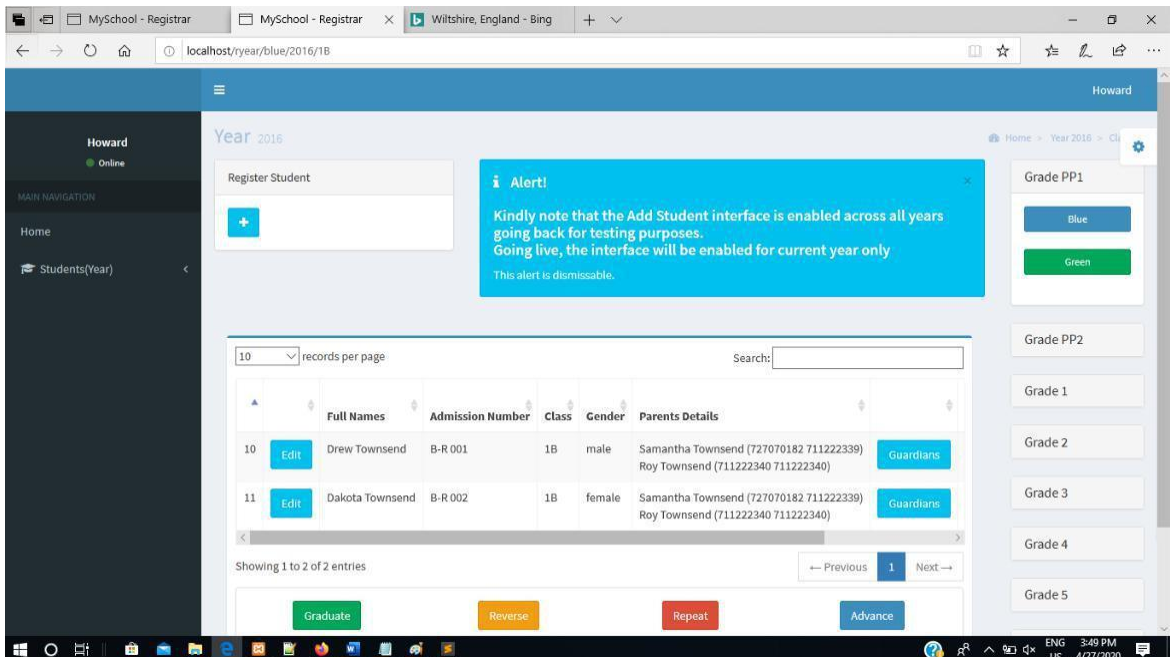
As we can see in the picture below, "Select(Year) > Stream" navigation of 2016 and Grade 1 Blue respectively, the table is empty.

The screenshot shows the MySchool - Registrar application interface for 'Year 2016' and 'Grade 1 Blue'. The main navigation menu on the left includes 'Home' and 'Students(Year)' with a dropdown for years from 2010 to 2020. The current view is for 'Year 2016' and 'Class 1B'. A blue alert box states: 'Alert! Kindly note that the Add Student interface is enabled across all years going back for testing purposes. Going live, the interface will be enabled for current year only. This alert is dismissable.' Below the alert is a table with the message 'No data available in table' and 'Showing 0 to 0 of 0 entries'. At the bottom of the table, there are buttons for 'Graduate', 'Reverse', 'Repeat', and 'Advance'. The right sidebar shows grade selection options for Grade PP1 (Blue, Green), Grade PP2, Grade 1, Grade 2, Grade 3, Grade 4, and Grade 5.

Let's graduate Drew and Dakota form 2015 PP2B TO 2016 Grade 1 Blue.



First click on the “Select All(Current page)” checkbox followed by the green “Graduate” button. This graduates the two students along with new entries of their records in the Bursar’s account. We shall simulate the Bursar in the next item of the table of contents. Go to Students(Year) pick 2016 and Grade 1 Blue. We now find Drew and Dakota successfully graduated to Grade 1 Blue.



This move graduated not only the students' class registry, it also graduated them on the following:

- i. Subjects' records according to their new grade
- ii. School fee records (Tuition, Boarding, Bus & Lunch)

Supposing we wish to graduate only select students, we ought to use the select checkbox accordingly.

In the event we realize that we have made a mistake, and wish to undo our move, we go to orange "Reverse" button circled in red and select the student(s) of interest. This will undo graduation across all the levels highlighted above.

The screenshot shows the MySchool Registrar web application. The browser address bar indicates the URL is localhost/year/blue/2016/1B. The interface includes a sidebar with navigation options like 'Home' and 'Students(Year)'. A main content area displays a table of students for Year 2016. An alert message is visible, stating that the Add Student interface is enabled across all years for testing purposes. At the bottom of the student list, there are buttons for 'Graduate', 'Reverse', 'Repeat', and 'Advance'. The 'Reverse' button is circled in red.

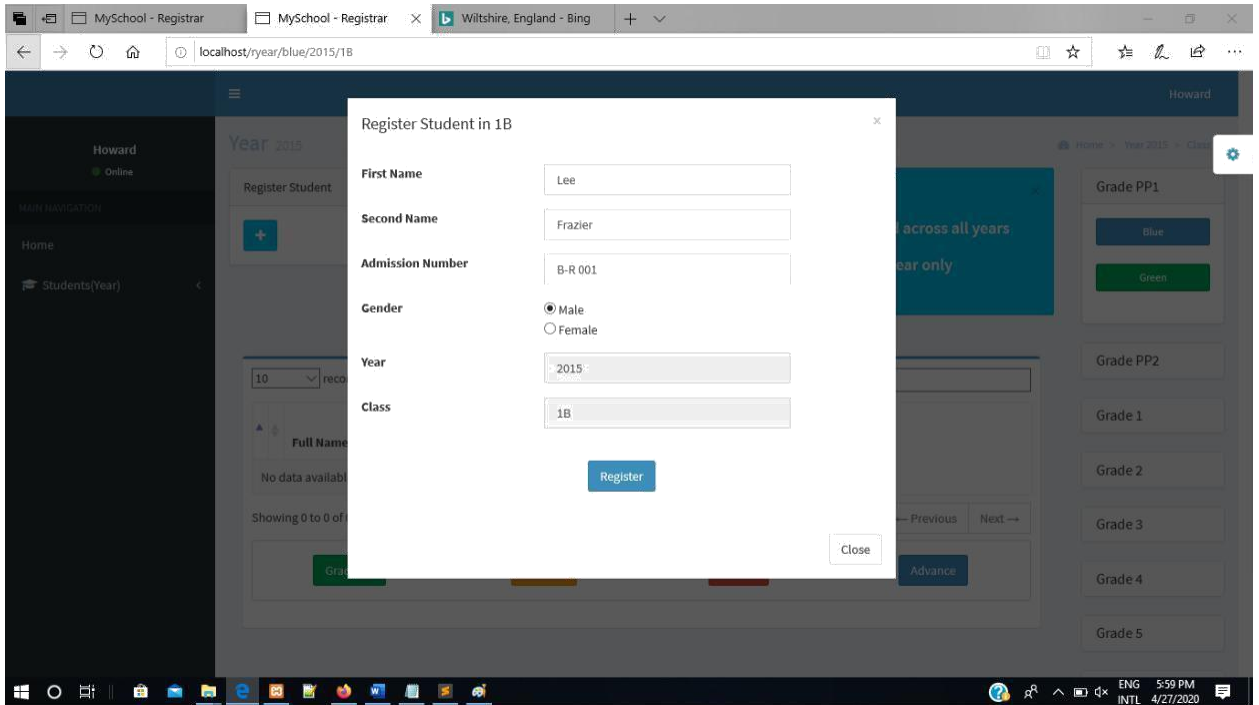
	Full Names	Admission Number	Class	Gender	Parents Details	
12	Drew Townsend	B-R 001	1B	male	Samantha Townsend (727070182 711222339) Roy Townsend (711222340 711222340)	Guardians
13	Dakota Townsend	B-R 002	1B	female	Samantha Townsend (727070182 711222339) Roy Townsend (711222340 711222340)	Guardians

The next button besides the "Reverse" button is the "Repeat" button. Its use arises when a student(s) is to repeat a grade for a given reason. This performs same operations as Graduate in the sense that new records in the subjects and school fees are created but a year plus one is marked against them while the student's grade is maintained to be the same.

5. ADMIT A STUDENT

Lets add a new student in Grade 1 Blue but from the year 2015. The objective here is to repeat the student and find him present in Grade 1 Blue both in 2015 and 2016 and not graduated to Grade 2.

Let's go to the year 2015 Grade 1 Blue and click on the plus button in the Register student tab above:



This pops up a window for input of new student for the year 2015, Grade 1 Blue.

Let's take our child's credentials as follows:

First Name: Lee

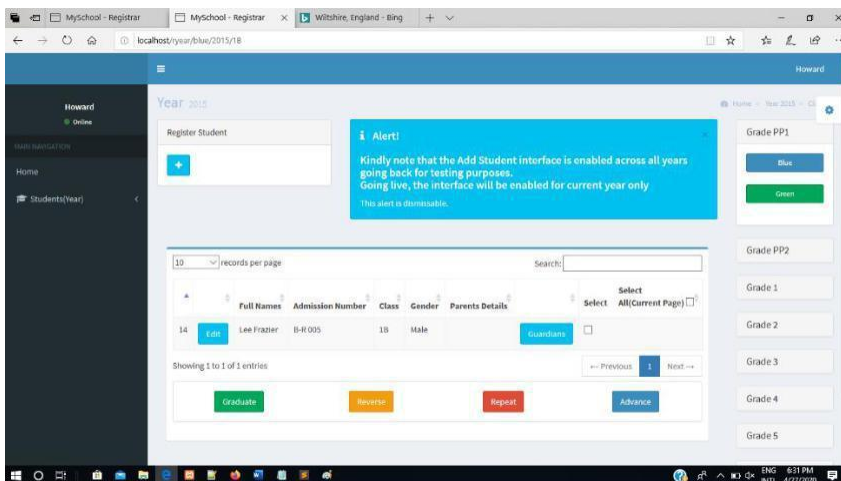
Second Name: Frazier

Admission Number: B-R 005

Gender: Male

Note that the admission numbers have to be unique on input, otherwise the system will throw an alert to pick another one

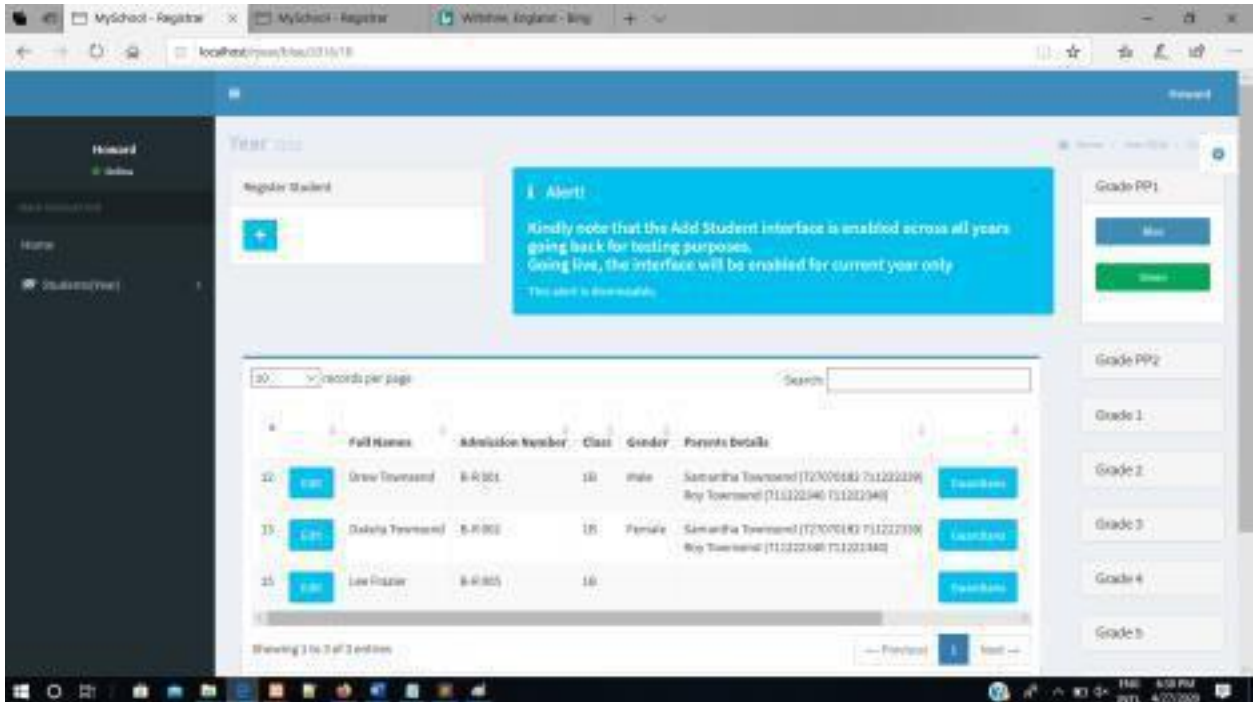
We have now successfully admitted our first student as from our custom data set.



Note: Lee has yet to be linked with his parent/guardian, we shall come back to this after finishing going through the Graduate, Reverse, Repeat and Advance functions.

6. REPEAT STUDENT(S)

Let us now try to repeat Lee to the same grade assuming we are in the year 2016 with Drew and Dakota. Select Lee and click on the red "Repeat" button below him (Lee from 2015 in Grade 1B). After doing so, let's go to the year 2016 Grade 1 Blue.



Alas! We now find Lee, Drew and Dakota in the same class for the year 2016

7. ADVANCE STUDENT(S)

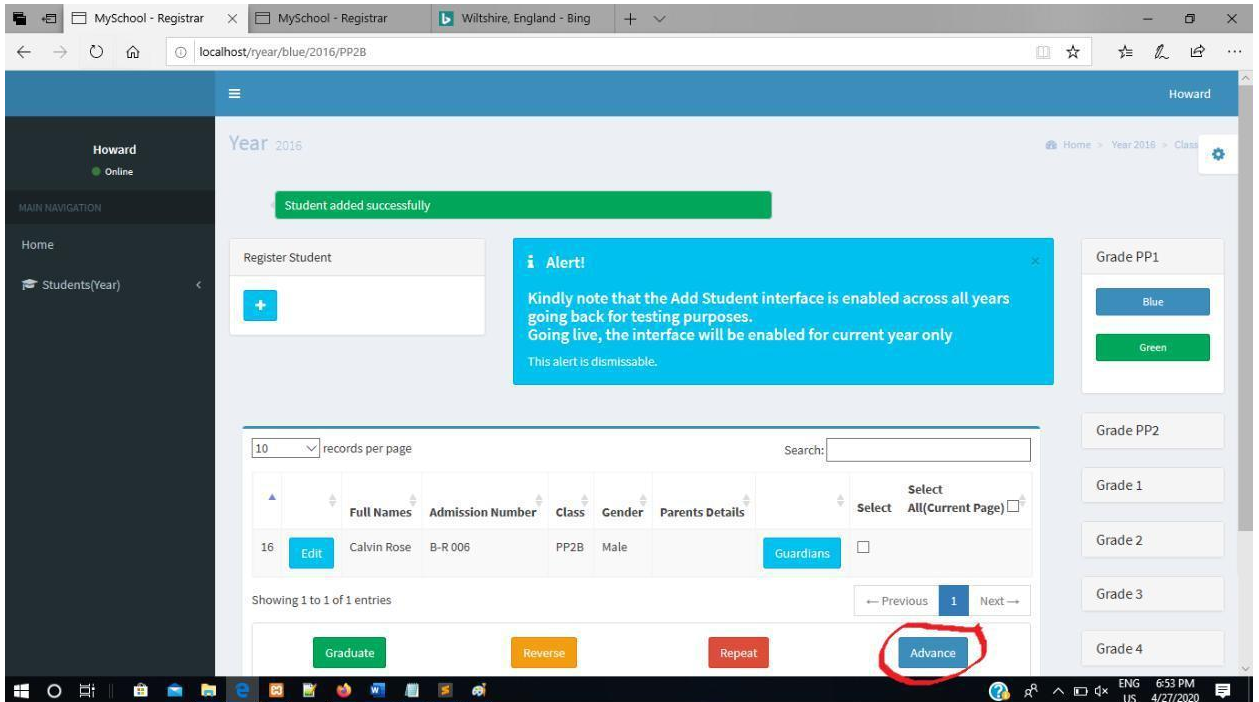
Last but not least is to simulate the Advance student scenario. This happens in the event a student proves to be too smart for his/her grade, thus is fast forwarded to his/her appropriate grade.

Let's add a new student in Grade PP2 Blue but from the year 2016. The objective here is to advance the student and find him present in Grade PP2 Blue and Grade 1 Blue, within one year 2016.

Let's go to the year 2016 Grade PP2 Blue and click on the plus button in the Register student tab.

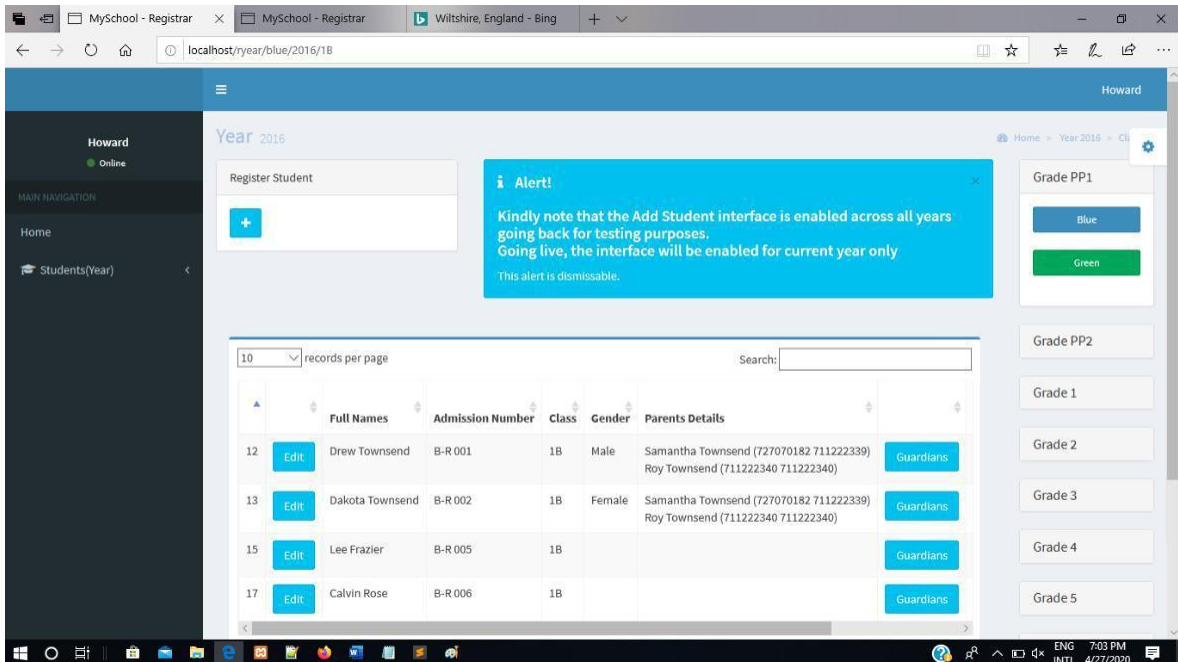
Our child's credentials are as follows:
First Name: Calvin
Second Name: Rose
Admission Number: B-R 006
Gender: Male

Next, click on the “Advance” button circled in red as showed in the picture below:



This successfully registers Calvin for the next grade but still on the same year.

This means that Calvin can now be found in 2016 Grade 1 Blue together with Drew, Dakota and Lee.



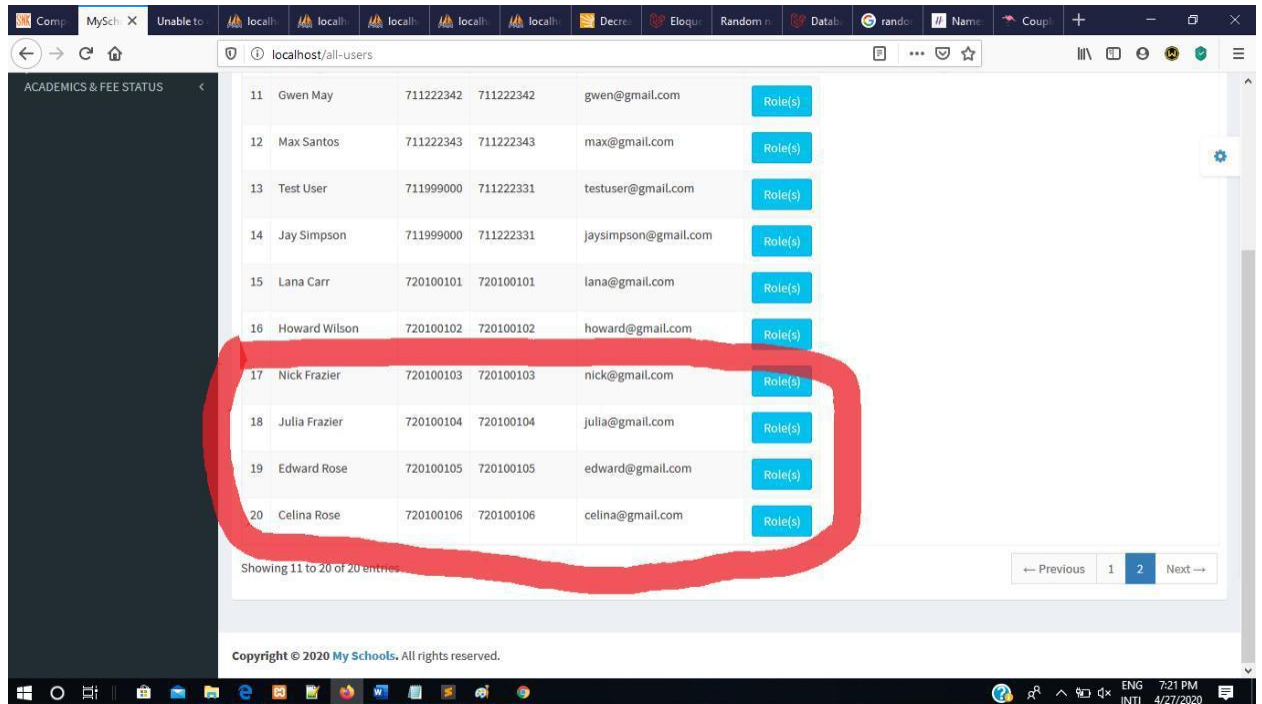
8. LINK UP STUDENT(S) TO THEIR PARENTS Parents fields to Lee and Calvin is glaringly blank.

Let us register four individuals to be parents to the two respective students.

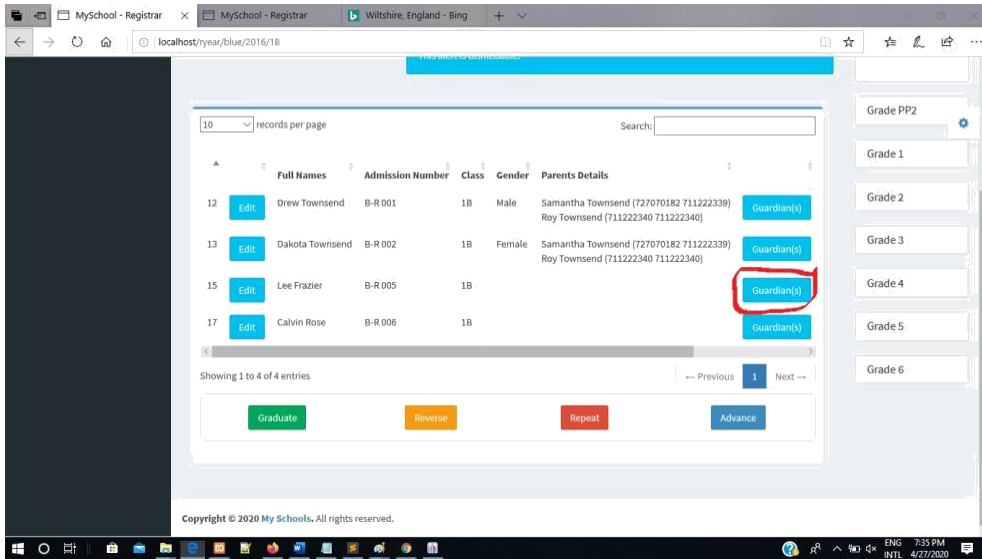
Lee's parents are called Nick and Julia Frazier.

Calvin's parents are called Edward and Celina Rose.

Assume we have gone through the process of registering all four of them, they are visible to the Head & Deputy Teacher in the "All Users" module as pictured below:

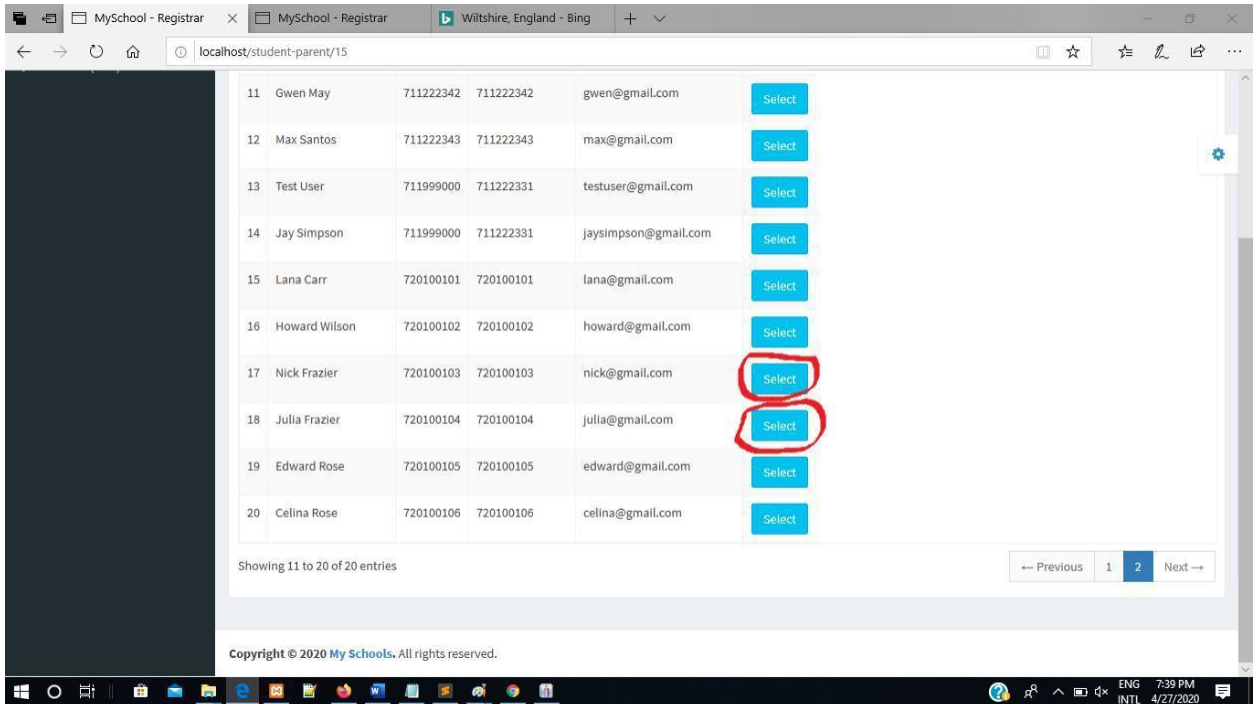


The Head Teacher is unable to recognize them as parents. Thus, clicking on their "Role(s)" button is pointless. Let's move back to the registrar's account and back to the year 2016 Grade 1 Blue.



Move over to Lee Frazier and click on Guardian(s) as circled red in the above picture.

The next page is a list of all the adult users of the system. Let's go to the next page and get to Nick and Julia, the parents to Lee. Click the light blue button labelled "Select" alongside both parents and the system now, regards them as Lee's parents.



The "Select" buttons have now turned green labelling Nick and Julia as parents.

You can repeat the same for Calvin's parents for easier reference.

Note that the system allows no more than two guardians/parents.

This wraps up the core functions of the registrar.

BURSAR

1. BURSAR REGISTRATION

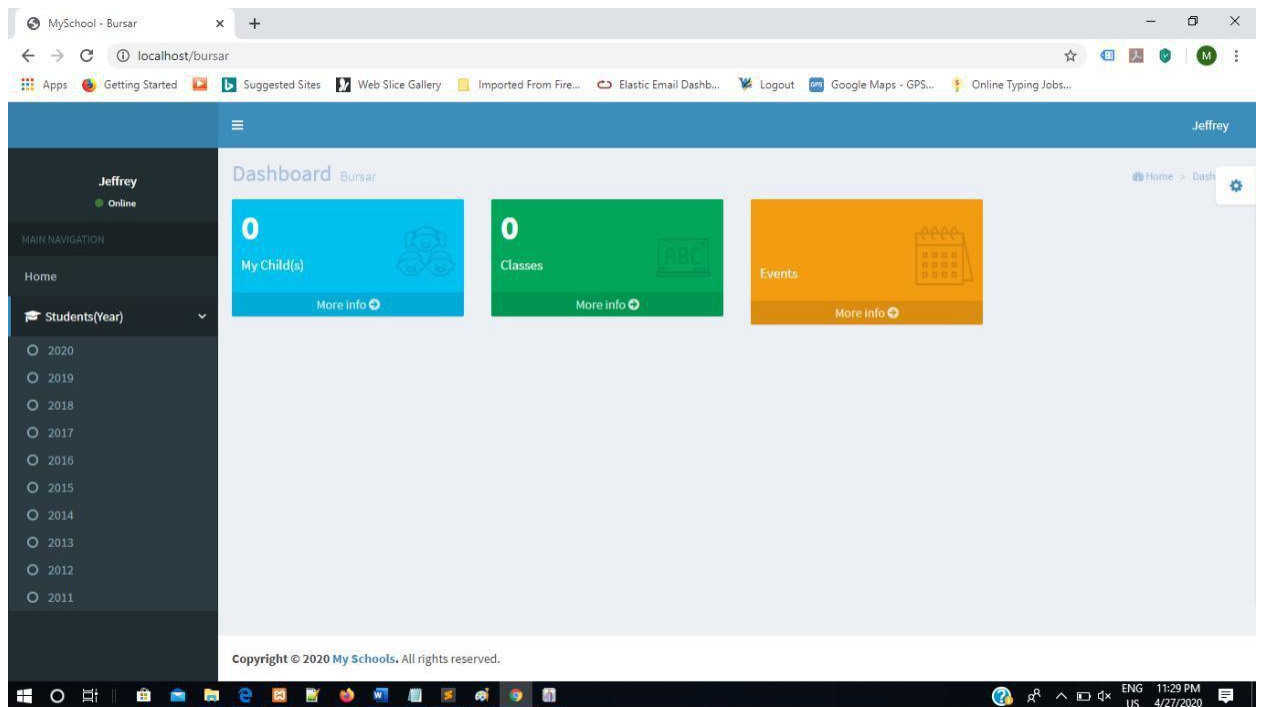
Let's register a user and activate him from the Head Teacher All Users module as a Bursar I will use the following credentials: First Name: Jeffrey
Second Name: Hopkins
Phone Number: Any of local telecoms line
Email: jeffrey@gmail.com
Password: 123

2. ASSIGNING ROLE (REGISTRAR) FROM THE HEAD TEACHER ACCOUNT

Next, let's move to the Head Teacher All Users module under the tab "All" and appoint Jeffrey as our bursar.

3. REGISTRAR LOGIN & DASHBOARD

On login as Jeffrey, again we find "My Child(s), Classes and Events" tabs.



The bursar has the same means of navigation as the registrar by the drop-down Students(Year) menu on the far left of the page.

Drop down, go to 2016 and click Grade 1 Blue.

This takes us to the following page:

MySchool - Bunter

localhost/tyson/fees/2016/16

Update Fee (Tuition) Boarding | Bus | Lunch

Alert!

Kindly note that the Update Fee interface will be enabled for the selected year, assuming simulation mode. Changes made can only be viewed under the year selected by Head Teacher, Deputy Head Teacher or Parent. This alert is for demo only.

12 records per page

Full Name	Class	Admission Number	Parents Details	View
Shera Townsend	1B	16-001	Sarahtha Townsend (71222346) 71222346 Ray Townsend (71222346) 71222346	View
Dakota Townsend	1B	16-002	Sarahtha Townsend (71222346) 71222346 Ray Townsend (71222346) 71222346	View
Lee Tracer	1B	16-003	Nick Tracer (71222346) 71222346 Julia Tracer (71222346) 71222346	View
Calvin Ross	1B	16-004		View

Grade PP1

View

Update

Grade PP2

Grade 1

Grade 2

Grade 3

Grade 4

Grade 5

11:08 PM 4/21/2016

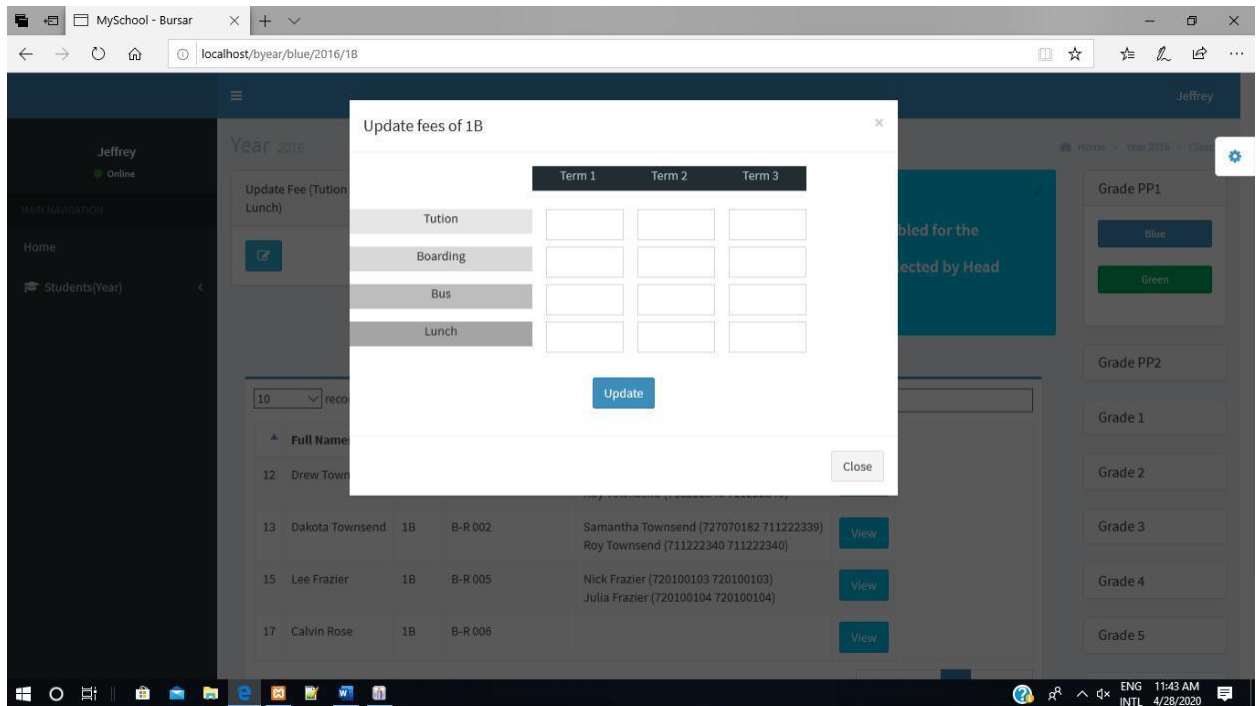
This page is a fee statement view of all the students of Grade 1 Blue in 2016.

Clicking on “View” alongside a selected student displays the Fee (Tuition, Boarding, Bus, Lunch) Amount, Paid and Balance throughout the year 2016 as per term.

The question that arises is how to set the fee Amount to reflect in the “View” pop-up.

4. SET SCHOOL FEES (TUITION, BOARDING, BUS & LUNCH)

Click on the “Update Fee(Tuition | Boarding | Bus | Lunch)” tab button and this pops up:

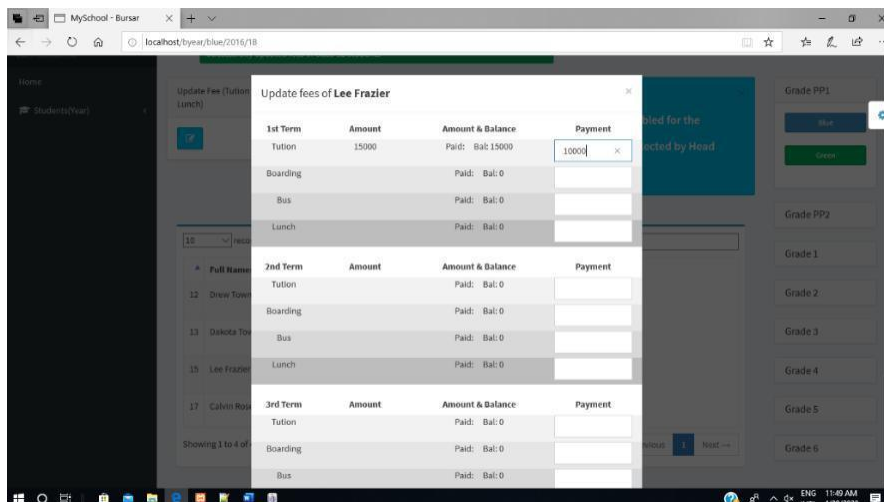


This is a window for setting fee amounts for the year across the three terms. In my case, I input Term1 15000 on Tuition and update.

Note: Only enter whole numbers without spaces within or without, avoid commas and any alphabet character

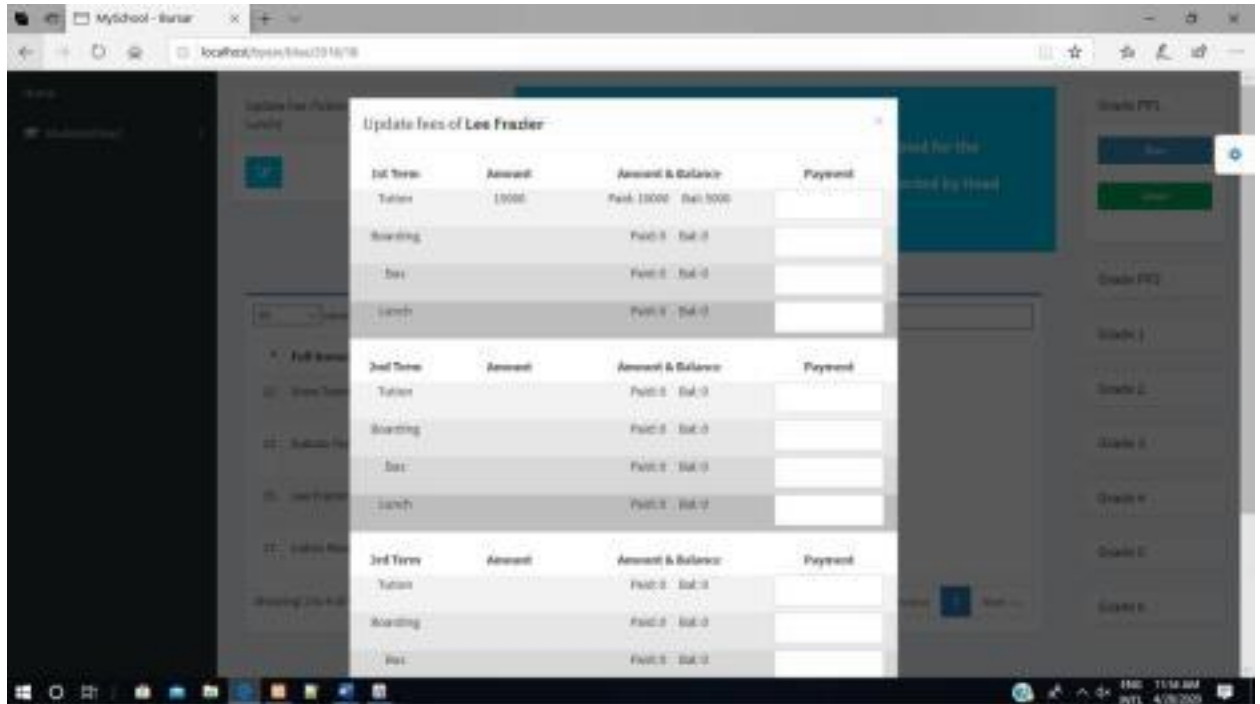
Let's go to view Lee Fraizer's record:

5. UPDATE STUDENT FEE PAYMENT



We find the Kshs 15,000 is reflecting as the Tuition Fee amount.

Assume Lee's parents made a payment of Kshs 10,000. This then should leave Lee's record with a balance of Kshs 5,000. So, let's input 10000 in the 1st Term Tuition Payment text field and click the Update button as you scroll down the page.



The above picture shows the resultant fee balance from what was paid.

This module is read only for parent of the child(ren) and Deputy and Head Teacher We have now fully covered the bursar module.

TEACHERS STUDENTS AND PARENTS ACADEMIC SYNCHRONY

We have fully covered operations on the following:

1. Appointment of a user to teach a subject and/or be a class teacher
2. Admit a student and link the student(s) to their/his/her parent(s)
3. Graduate student, delete student, repeat student, advance student
4. Set school fee(tuition, boarding, bus and lunch) and update payment of student school fees

We can now play around with the records we have and add a little more to simulate a real scenario

1. Register Teachers and Class Teachers

As it stands, we just have Linda Matthews as the Literacy teacher for Grade 1 Blue and Green. Grade 1 Blue has Drew, Dakota, Lee and Calvin

We need to graduate Tyler and Taylor from PP1G 2014 to 1G 2016 so we have both streams with students and data to crunch.

Assuming we have now brought Tyler and Taylor up to speed, let's register the following individuals to be teachers based on the rest of the subjects in Grade 1:

<p>SWAHILI First Name: Bianca Last Name: Torres Phone Number: Any of local telecoms line Email: bianca@gmail.com Password: 123</p>	<p>KENYA SIGN LANGUAGE FOR THE DEAF First Name: Angel Last Name: White Phone Number: Any of local telecoms line Email: angel@gmail.com Password: 123</p>
<p>ENGLISH First Name: Joan Last Name: Underwood Phone Number: Any of local telecoms line Email: joan@gmail.com Password: 123</p>	<p>INDIGENOUS LANGUAGES First Name: Natalie Last Name: Zimmerman Phone Number: Any of local telecoms line Email: natalie@gmail.com Password: 123</p>
<p>MATH First Name: Homer Last Name: Alexander Phone Number: "" "" "" Email: homer@gmail.com Password: 123</p>	<p>ENVIRONMENTAL ACTIVITIES First Name: Ken Last Name: Stevenson Phone Number: "" "" "" Email: ken@gmail.com Password: 123</p>

<p>HYGIENE AND NUTRITION First Name: Claire Last Name: Newman Phone Number: Any of local telecoms line Email: claire@gmail.com Password: 123</p>	<p>RELIGIOUS EDUCATION First Name: Clyde Last Name: Rhodes Phone Number: Any of local telecoms line Email: clyde@gmail.com Password: 123</p>
<p>MOVEMENT AND CREATIVE ACTIVITIES First Name: Brendan Last Name: Morgan Phone Number: Any of local telecoms line Email: brendan@gmail.com Password: 123</p>	<p>CLASS TEACHER 1B First Name: Andres Last Name: Sanchez Phone Number: Any of local telecoms line Email: clyde@gmail.com Password: 123</p>

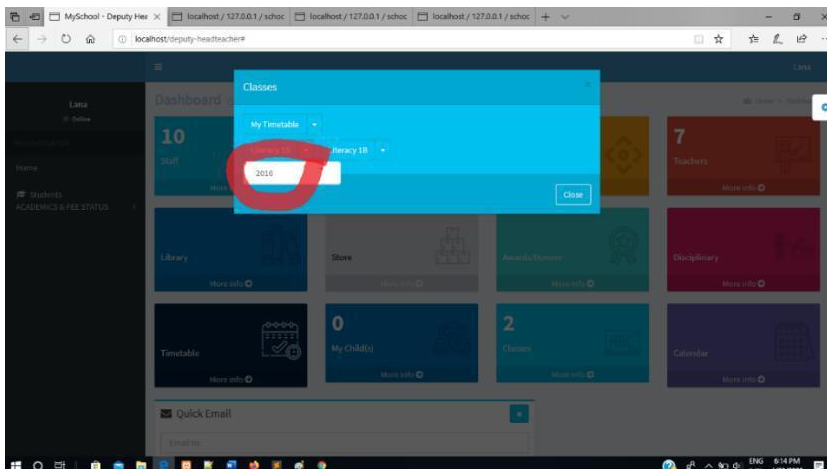
Swahili and Kenya Sign Language for the Deaf are optional subjects, so we shall toggle as per preference.

2. ASSIGNING ROLE (TEACHER) FROM HEAD TEACHER ACCOUNT

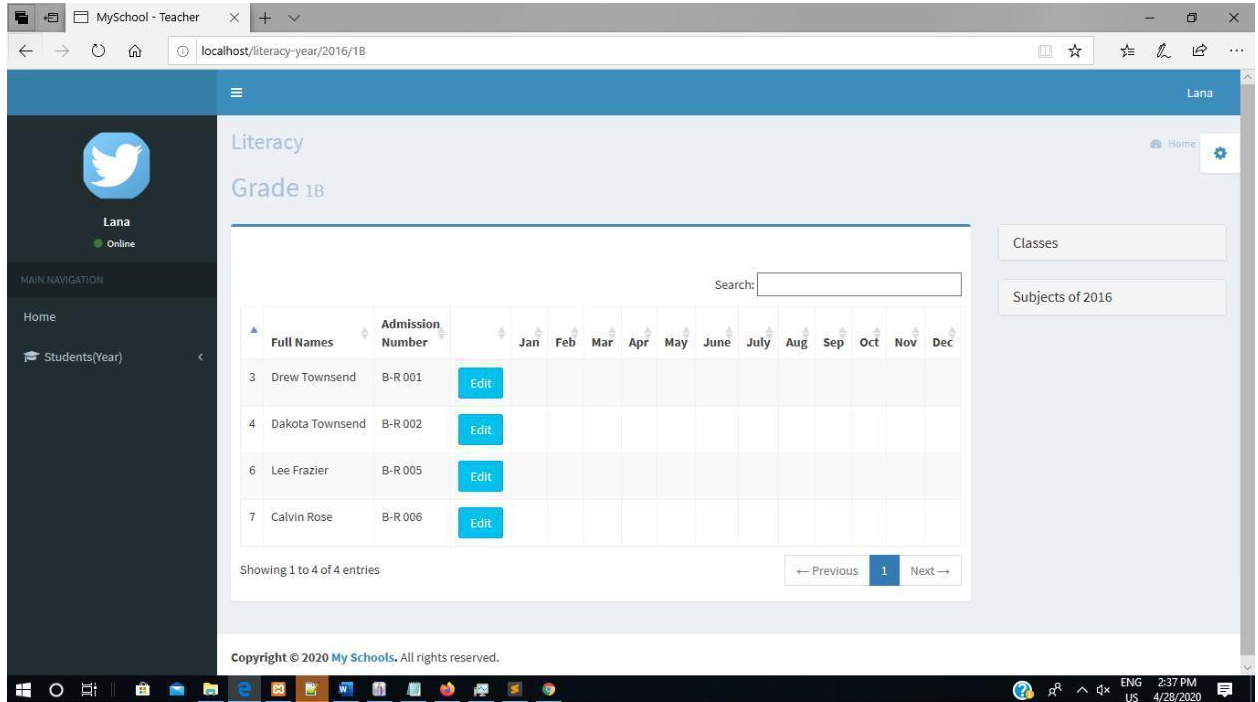
Assume I have registered all the above individuals as users, then switched to Head Teacher account and selected them as teachers of Grade 1 Blue and Green as per their respective subjects.

3. TEACHER LOGIN & DASHBOARD

Let's start with Linda, Literacy teacher. Let's login, click "Classes" tab and go to the Literacy buttons as shown in the picture below:



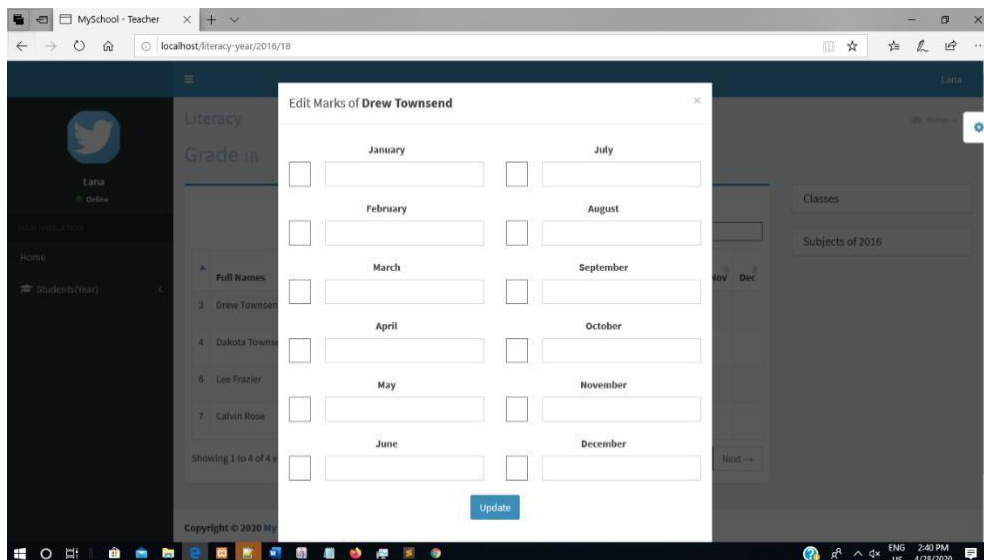
The above picture is identical to the one on page 35. All we did at that time was ensure that the subjects assigned to Linda would reflect in her dashboard with only the year(s) by which they were assigned. We did not advance from there. Now is the perfect time to click on Literacy 1B and proceed to the students' page.



Linda has a list of all students in Grade 1B.

4. TEACHER UPDATE EXAM MARKS

Linda can register a student's marks by clicking on the "Edit" tab.



This pops up a window for registering the selected student's marks. Can be any given month of the year.

Note: The teacher in session will be logged by the system and when the Deputy/Head Teacher or Parent views the "Remarks" button of his/her child as described in page 16, the details of the teacher who updated the marks and comment for that month will be visible. This is for easy reference for the Parent and the Deputy/Head Teacher

In the live production, the teacher cannot go back to a month in the past to change marks or comments. This also enforces system integrity

I have filled in Lee's marks of the first three months as follows:

	Marks	Comments
January	68	Fair
February	70	Good
March	72	Good

Assuming my Comments are guided by the following criteria: 0-50(Poor), 50-60(Can do better), 60-70(Fair), 70-80(Good), 80-100(Excellent)

This then shows in the students' page as follows:

The screenshot displays a web application interface for a teacher named Lana. The main content area shows a table of student marks for the month of March. A green notification banner at the top of the table area reads "Successfully updated marks/remarks of Lee Frazier". The table has columns for Full Names, Admission Number, and months from Jan to Dec. The table shows Lee Frazier (Admission Number B-R 005) with marks of 68 in January, 70 in February, and 72 in March. The interface also shows a sidebar with "Lana" profile and "Students(Year)" navigation, and a right sidebar with "Classes" and "Subjects of 2016" sections.

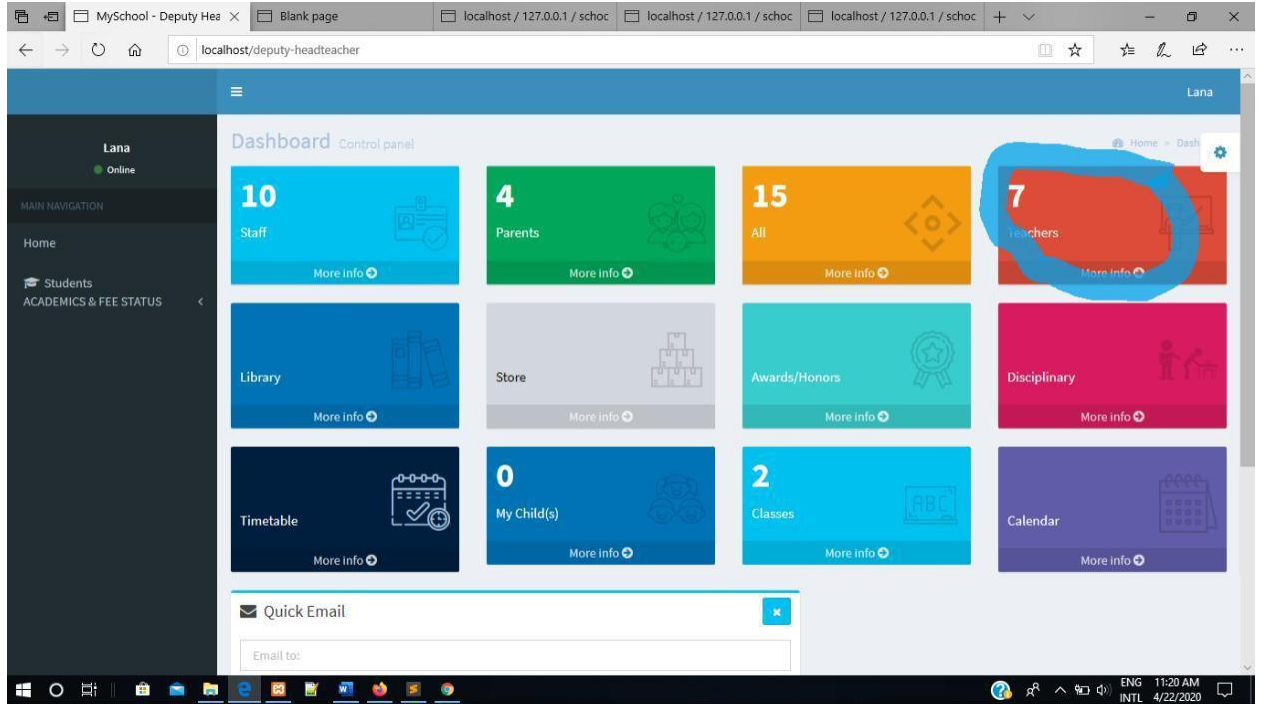
We find Lee's marks have been successfully entered.

That is all that it takes to enter a student's marks from a teacher.

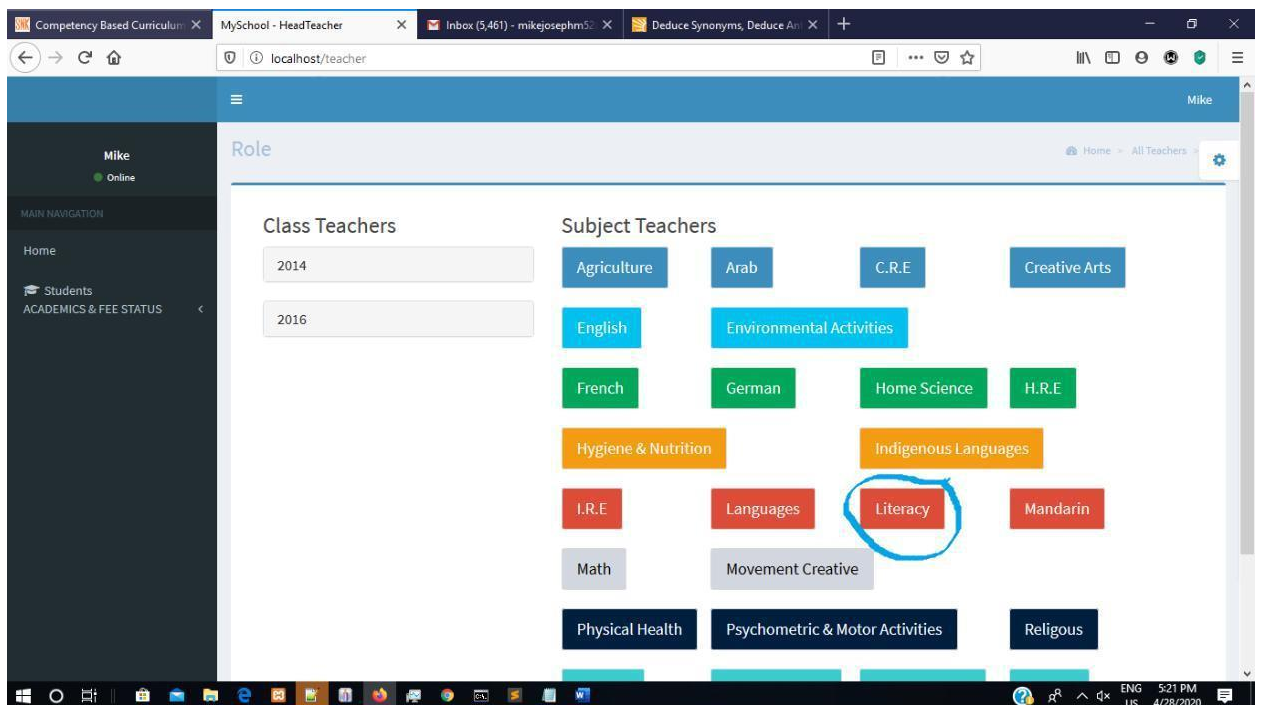
A quick math deduces that the average of 68, 70 and 72 is 70.

5. DEPUTY & HEAD TEACHER VIEW OF STUDENT(S) ACADEMIC PERFORMANCE

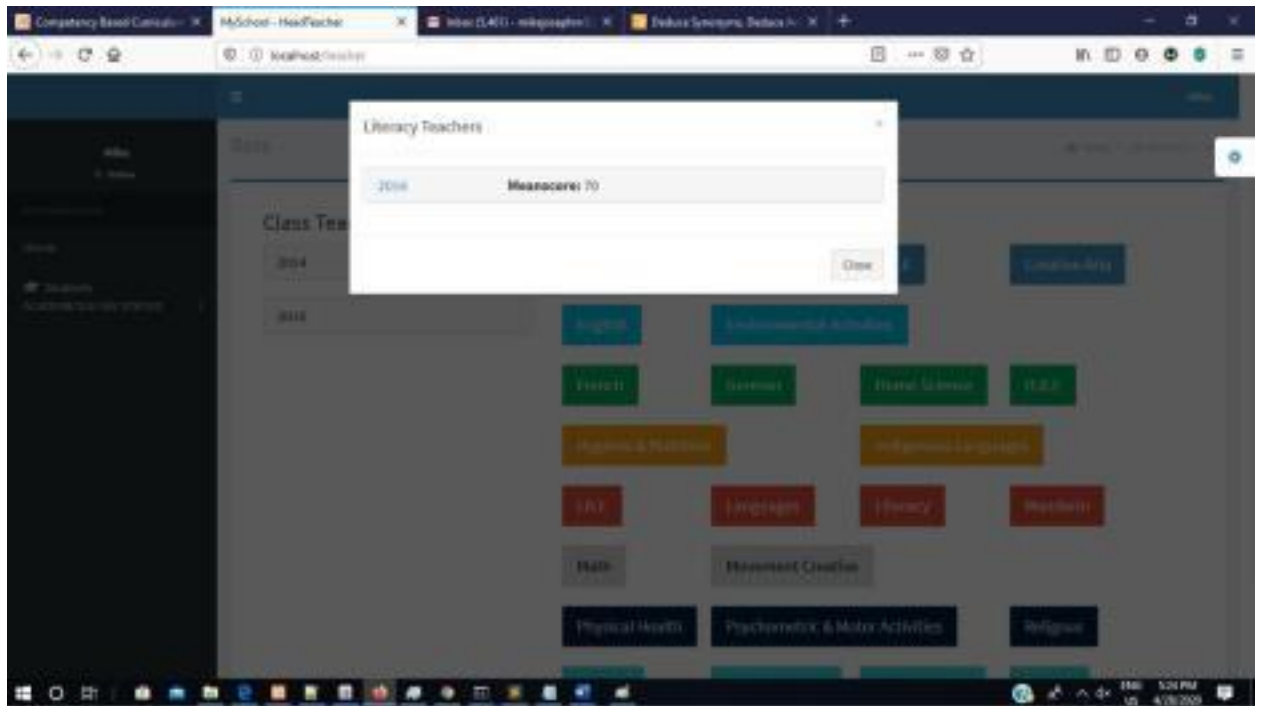
Let's switch to the Head Teacher's Account and go to the red colored "Teachers" tab.



On the next page, click the "Literacy" tab circled in blue.



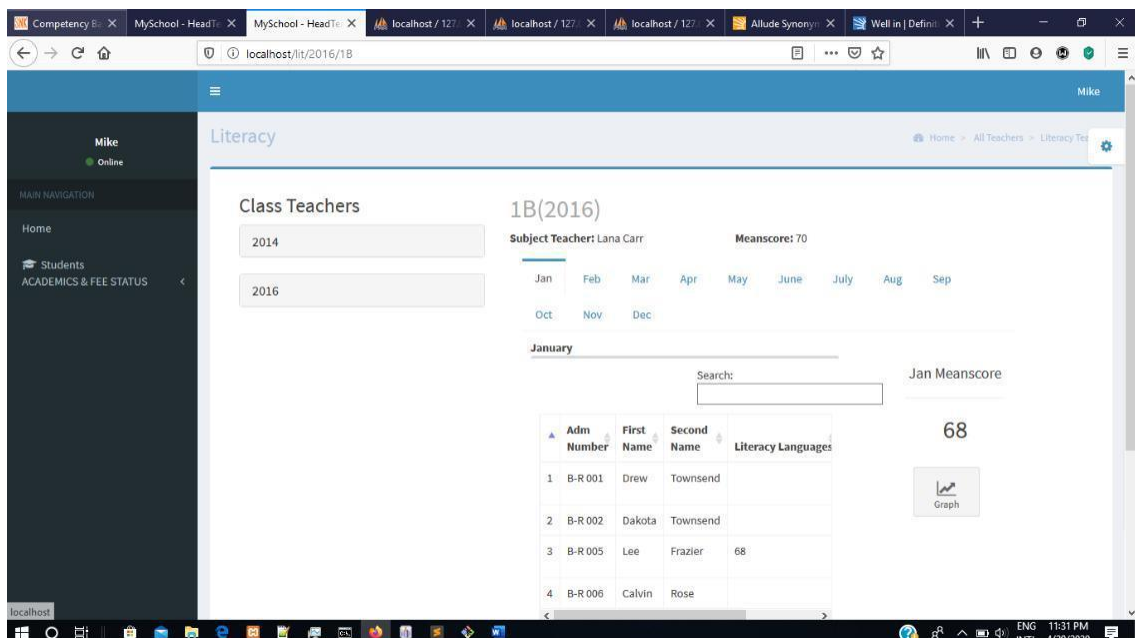
This pops up the following page:



Alas! The 70 mark as mean score is found updated on this end.

Super Important to note that this is a general mean score of the subject Literacy across the entire school for the year 2016. Adding others' marks gravitates the mean score figure to the actual aggregate for all the marks

On the dropdown, click on 1B.



As viewed on the above picture, Lee's January marks is seen under the "Jan" tab which is the default tab. To view February and March marks, toggle across the tabs above the table.

The "Graph" tab on the right is a link to a line graph on the stream's performance on Literacy as per the selected month.

6. CLASS TEACHER VIEW OF STREAM'S ACADEMIC PERFORMANCE

Let's now view the students' marks in totality aside from Literacy. Go to the left and click on the "2016" link circled in red.

Important to note, the years represent classrooms(streams) per active year in school, meaning that, that year had a class teacher assigned to a stream, either as class teacher of blue or green in its respective grade

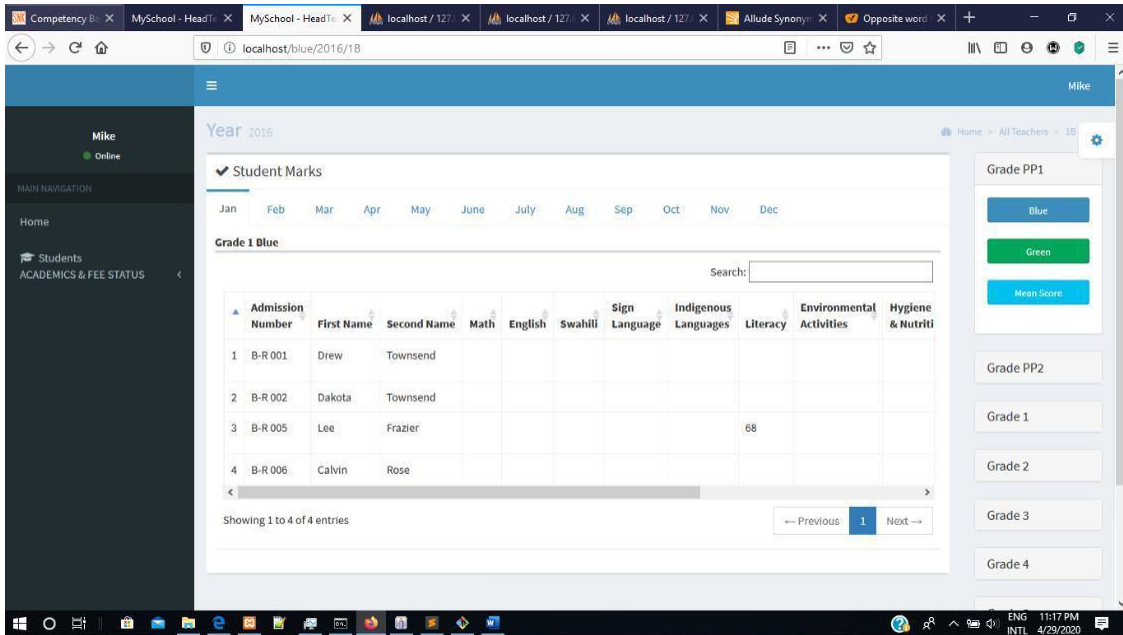
Adm Number	First Name	Second Name	Literacy Languages
1 B-R 001	Drew	Townsend	
2 B-R 002	Dakota	Townsend	
3 B-R 005	Lee	Frazier	68
4 B-R 006	Calvin	Rose	

The link is a drop down to the various grades.

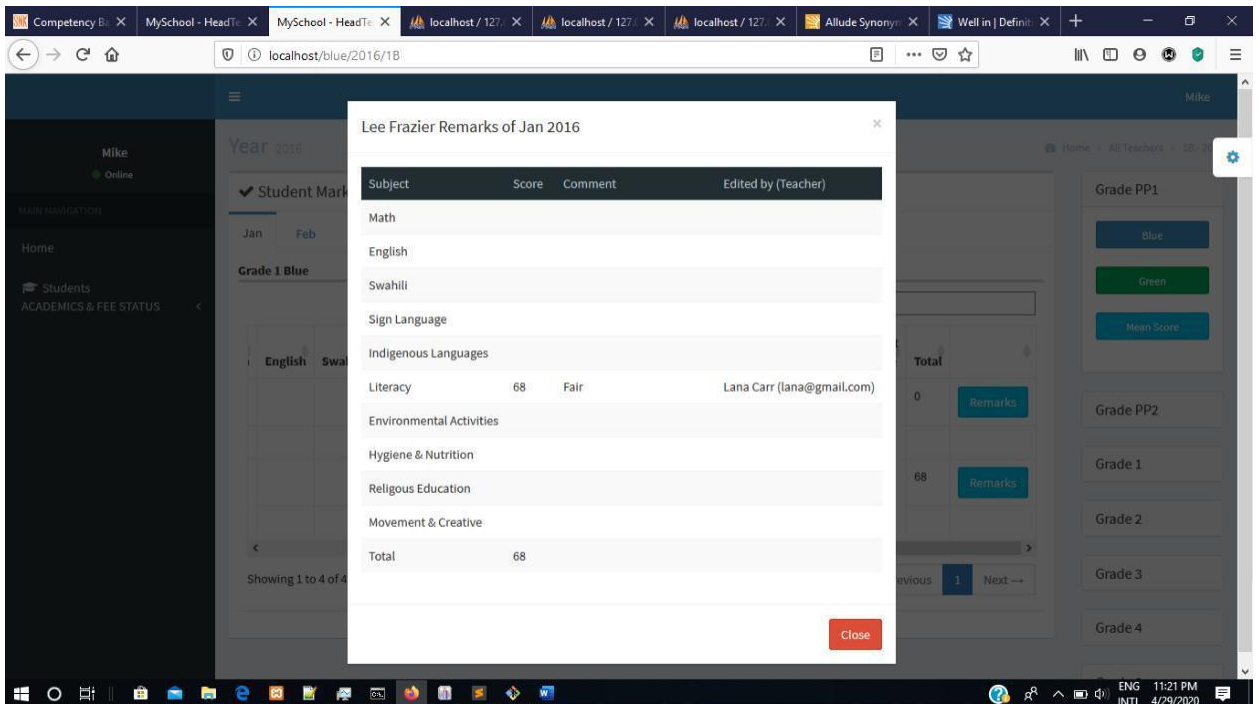
Each grade is a drop down to two streams and the mean score head-to-head of both streams. Click on Grade 1 > Blue

NB: Super important to note that the view that follows is also identical for a Class Teacher appointed by the deputy or head teacher. As of this moment, we are in the session of the Head Teacher. Any Class Teacher has access to his/her class academic records by going to the "Class" tab and selecting his/her class in the pop-up as similar to the pop-up on page 54.

This takes us to the following page:



As viewed on the above picture, Lee’s January marks is seen under the “Jan” tab which is the default tab. To view February and March marks, toggle across the tabs above the table. Scroll horizontally to the right and get to the “Remarks” button. Click to view the following page:



The above page was hinted lightly on in page 16 when going over the Academics module.

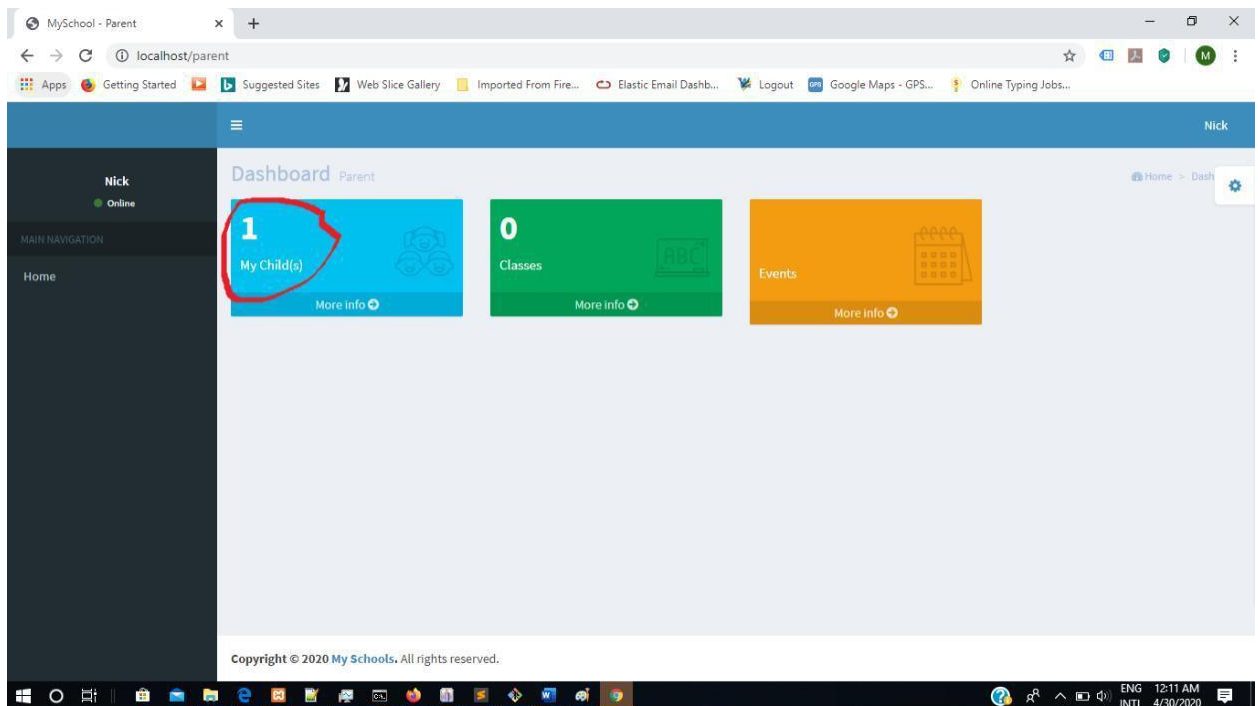
This brings us to the end of the Deputy or Head Teacher’s and Class Teacher’s perspective on a students’ performance as viewed based on Subject or as under their respective Stream. Both views are protracted across the entire year, divided by months.

A line graph is availed for a perspective on a Subject and a bar graph is availed for a perspective on a Grade with both streams matched.

So far, so good with the Deputy or Head Teacher and Class Teacher on that area. Let’s delve into the parent of Lee.

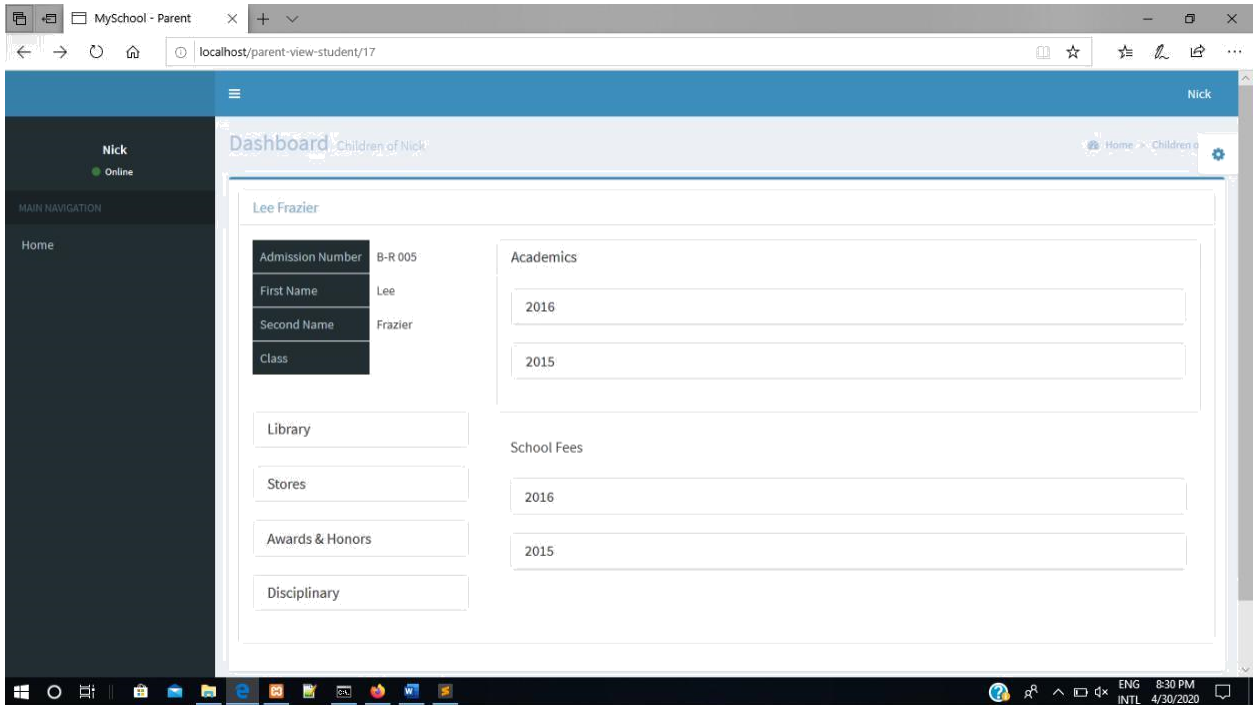
How does Mr. Nick look up on the progress of his son Lee as from Linda’s update of Lee’s marks in Literacy?

7. PARENTS VIEW OF CHILD(REN) ACADEMIC PERFORMANCE Let’s login to Nick’s account



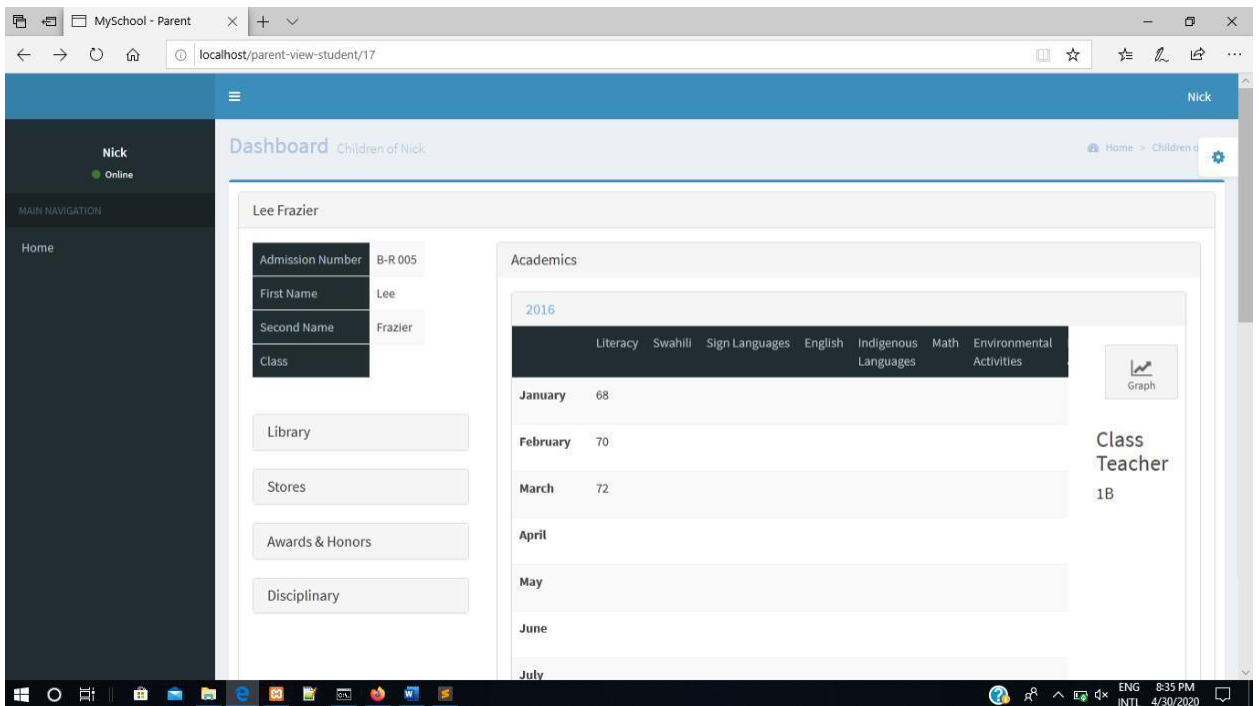
The light blue tab circled in red is labelled “My Child(s)”.

Mr. Nick has one child, Lee, as admitted by the Registrar in page 44 and linked up to him in page 48 thus the number 1 on the tab. Click on the tab

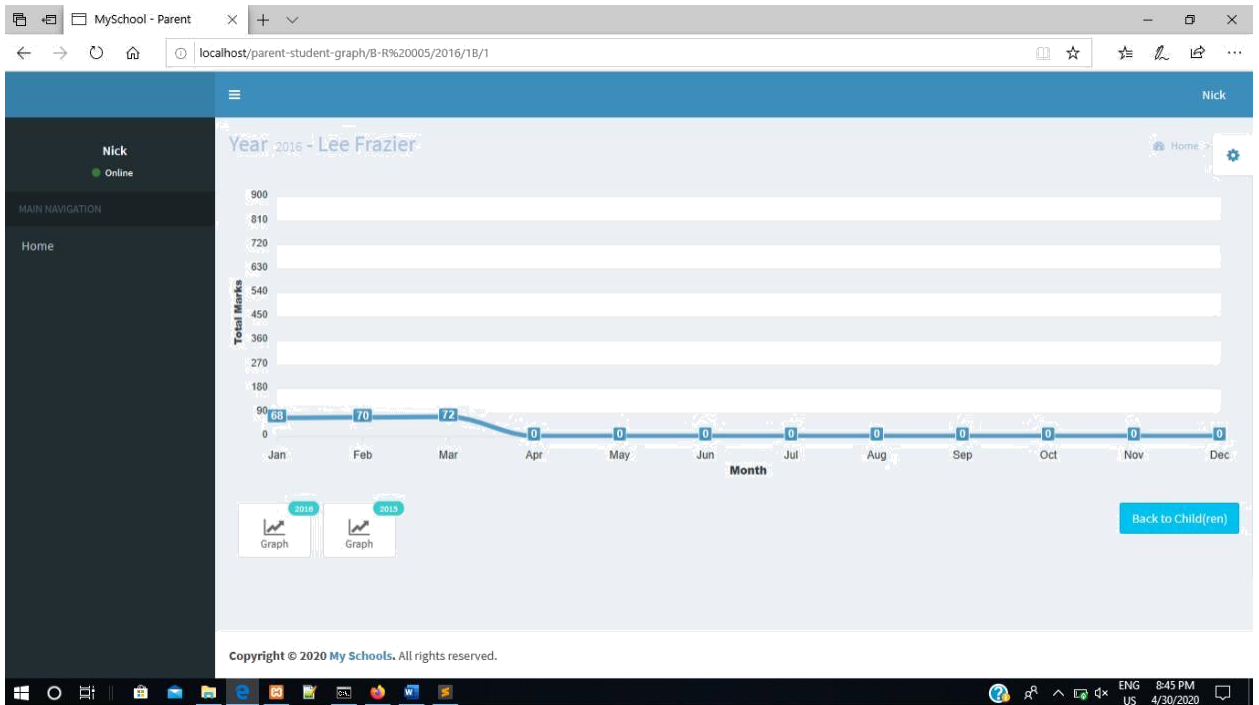


The above page covers every aspect of Lee's affairs in school.

Nick can view Lee's academics and school fees records for the two years Lee has been in school. A drop down to any of the year under Academics shows performance of Lee throughout the year, a line graph is available on its far-right side to visualize the data.



The line graph is illustrated as below:



We have now fully covered a parent’s view on a child’s academic progress. Click on the light blue button on the far right labelled “Back to Child(ren)”. This takes us back to the child’s window.

Again, click on Lee Frazier and head to the “School Fees” drop down.

Lee Frazier

Admission Number: B-R005
 First Name: Lee
 Second Name: Frazier
 Class:

Library
 Stores
 Awards & Honors
 Disciplinary

Academics

2016
 2015

School Fees

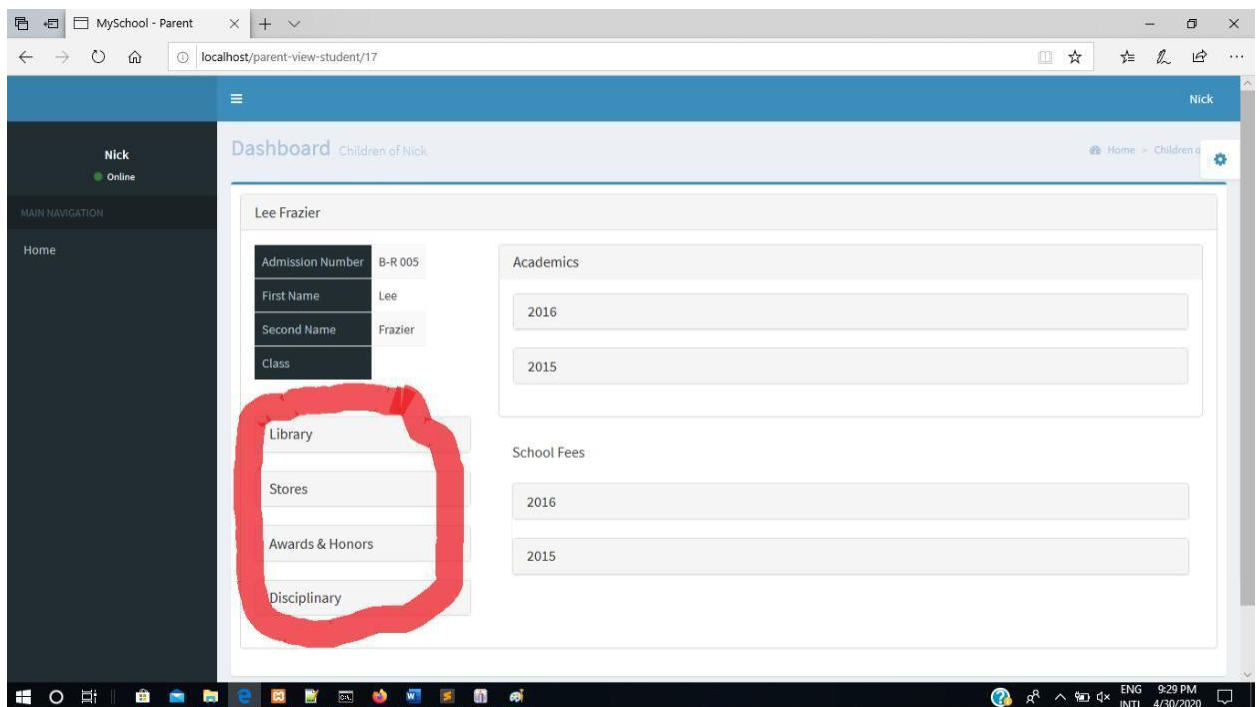
2016

	Term 1			Term 2			Term 3		
	Amount	Paid	Balance	Amount	Paid	Balance	Amount	Paid	Balance
Tuition	15000	10000	5000		0	0		0	0
Boarding		0	0		0	0		0	0
Lunch		0	0		0	0		0	0
Bus		0	0		0	0		0	0

The above picture, is a reflection of the school fees statements of Lee as of that selected year. Recall in page 52, the Bursar was updating Tuition Fee payment of Lee in First Term. This is now mirrored in this page for the parent.

At this point we have exhaustively covered the Academics and School Fees view of a parent on his/her child.

The other areas of school affairs as circled by a red marker in the picture below, are a result of the actions of the Librarian, Storekeeper and Discipline Master, each of whom we are about to cover in the next section.



LIBRARIAN

1. LIBRARIAN REGISTRATION

Let's register a user and activate him from the Head Teacher All Users module as a Librarian

I will use the following credentials:

First Name: Tyler

Second Name: Henderson

Phone Number: Any of local telecoms line

Email: tyler@gmail.com

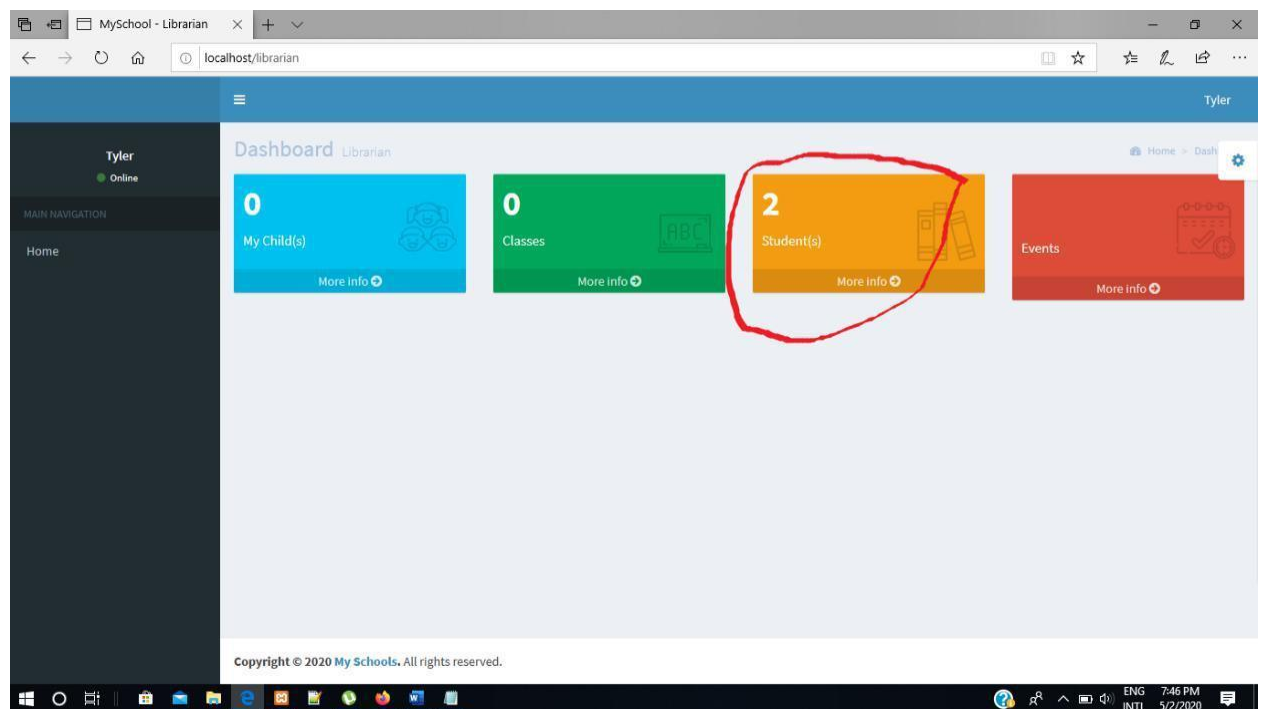
Password: 123

2. ASSIGNING ROLE (LIBRARIAN) FROM THE HEAD TEACHER ACCOUNT

Next, let's move to the Head Teacher All Users module under the tab "All" and appoint Tyler as our librarian.

3. LIBRARIAN LOGIN & DASHBOARD

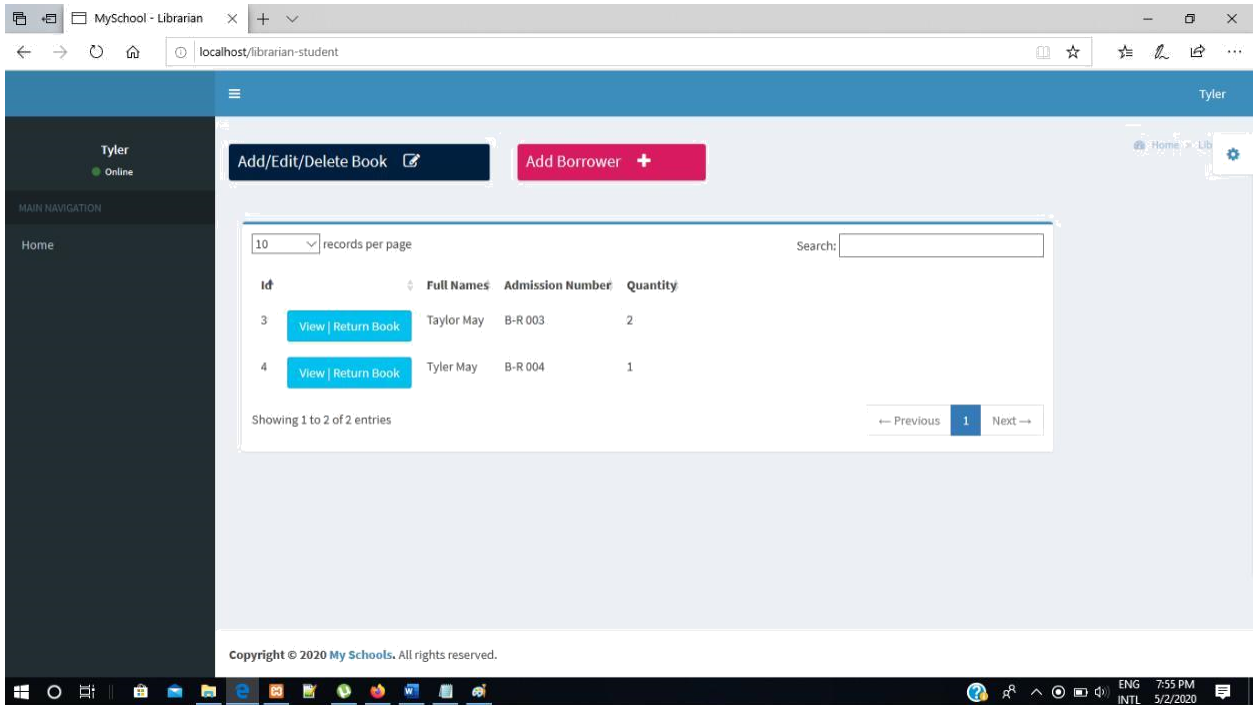
On login as Tyler, again we find "My Child(s), Classes and Events" tabs.



The dashboard of the Librarian has few tabs as that of the Registrar and the Bursar. The difference lies in the absence of the dropdown menu on the left and the use of a "Student(s)" tab as circled in red above.

This is because borrowing of books is independent of the year aspect. We can have a year with absolutely no book borrowed and vice versa. It is unidimensional data.

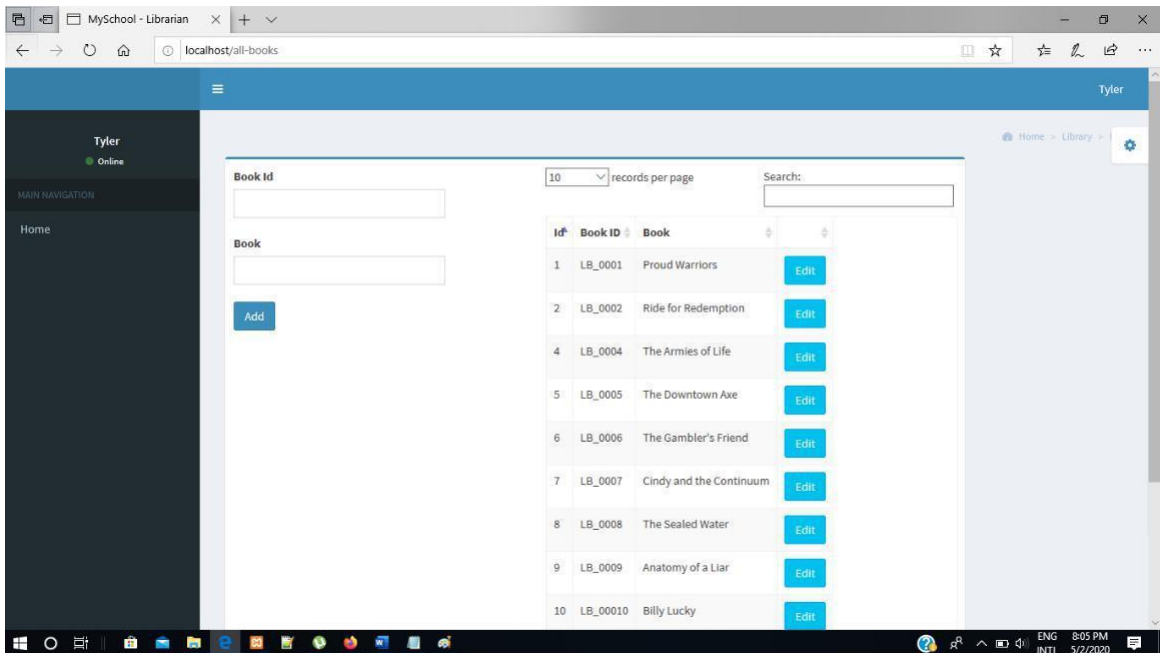
Let's click on the tab "Student(s)"



This gets us to a table containing student(s) who have borrowed books and are yet to return it. There are two vividly colored tabs above the table namely “Add/Edit/Delete Book” and “Add Borrower”.

4. ADD/EDIT/DELETE BOOK

The “Add/Edit/Delete Book” tab is a button to a page for adding a book as displayed in the picture below:



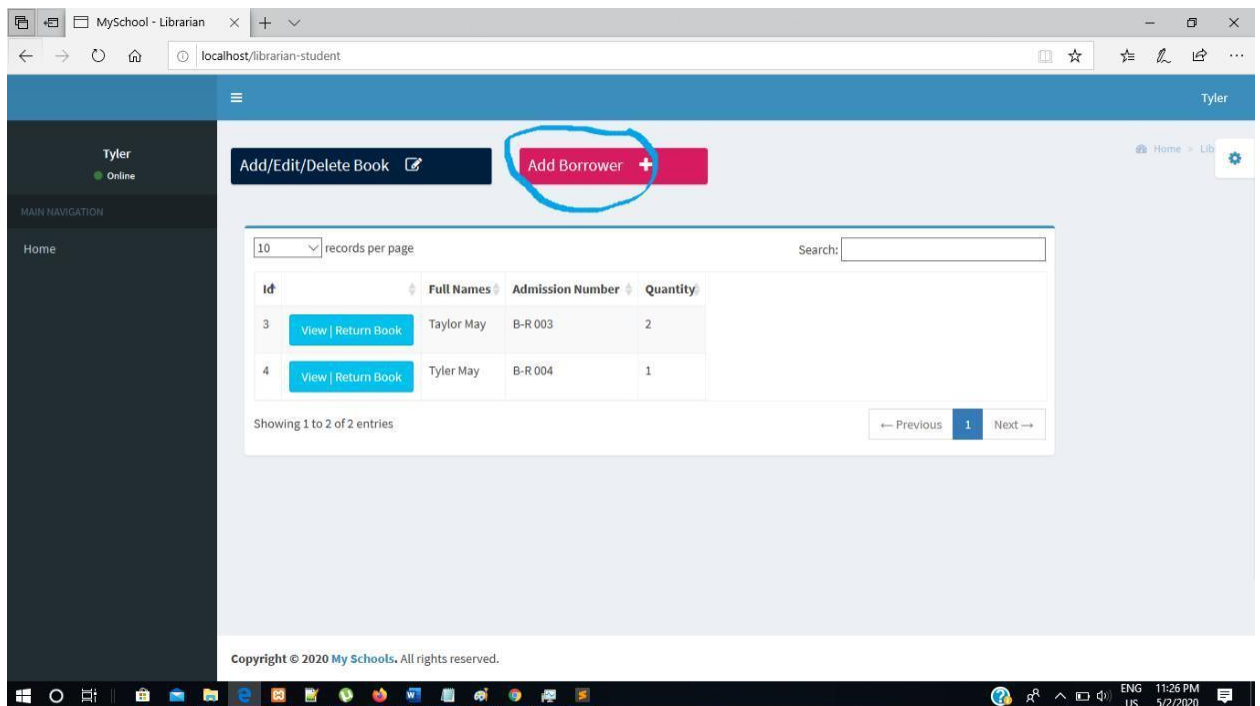
On the left side is a form for adding a new book. Each book is uniquely identified by a Book ID. Adding a book with a Book ID of another book that is already in the system will be unsuccessful and will throw an alert to pick another ID.

On the right side is a window for managing all the books added. The “Edit” button facilitates making changes to a book and also to delete a book from the library.

It is in this module where a book deleted, will reflect in pink in the Deputy or Head Teacher overview of the Library as mentioned in page 28.

5. ADD BORROWER

Go back to the dashboard and click on the pink tab labelled “Add Borrower” circled in a blue marker as pictured below:

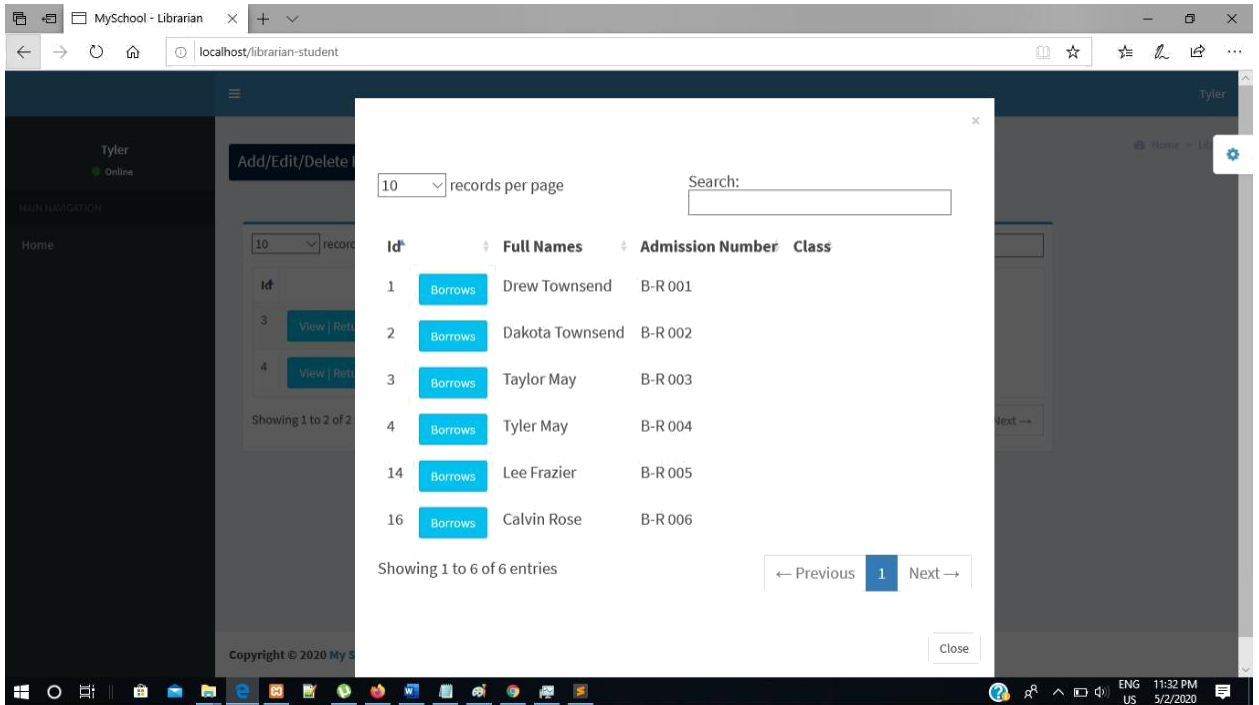


The screenshot shows a web browser window with the URL localhost/librarian-student. The interface has a dark blue header with the name 'Tyler' and a 'Home > Lib' breadcrumb. Below the header, there are two buttons: 'Add/Edit/Delete Book' and 'Add Borrower +'. The 'Add Borrower +' button is circled in blue. Below the buttons, there is a table with columns 'id', 'Full Names', 'Admission Number', and 'Quantity'. The table contains two rows of data. At the bottom of the table, it says 'Showing 1 to 2 of 2 entries' and has navigation buttons for 'Previous', '1', and 'Next'.

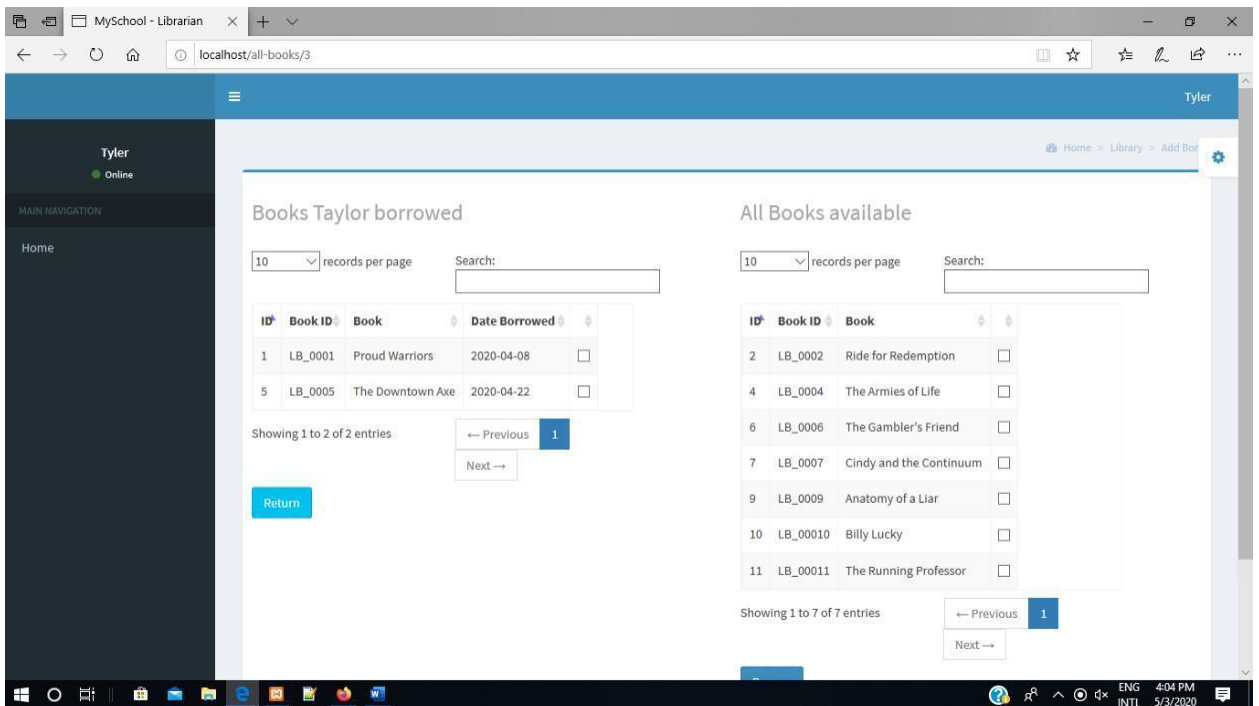
id	Full Names	Admission Number	Quantity
3	Taylor May	B-R-003	2
4	Tyler May	B-R-004	1

A pop-up with a table of all the students displays, each with a button to borrow a book alongside.

This is as shown in the picture on the next page.



Click on Taylor May’s “Borrows” button as an example.
This takes us to the following page:



This page shows all the books borrowed by Taylor. The left side shows books Taylor borrowed with an option for “Return” button to return the books Taylor borrowed as per selection.

The right side is a table of all the books available for further borrowing or first time borrowing.

We have now covered the Librarian module exhaustively.

STOREKEEPER

1. STOREKEEPER REGISTRATION

Let's register a user and activate him from the Head Teacher All Users module as a Storekeeper

I will use the following credentials:

First Name: Jessica

Second Name: Murphy

Phone Number: Any of local telecoms line

Email: jessica@gmail.com

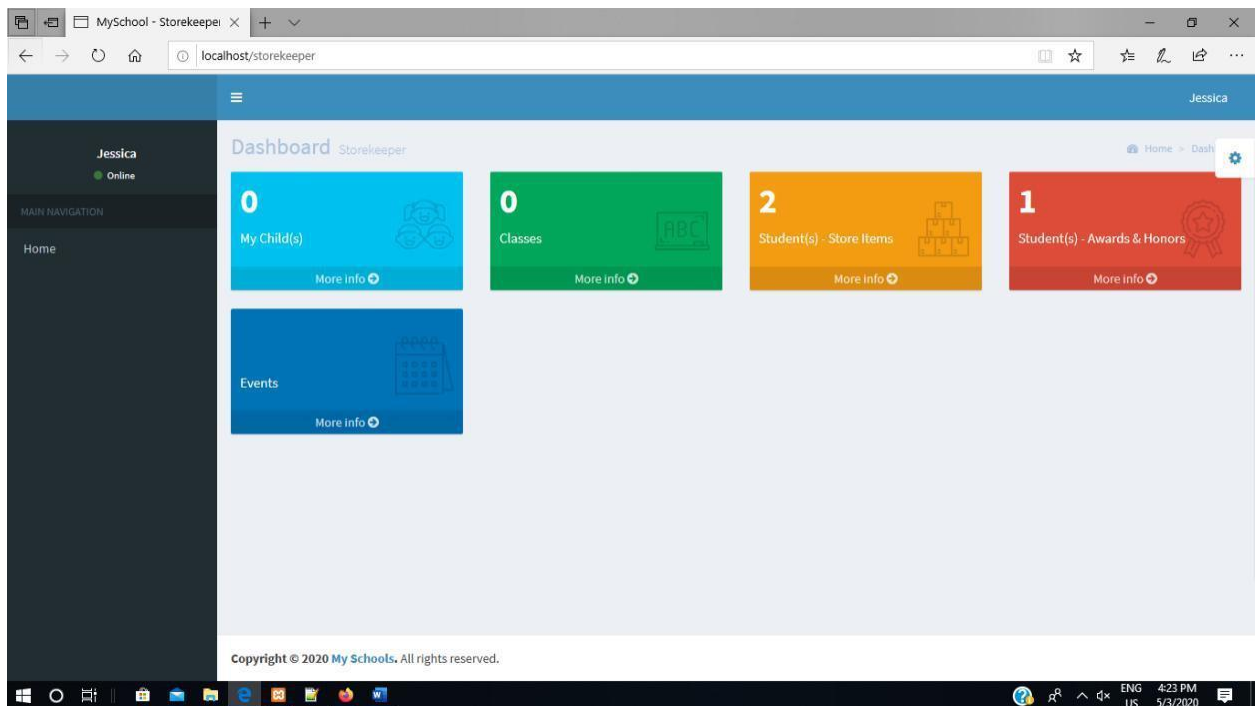
Password: 123

2. ASSIGNING ROLE (STOREKEEPER) FROM THE HEAD TEACHER ACCOUNT

Next, let's move to the Head Teacher All Users module under the tab "All" and appoint Jessica as our storekeeper.

3. STOREKEEPER LOGIN & DASHBOARD

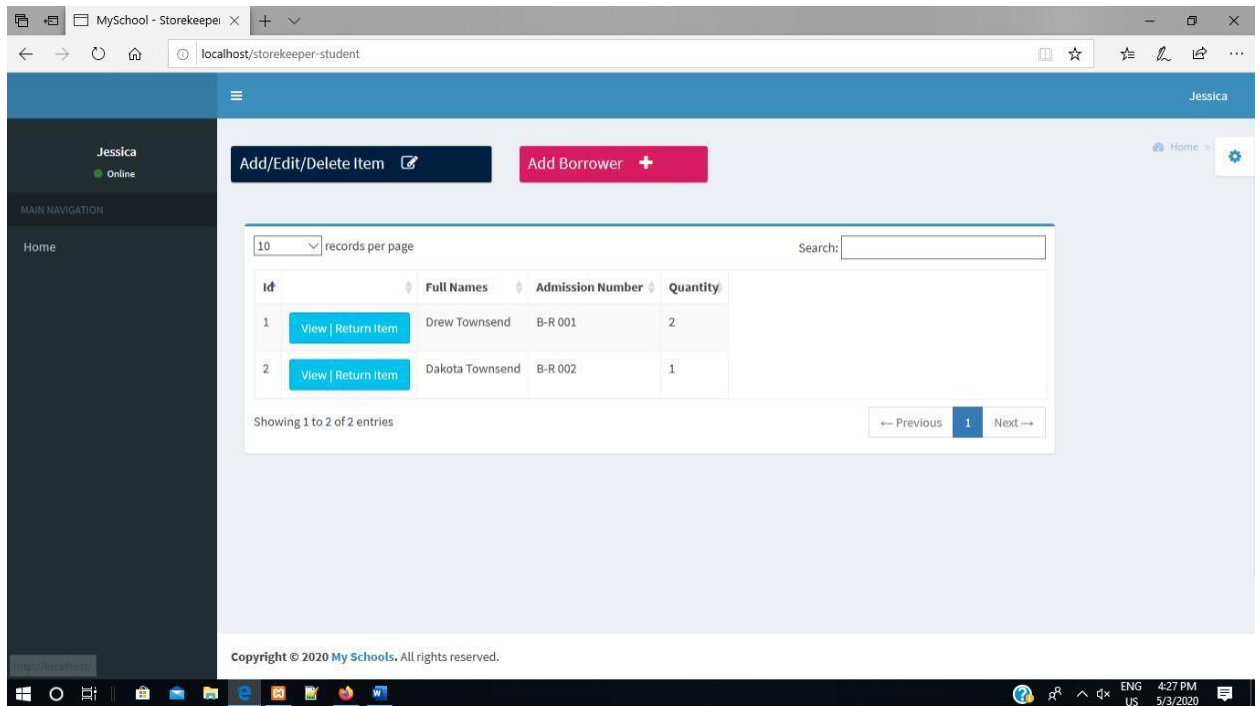
On login as Jessica, again we find "My Child(s), Classes and Events" tabs.



On the storekeeper's dashboard, we have two tabs namely "Student(s) - Store Items" and "Student(s) - Awards & Honors".

4. ADD/EDIT/DELETE ITEM

Click on the “Student(s) - Store Items” tab, this will take us to the following page:



The screenshot displays the 'Add/Edit/Delete Item' page in the MySchool - Storekeeper application. The page features a sidebar on the left with a user profile for 'Jessica' (Online) and a 'Home' link. The main content area has a top navigation bar with 'Add/Edit/Delete Item' and 'Add Borrower' buttons. Below this, there is a search bar and a table with the following data:

Id	Full Names	Admission Number	Quantity
1	Drew Townsend	B-R 001	2
2	Dakota Townsend	B-R 002	1

Each row in the table has a 'View | Return Item' button. The table is paginated, showing 'Showing 1 to 2 of 2 entries' and navigation buttons for 'Previous', '1', and 'Next'. The footer of the page reads 'Copyright © 2020 My Schools. All rights reserved.'

This page is similar to that of the operations of the Librarian in his/her operations. The “Add/Edit/Delete Item” button leads to the inventory management module.

Any item deleted therein reflects in pink in the Deputy or Head Teacher overview of the Storekeeper as mentioned in page 29.

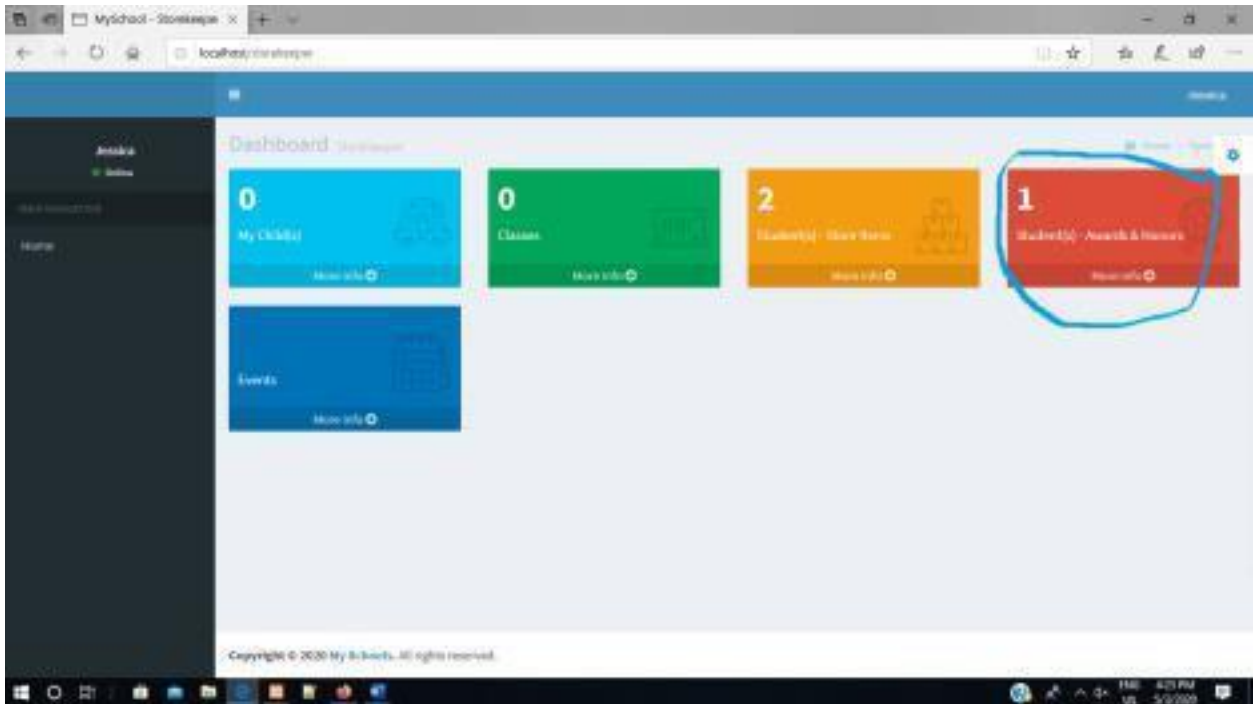
5. ADD BORROWER

The “Add Borrower” button pops up a list of all the students with each having a button “Borrows”. On clicking the “Borrows” button of say Drew Townsend, it takes us to a page showing all the school items borrowed by Drew on the left side, and a list of the available items in store on the right side. A “Return” button is also available to return the item(s) borrowed by Drew.

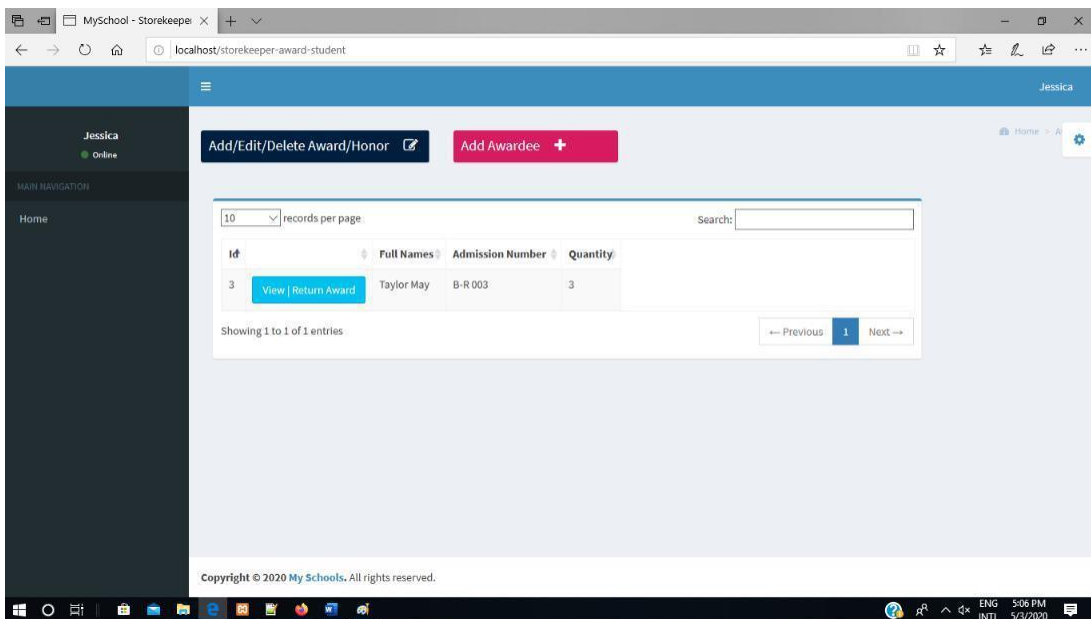
This marks the end of the Inventory module.

6. ADD/EDIT/DELETE AWARD/HONOR

Let's check out the Awards and Honor's module. Find your way back to the dashboard and click on the "Student(s) - Awards & Honors" tab circled in blue.

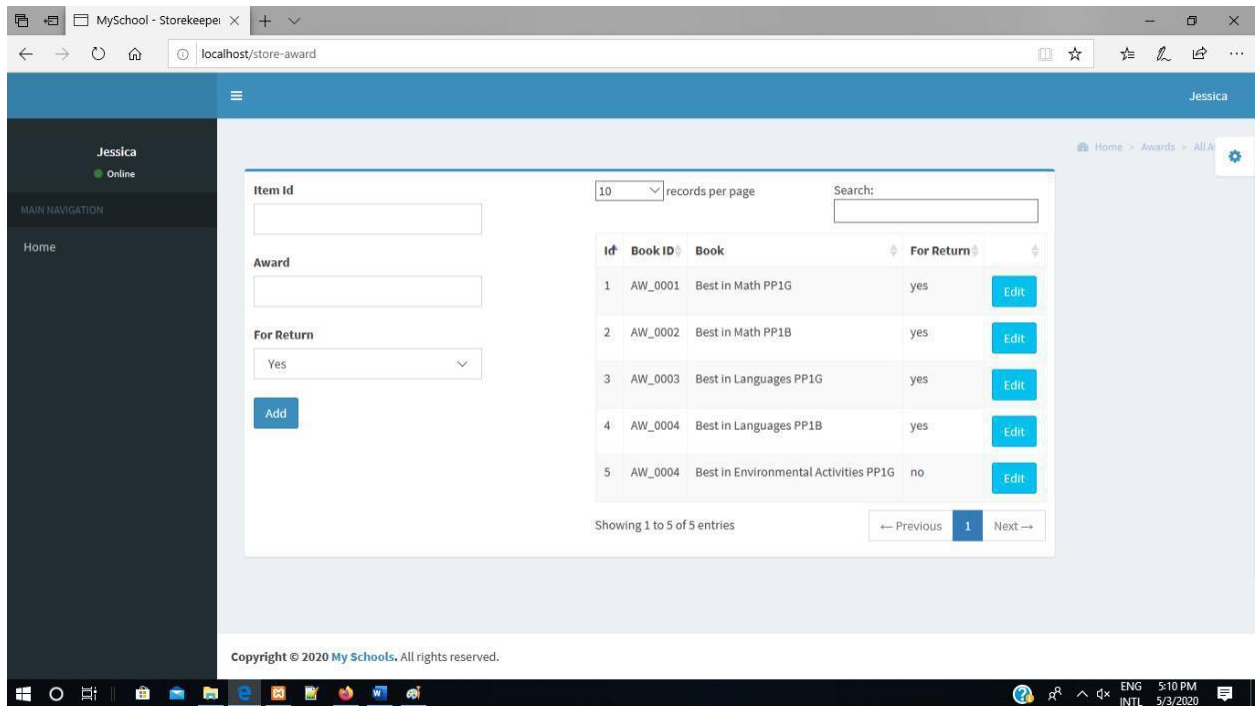


This takes us to the following page:



This page is similar to the previous one of the Storekeeper Items.

The “Add/Edit/Delete Award/Honor” button leads to the page managing all the awards and honors on the pedestal.



The major difference between the Inventory and the Awards page is the element of return. For instance, a rugby ball borrowed is meant for return so that other students may use it while a trophy awarded for best Science student may not be meant for return.

Any item deleted therein reflects in pink in the Deputy or Head Teacher overview of the Storekeeper as mentioned in page 30.

7. ADD AWARDEE

The “Add Awardee” button pops up a list of all the students with each having a button “Award”.

On clicking the “Award” button of say Taylor May, it takes us to a page showing all the school awards awarded to Taylor on the left side, and a list of the awards available in store on the right side. A “Return” button is also available in the event an award is meant for return to the pedestal.

This marks the end of the Awards/Honors module.

We have now covered the entire Storekeeper module exhaustively.

DISCIPLINE MASTER

1. DISCIPLINE MASTER REGISTRATION

Let's register a user and activate him from the Head Teacher All Users module as a Discipline Master

I will use the following credentials:

First Name: Alfredo

Second Name: Sanders

Phone Number: Any of local telecoms line

Email: alfredo@gmail.com

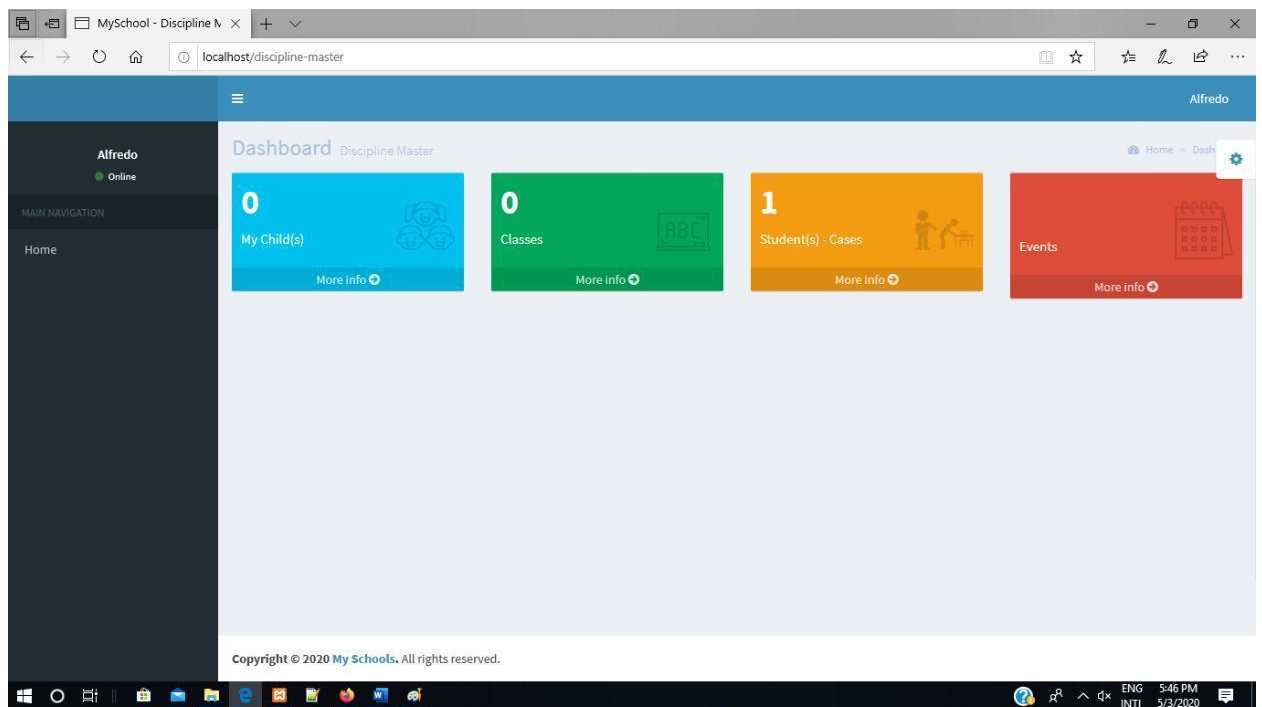
Password: 123

2. ASSIGNING ROLE (DISCIPLINE MASTER) FROM THE HEAD TEACHER ACCOUNT

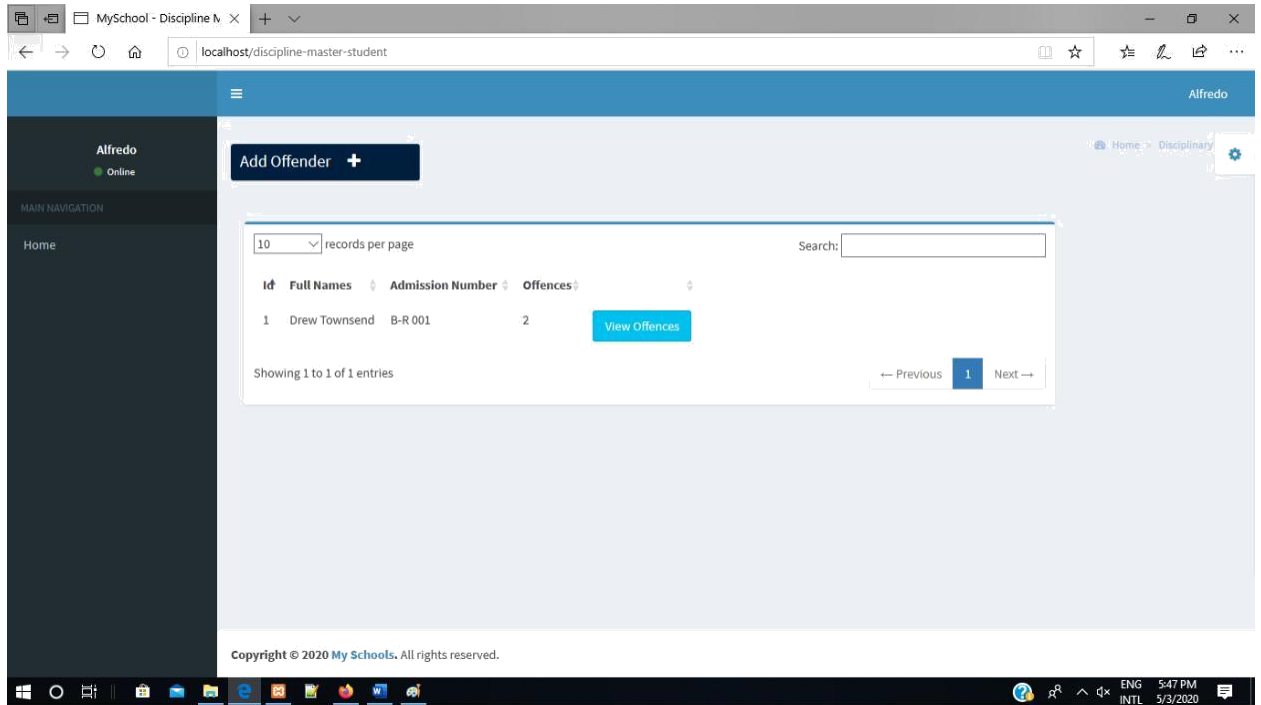
Next, let's move to the Head Teacher All Users module under the tab "All" and appoint Alfredo as our Discipline Master.

3. DISCIPLINE MASTER LOGIN & DASHBOARD

On login as Alfredo, again we find "My Child(s), Classes and Events" tabs.



The main tab of interest is the "Student(s) - Cases" tab. Click on it to get to the following page:



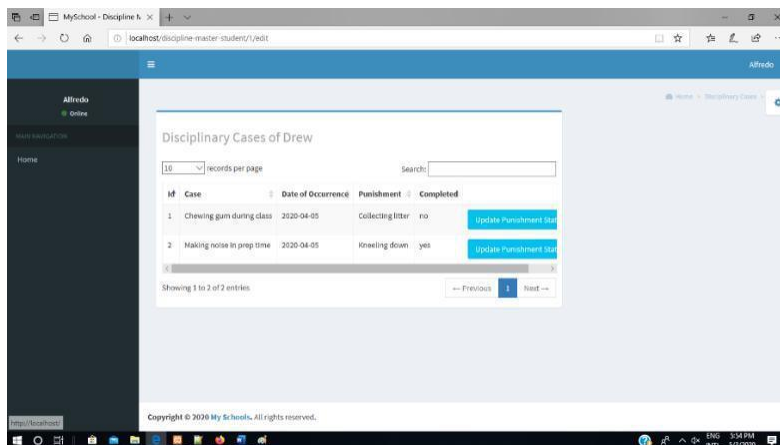
This page displays disciplinary cases of students.

4. ADD OFFENCE

The “Add Offender” tab as it suggests adds a student’s case to the record. Attributes to the new record are the offence description, the date of occurrence and the punishment meted.

Each case can be viewed by the “View Offence(s)” tab alongside each student’s record. A student may have more than one offence.

This takes us to the student’s past cases in the following page:



An update can be made on whether the punishment was done or not on click of the “Update Punishment Status” button against each offence. This sums up the Discipline Master module.

We have now fully covered the entire system.
This brings us to the end of this guide.

I applaud you for your patience, giving your kind attention to this rigorous guide and making it to the end. I deeply value your involvement.

I also extend an opportunity to partner with you to translate this simulation into a real live set up, and see how we can increase dispensation of information in our school systems .

If you might have any questions or concerns, email to mikejosephm52@gmail.com.
God bless you abundantly.

THE END