Software Requirement Specification of Alpha-PM

Group 5 (SETP)

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# 1. Introduction

## 1.1 Purpose

Create a system that helps a project team manage their projects effectively by managing tasks, monitoring timelines and estimating delays and roadblocks and tracking overall project progress.

## 1.2 Intended Audience

Project Managers with small teams, startups, Independent event coordinators, Students.

## 1.3 Intended Use

For project managers, admins to view and manage tasks for specific projects and monitor the progress on who is doing what tasks and when.

For team members, staff to view the tasks assigned to them, update and comment on the progress, provide screenshots of completed tasks etc.

## 1.4 Product Scope

Build a project management tool which is easy to use and powerful enough to support Small to Medium sized project teams with important insights on project progress. The system will provide a platform to create tasks for a project and features that will help manage the tasks as well as track progress.

# 2. Overall Description

## 2.1 User Needs

### User Needs Identification

* **Functionality**: Users need to create, edit and delete tasks.
* **Usability**: The app should have an intuitive interface with clear task labels and deadline
* **Aesthetics:** Users appreciate a clean, visually appealing design
* **Accessibility:** The app must be usable by Supervisors and administrators

### Implementation:

* Task creation with due dates
* Task categorization(eg. work, personal, urgent)
* Reminders and notifications
* Task completion tracking
* Dark mode for usability
* User-friendly icons and animations

### Prioritisation:

* Must have: Task creation and editing
* Should have: Task categorization
* Could have: Dark Mode
* Won’t have: Complex gamification features

## 2.2 Assumptions and Dependencies

|  |  |
| --- | --- |
| **Assumption** | |
| * Users are assumed to have basic knowledge of project management principles * A stable internet connection is needed for real-time updates * The app cannot handle up to 100 concurrent users without significant degradation in performance * App is compliance with GDPE regulations for handling user data | * A short training (orientation) will be conducted for familiarisation of the app * In real-time all handphones are connected to the 5G network, system will update once it gets connected and it will only update as needed * Making sure the min. Requirement of hardware requirements needed to support the app before use. * All users will need to install microsoft authenticator and a 2PA security to protect data |

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| --- |
| **Dependencies** |
| * Hardware and software requirements * User knowledge * Process knowledge * Approval workflow * Users acceptance test * Timelines * Security |

# 3. System Features and Requirements

## 3.1 Functional Requirements

* The task management software must be able to have a login and logout function for users.
* The software will allow for user profile creation and management, including the setting of permissions for different user roles.
* A search function will allow for managers to search for specific team members or tasks.
* The software will allow users to add new tasks, edit existing tasks, and delete tasks when required.
* To track the progress of team members, the software will display the progress of each task.
* For tasks that are completed, users will be able to upload files or images as proof of completion.
* Admin should be able to see a summary of the overall project progress on the landing page

## 3.2 System Features

* User Interface
* Gantt Chart
* Task allocations
* Comment & Remarks Insertion
* ITP & Completion Reports insertion

## 3.3 Nonfunctional Requirements

* Performance: Loading speed should be less than 5s on average internet speeds. Necessary steps to ensure smooth 60fps rendering of the application has to be implemented. The system must be responsive and should work on various device screen sizes.
* Security: Database that stores username and passwords. Prevent attacks such as SQL injection.
* Usability: Easy to navigate webpage. Search/filter functionality. Provide visualisations such as Gantt chart and project bar.
* Scalability: Be able to support multiple new users joining each team. Be able to support increasing numbers of data in the database.