SOFTWARE REQUIREMENT SPECIFICATION FOR PROJECT MANAGEMENT STYSTEM

1. INTRODUCTION

1.1. PURPOSE

This document specifies the Software Requirements Specification (SRS) for the Project Management System (PMS). It describes scope of the system, both functional and non-functional requirements for the software, design constraints and system interfaces.

1.2. SCOPE

The Project Management System addresses the management of software projects. It provides the framework for organizing and managing resources in such a way that these resources deliver all the work required to complete a software project within defined scope, time and cost constraints.

The system applies only to the management of software projects and is a tool that facilitates decision making; the PMS does not make decisions.

This SRS describes only required functionality of PMS, not the functionality of external systems like data storage, change management or version control systems.

1.3. DEFINITIONS, ACRONYMS AND ABBREVIATIONS

The following table explains the terms and abbreviations used in the document.

- PMS - Project Management System
- GUI - Graphical User Interface
- XAMP - A server that is running Linux, Apache, My-SQL and PHP
- DBMS - Database Management System

1.4. References

- https://phpgrid.com/example/build-project-management-application-scratch
- Software engineering a practitioner's approach by Roger Pressman

1.5. Overview

A project management application is a software system used for project planning, resource allocation, tracking of project components, and change management. We will be creating a simple and easily customizable PM system to tracks projects, including milestones, tasks, hours, costs, and more. It will be having user friendly GUIs that will guide the user.

2. OVERALL DESCRIPTION

2.1. PRODUCT PERSPECTIVE

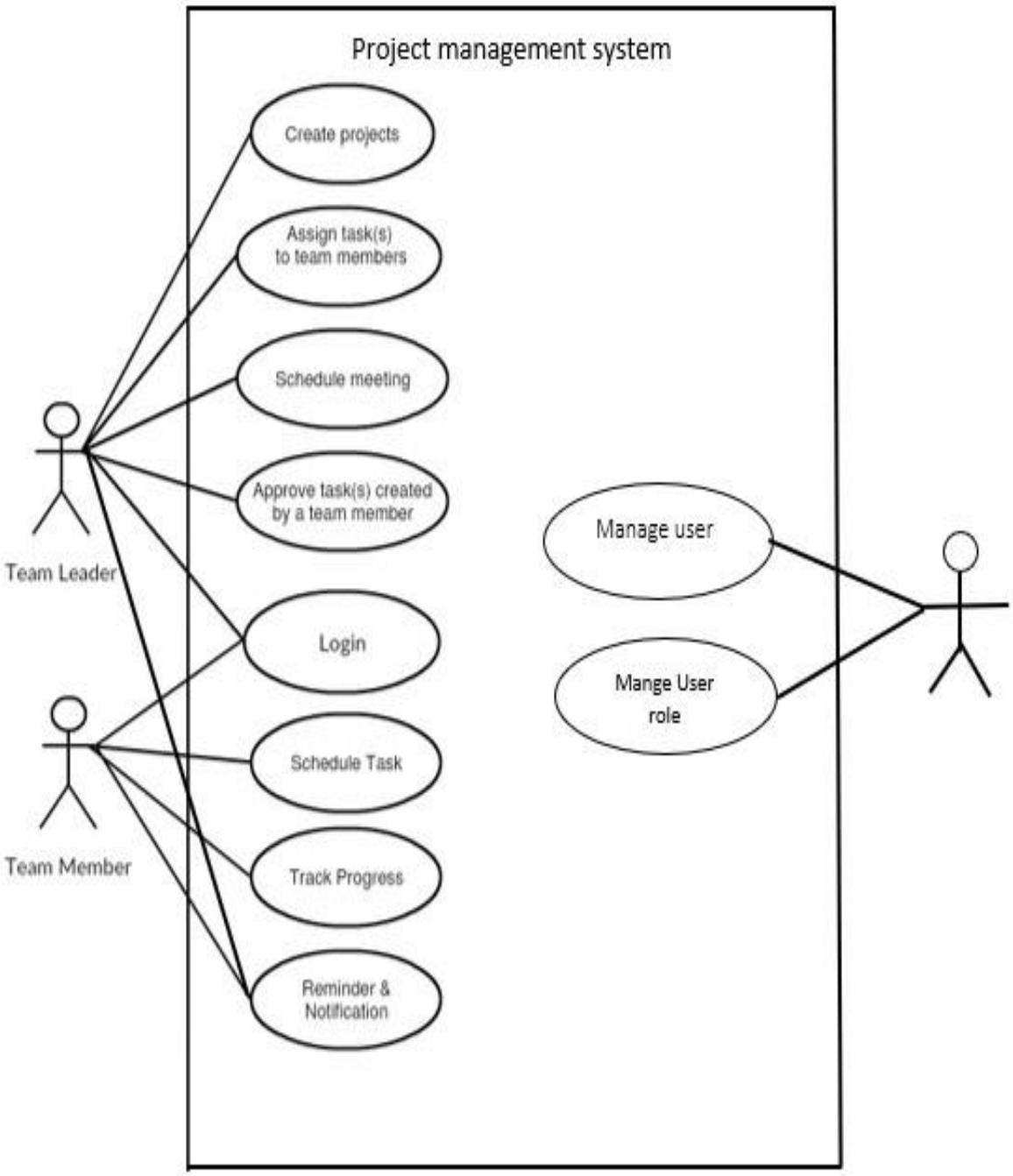
PMS it a standalone system that provides functionality described in the Product functions section.

2.2. PRODUCT FUNCTIONS

2.2.1. Supported Functions

- *Provides a framework for project management*
- *Add & Manage team members*
- *Assign tasks*
- *View and track progress*
- *Schedule works & team meetings*
- *Set reminder and timely notification*
- *Supports distributed development*

2.2.2. Use Case Diagram



2.3 USER CHARACTERISTICS

2.3.1. Manager

2.3.2. Member

2.3.3. Admin

2.4. 2GENERAL CONSTRAINTS

Need high speed internet connection.

2.5. ASSUMPTIONS AND DEPENDENCIES

2.5.1 Assumptions

- *The code should be free with compilation errors/syntax errors.*
- *The product must have an interface which is enough to understand.*

2.5.2. Dependencies

- *All necessary hardware and software are available for the implementation*
- *The proposed system would be designed, developed, and implemented based on the software requirement specification document.*
- *End user should have basic knowledge of computer.*

3. SPECIFICATION REQUIREMENT

3.1. EXTERNAL INTERFACE REQUIREMENT

3.1.1. User Interfaces

Web based user interface with ease of use Developed in PHP.

3.1.2. Hardware Interfaces

- *Processor : Intel Pentium 3 or above*
- *Hard Disk : 500 GB or above*
- *RAM : 4GB or above*

- *Monitor : LCD Monitor*
- *NIC : Required*

3.1.3. Software Interfaces

- *Operating System : Windows 10*
- *Client End Language : HTML 5*
- *Local Validation : JS, HTML 5 Validation*
- *Server-Side Language : PHP*
- *Database : MySQL*
- *Webserver : XAAMP*
- *Web Browser : Google Chrome*

3.1.4. Communication Interfaces

- *Internet connection (wired/wireless)*

3.2. FUNCTIONAL REQUIREMENT

3.2.1. Login/Registration

3.2.1.1. Manager Login

3.2.1.2. Member Login

3.2.1.3. Admin Login

3.2.2. Create/Modify Project Details

3.2.2.1. Create new project

3.2.2.2. Modify project details

3.2.3. Track Progress

3.2.3.1. Track Individual progress

3.2.3.2. Track team progress

3.2.3.3. Upload & View daily completed tasks

3.2.4. Schedule work & Meeting

3.2.4.1. Schedule individual work

3.2.4.2. Schedule meeting

3.2.5. Add & Manage team members

3.2.5.1. Add new team member

3.2.5.2. Assign daily tasks to team members

3.2.6. Reminder & Notification

3.2.6.1. Set reminders

3.2.6.2. Meeting & Reminder Notification

3.2.7. Collaborative Work

3.3. PERFORMANCE REQUIREMENTS

The system is supposed to be having good memory space and a Bigger Ram above 4 GB preferably.

High speed internet connection with speed above 2mbps preferably.