

Marks User Manual

Project: Marks
CLIENT: J.M NTSIME H.S

COS 730 Software Engineering

Kgomotso Sito u12243273

DEPARTMENT OF COMPUTER SCIENCE, UNIVERSITY OF PRETORIA

Contents

1	Ger	neral In	formation																3
2	Sys	tem Ov	verview																3
3	Sys	tem Co	onfiguration																3
4	Use	r Acce	ss Levels																3
5	Inst	alling																	4
6	Dep	oloyme	nt model																4
7	Get	ting St	arted																5
	7.1	Registe	er an account															 	5
	7.2	Log in																 . .	6
	7.3	Log ou	t		•				•	•			 •	•	•			 	6
8	Usi	ng The	System																7
	8.1	User N	Ianagement															 	7
		8.1.1	View Users															 	7
		8.1.2	Add or Edit Users	· .														 	7
		8.1.3	Deactivate Users															 	8
	8.2	Subjec	ts Mantainance .															 	8
		8.2.1	View subjects															 	8
		8.2.2	$Add\ subject\ .\ .\ .$															 	9
		8.2.3	Edit subject															 	10
		8.2.4	View enrollment .															 	10
	8.3	Marks																 	11
		8.3.1	View marks															 	11
		8.3.2	Add or Edit Mark	s.														 	12
		8.3.3	Graph Marks																13

List of Figures

1	Deployment model
2	Register screen of the website
3	Login screen of the website
4	Login screen of the website
5	View users
6	Maintain users
7	Deactivate user
8	View subjects
9	Add subject
10	Edit subject
11	List of users
12	User enrollments
13	List of subjects
14	List of Assessment
15	List of users and their marks
16	Graph summarizing marks

1 General Information

Marks application is aimed enhance the school administration process, marks management and provide school-wide view of the academics. Time and data are some of the most expensive commodities, Marks will use these commodities to improve the learners marks by saving teachers time and also school-wide view of the academics to analyze; identify key issue and see trend in the learners marks.

2 System Overview

The core of this project is to centralize the learners information; the system will allow school administrators to manage learners information as well as subjects. Teachers will be able to capture marks of their learners, learners can view their marks, previous spreadsheets of marks can be uploaded and also viewed in the system. Current data as well as legacy data can be used to provide school-wide view through graphical representations.

3 System Configuration

Marks is hosted online. Users need an Internet connection as well as a web browser to access the website. Any operating system will run fine and the website is accessible from The following browsers:

- Google Chrome
- Mozilla FireFox
- Safari
- Internet Explorer

If your browser is not listed here, the site may work with limited functionality.

4 User Access Levels

In order to use the system users have to have been added to the system as either a admin or teacher, and will be provide with a user numer e.g (A20200001, T20200028) by the administrator. Simply open the URL and register an account using the user number provided. If there is any problems, Please follow register and login details.

5 Installing

In order to use this system, users must have a browser - with Javascript enabled - installed.

6 Deployment model

The system will be able handle changes and growth and still be able to perform better if not the same, using microservices allows for components to be added to the system without compromising the system as whole. All the Spring boot micro-services will be deployed under one Microsoft Azure, as well as the GUI. The account details, credentials will be deployed separately on a Google Firebase server.

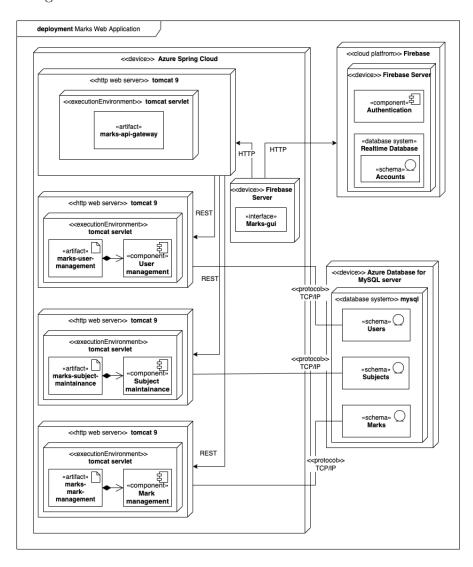


Figure 1: Deployment model

7 Getting Started

7.1 Register an account

Users will have to visit first have their details captured by an Administrator at the school, and after being provided with user number user can go login screen click register to register an account

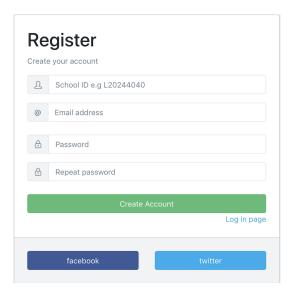


Figure 2: Register screen of the website

Enter all requested information. Click on 'Register' and await confirmation.

If any error occurs ('email address already exists' for example), try entering your details again (paying careful attention to spelling) or alternatively contact IT administrator.

7.2 Log in

After registration click on the 'Log in' button to navigate to log in screen, if you already have an account simply got to navigate to login screen.



Figure 3: Login screen of the website

Enter email address (that you entered when you registered) and click 'log in'. If you have an existing account, you will be successfully logged in to the system.

7.3 Log out

When done using the application, please do not forget to logout, see screen below

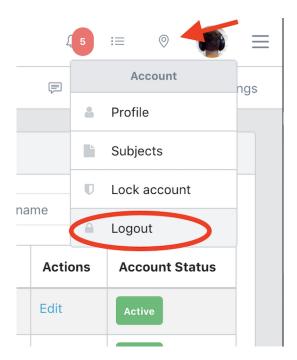


Figure 4: Login screen of the website

Clicking the logout will navigate to login screen, this will require you to supply correct credentials again should you wish to login again.

8 Using The System

8.1 User Management

8.1.1 View Users

Administrating the user information is a very easy process. Assuming that logging in has been successfully. Click on "Users" on the top-leftmost side menu bar, then click on on the type (Admin, Teacher, Learner) users you want view. You should now see this page:

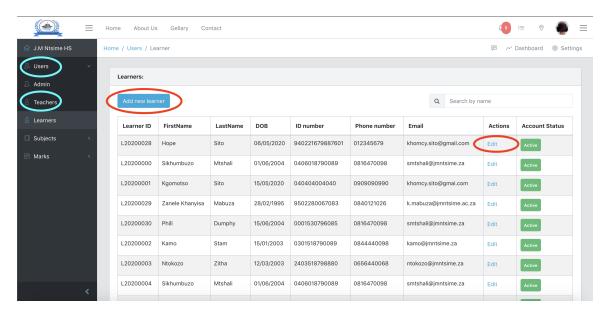


Figure 5: View users

8.1.2 Add or Edit Users

Previous screen, figure 3, you can see the highlighted red button a link, these will navigate to the screen below, for maintaining a user. At the top to you can conveniently navigate back to the list of user, or scroll down when done upon save you will also be redirected to the list of users

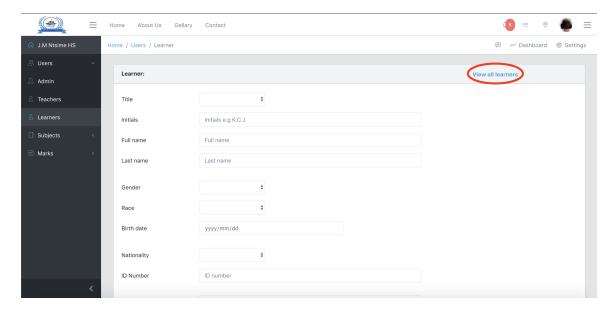


Figure 6: Maintain users

8.1.3 Deactivate Users

Should there be a need for deleting users details, click on the account status "Active", you should see a pop up like below and confirm. The deactivate will not delete user details, deleting is not allowed, it will make the user inactive.

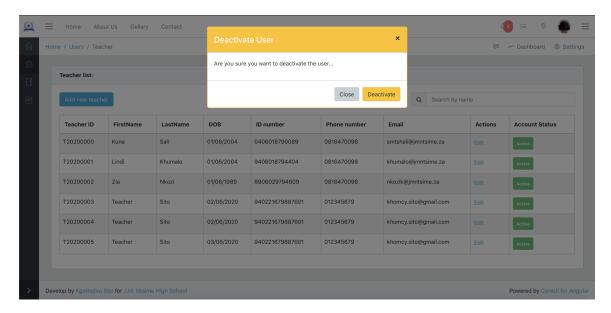


Figure 7: Deactivate user

8.2 Subjects Mantainance

8.2.1 View subjects

Administrating the subjects is similar to user administration. Click on "Subject" on the top-leftmost side menu bar, then click on on "View subjects" You should now see this page:

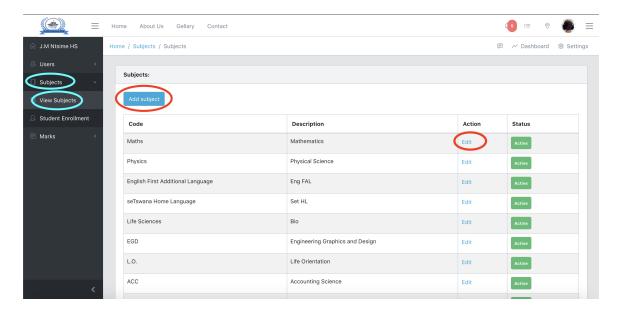


Figure 8: View subjects

8.2.2 Add subject

Previous screen, figure 6, you can see the blue button highlighted red, "Add subject" this will navigate you to the screen below to add subject, click submit when done and you will be navigated to list of subjects

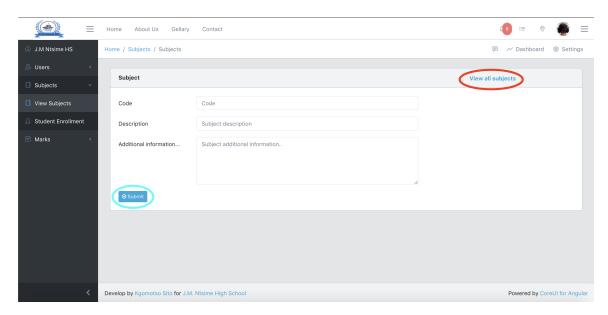


Figure 9: Add subject

8.2.3 Edit subject

Similarly, figure 6, you can see the blue link highlighted red, "Edit subject" this will navigate you to the screen below to edit subject, here you can also add and maintain assessments (orange arrow point to relevant assessment table and save button) for the subject of interest. click submit when done and you will be navigated to list of subjects.

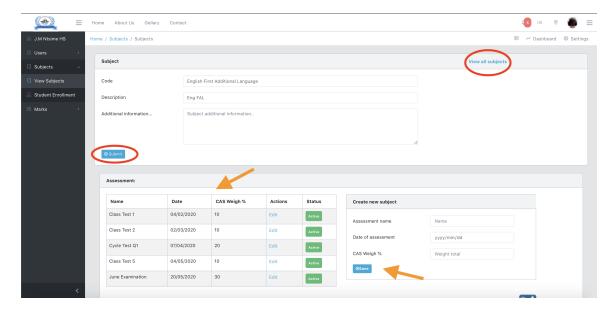


Figure 10: Edit subject

8.2.4 View enrollment

On the sidebar navigation again, click "Student enrollment", and you will see the screen below, the click "View enrollments" under action in the table

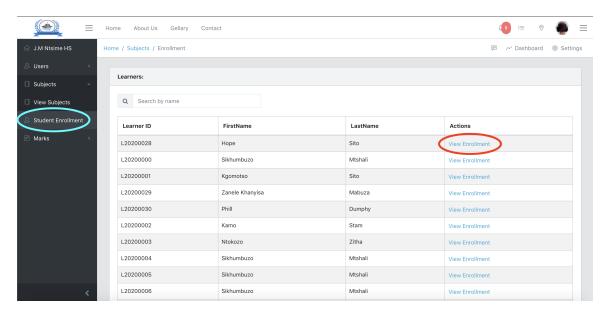


Figure 11: List of users

After "View enrollments" you will see screen below, select subject from the drop down and click on "Enroll learner", to remove subject simply click "de-register".

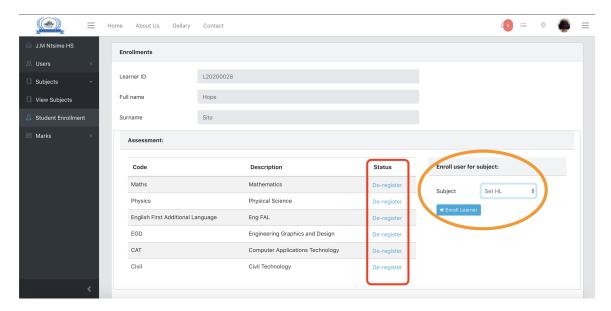


Figure 12: User enrollments

8.3 Marks

8.3.1 View marks

Finally the side navigation, please click on the sidebar click "Marks" then "Subject marks", and you will see the screen below, then click "View assessment marks" under action of the table.

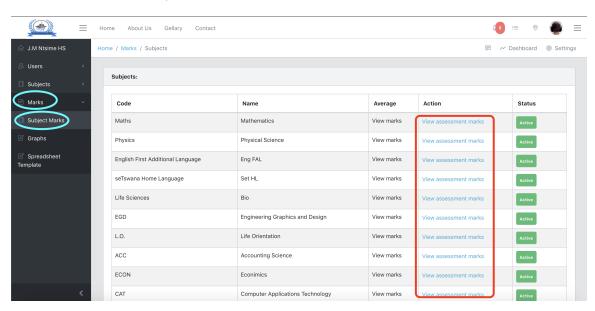


Figure 13: List of subjects

After "View assessment marks", screen below will appear. Click "Add learner marks" on the list of assessment table.

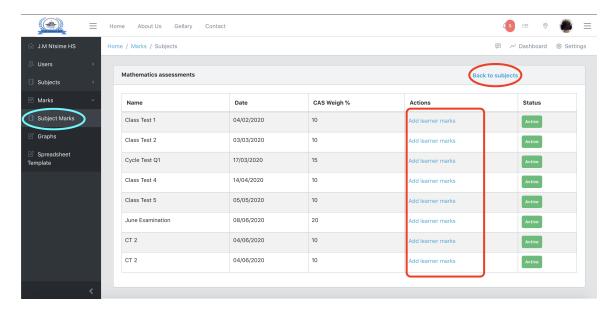


Figure 14: List of Assessment

8.3.2 Add or Edit Marks

On the screen below is where we can see the enrolled students for the subject and marks can be assigned for the assessment.

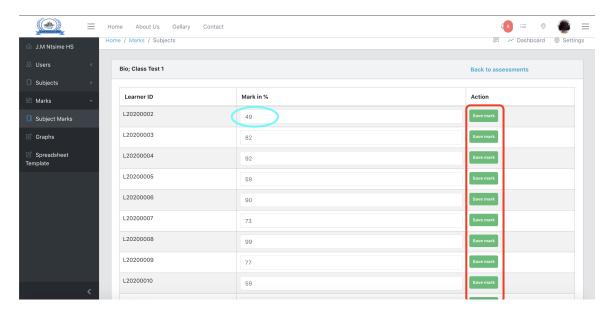


Figure 15: List of users and their marks

8.3.3 Graph Marks

Lastly and most importantly under "Marks", click "Graphs" this has three graph, the first Line Graph compares averages of students over the period of the year, second a Bar Graph showing marks yearly of the subjects, and lastly Radar Chart show the same information as the Bar Graph. On the line graph click the lengths to remove subjects from comparison



Figure 16: Graph summarizing marks