SCHOOL MANAGEMENT SYSTEM –FUNCTIONALITY ADDITION

PROJECT PLAN

Date	11 February 2019
Version	2.2
Date of Authorisation:	11 February 2019
Project start date	11 February 2019
Projected finish date	29 April 2019
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OPEN SOURCE SCHOOL MANAGEMENT SYSTEM – ADDITION, DELETION, MODIFICATION
VERSION: 2.1

1. SCOPE STATEMENT

We have identified a school management system (SMS) that manages school related data such as, information for teachers, students, results, subjects and the administration of these elements.

Our aim in this phase is to remove functionalities and unnecessary files. Since the majority of the backend codebase is in PHP, we intend on deleting functionalities from there.

1.1. PROJECT JUSTIFICATION AND DEFINITION

The aim of the project is to improve open source software by doing so we found an Open Source School Management System which is a cross-platform web based system, design by W3LAYOUTS and developed by Ravi Khadka. The SMS is fully 100% Dynamic with core PHP and it use MySQL database as a data storage facility. SMS is an information system to manage school related data/information. Different users such as students, teachers, student's parents, and system administrator are the ones that will be using the system. The whole purpose of the SMS is to design a generalized solution for an education system that is applicable on chain of schools and support administrative staff by generating quick summaries for decision making and facilitate end-use and middle-use so that they can communicate in automated way.

The improvements will be done by adding, deleting and modifying aspects and functionality of the open source project. The addition, deletion and modification of functionality should improve the current SMS. The team will implement an agile software development approach, where short 10 minute daily meetings will be held to gauge the progress of the project.

GitHub repository for project: https://github.com/KephasT100/sms

2. CHARACTERISTICS, REQUIREMENTS AND USER ACCEPTANCE CRITERIA

2.1. CHARACTERISTICS
- Open source project
- Target audiences are students and educators
- Web based system
- Easily customizable

2.2. REQUIREMENTS
- Workstation or PC for each team member
- Code Editor (Visual Studio Code, Brackets, Notepad++)
- GitHub Version Control
- Project installed and running on each PC

2.3. USER ACCEPTANCE CRITERIA
- Users should continue to use the web application as usual without any complications after the deletion of some functionality.
- Acceptance on the Git and GitHub repository:
  - Individual and teamwork contributions committed to the cloud repository that help complement each group members work done as we strive to achieve one goal.
- Sign off by supervisor lecturer

3. ROLES AND RESPONSIBILITIES

Name	Roles and Responsibilities
Kephas Shiweda	UI Testing / Programming
Erich Godenschweig	Backend Testing / Programming
Fikameni Petrus	Database Testing / Programming
Dan Ntwari	Project Manager / Documentation

4. TASK ASSIGNMENT, COLLABORATION AND DEVELOPMENT TOOLS

During the implementation of this project our team will use tools such as the ones mentioned in:

Name of Tool	Purpose	Benefit
Trello	Web-based list-making application for task assignments.	Improved collaboration and task assignment.
Google Drive	Documentation and file sharing tool.	Improved collaboration and documentation control.
Brackets	Integrated Development Environment	Programming and compilation tool to produce the necessary software additions.
PHPUnit	Unit testing	Test if the code writing, modified or deleted will perform as intended

5. PROJECT DELIVERABLES

	Deliverable	**Output**
Progress 1	Project plan	Documentation report on what is to be done and expected from project group members. Report will outline project overview, deletion of functionality and roles and responsibilities.
Progress 2	Development progress and status	Teamwork as well individual capabilities and contribution thus far. Display progress on testable software after deletion of functionalities.
Progress 3	Demo and documentation of overall web application	Final showing of the new functionality and the documentation of work done

6. DELETING FUNCTIONALITY

6.1. **FUNCTIONALITY:**
- The file config.php (located in [\sms\setting\config.php]) contains the majority of the functions being executed by php in the web application. We intend on reviewing all functions and determining their worth in the application.

6.2. **FILES:**
- The project contains a lot of unused and unnecessary files that should be removed.

6.3. EMPTY LINKS
- There are links all over the web application that leads a user to an "Object Not Found" page. We intend on scouring the PHP codebase for this empty links and removing them.

7. WORK BREAKDOWN STRUCTURE

Deliverables / Milestones	Dates	Responsible Person(s)	Revised date & reason
1. Start with Pre-initiation: NUST – Supervised Team meeting.	11 February 2019	Erich Godenschweig, Dan C. Ntwari, Kephas Shiweda , Fikameni Petrus, Mr Colin Stanley.	
2. Kick off Meeting with Project Team	24 February	Erich Godenschweig, Dan C. Ntwari, Kephas Shiweda , Fikameni Petrus.	
3. Present project plan to the professor.	04 March	Erich Godenschweig, Dan C. Ntwari, Kephas Shiweda , Fikameni Petrus, Mr Colin Stanley.	
4. Implement Software Functionality Addition. Messaging of customers via sms.	25 March	Erich Godenschweig, Dan C. Ntwari, Kephas Shiweda , Fikameni Petrus	
5. Functionality Documentation.	25 March	Erich Godenschweig, Dan C. Ntwari, Kephas Shiweda , Fikameni Petrus	
6. Implement Software Functionality Removal.	15 April	Erich Godenschweig, Dan C. Ntwari, Kephas Shiweda , Fikameni Petrus	
7. Functionality Documentation.	15 April	Erich Godenschweig, Dan C. Ntwari, Kephas Shiweda , Fikameni	

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8. Implement Software Functionality Modification	6 May	Erich Godenschweig, Dan C. Ntwari, Kephas Shiweda , Fikameni Petrus			
9. Functionality Documentation.	6 May	Erich Godenschweig, Dan C. Ntwari, Kephas Shiweda , Fikameni Petrus			
10. User Acceptance Testing.	13 May	Erich Godenschweig, Dan C. Ntwari, Kephas Shiweda , Fikameni Petrus			
11. Sign-off Project Charter by Professor and Team.	13 May	Mr Colin Stanley			

8. ACTIVITY LIST

Activity Identification or Number	Activity Name	Activity Description	Activity Attributes	Predecessors	Milestone?
1.	Start with Pre-initiation: NUST – Supervised Team meeting.	**A pre-meeting with the NUST team members and the professor.**			Yes
2.	Kick-off Meeting with Project Team	**A meeting with the whole team**			Yes
3.	Gather Customer Requirements via Site Visit.				
4.	Implement Addition of Software	**Implement the messaging functionality, to notify people**			

		when a sales order has been done on the ERP system			
5.	Functionality Documentation.	**Document the newly added functionality for future reference**			
6.	Implement Removal of Software Functionality.	**Fulfill removal of functionality**			
7.	Functionality Documentation.	**Document and note the deletion functionality for future reference**			
8.	Implement Modification of Software Functionality.	**Fulfill modification of functionality**			
9.	Functionality Documentation.	**Document the modified functionality for future reference**			
10.	User Acceptance Testing.	**Demo the software for the user**			
11.	Sign-off Project Charter by Professor and Team.	**Final sign-off**			