

SE Final Project Report

Name: Pranav Sridhar	SRN: PES1UG21CS432
Name: Pratheek K N	SRN: PES1UG21CS443
Name: Pravard M	SRN: PES1UG21CS446
Name: Pritam S Gurav	SRN: PES1UG21CS453

Abstract

This report presents a comprehensive analysis of the development and implementation of a robust software engineering project management system. The primary objective of this system is to facilitate efficient planning, execution, and monitoring of software development projects, catering to the intricate needs of project managers, developers, and stakeholders within an organization. The report outlines the system's functionalities, technical architecture, implementation methodologies, and key features essential for seamless project management in the software development lifecycle.

Throughout the report, a detailed breakdown of functional requirements, technical design considerations, implementation strategies, and quality assurance measures are provided. The report delves into the challenges faced during development, along with the solutions adopted, aiming to deliver an insightful understanding of the project's lifecycle. Moreover, it evaluates the system's performance, user feedback, and achievements against predefined objectives, emphasizing the system's effectiveness in enhancing productivity and project success rates.

This report acts as a roadmap for software engineering teams, project managers, and stakeholders seeking to understand the intricacies and significance of a tailored project management system within the software development domain. It encapsulates the critical aspects of the system's development journey, offering valuable insights for future enhancements and recommendations to further optimize project management practices.

Introduction

In today's dynamic landscape of software development, the effective management of projects is paramount to success. The complexity inherent in software engineering projects necessitates a robust, tailored project management system to streamline processes, enhance collaboration, and ensure timely delivery of high-quality software. This report delves into the comprehensive exploration and analysis of such a project management system designed specifically for software engineering endeavors.

Software development projects are characterized by multifaceted challenges, including intricate coding requirements, evolving client expectations, tight deadlines, and dynamic team compositions. Managing these complexities demands more than conventional project management approaches. Thus, the development of a dedicated software engineering project management system becomes indispensable.

The objective of this report is to provide an in-depth understanding of the intricacies involved in conceptualizing, designing, and implementing an effective project management system tailored explicitly for software engineering teams. The system under review aims to address the nuanced requirements of project managers, developers, testers, and stakeholders, offering a centralized platform

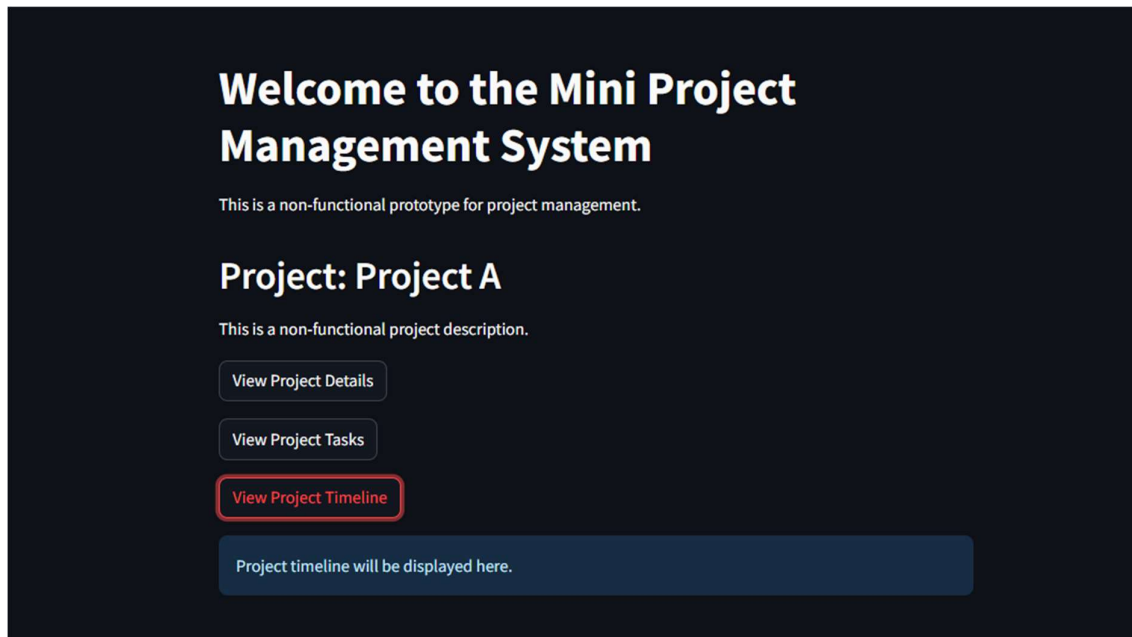
for seamless collaboration, task tracking, resource allocation, and progress monitoring throughout the software development lifecycle.

Throughout this report, key aspects of the project management system will be examined, including its functional requirements, technical architecture, implementation strategies, testing methodologies, and performance evaluations. By exploring these facets, this report aims to offer valuable insights into the significance of adopting a purpose-built project management system in optimizing software development processes and achieving project success.

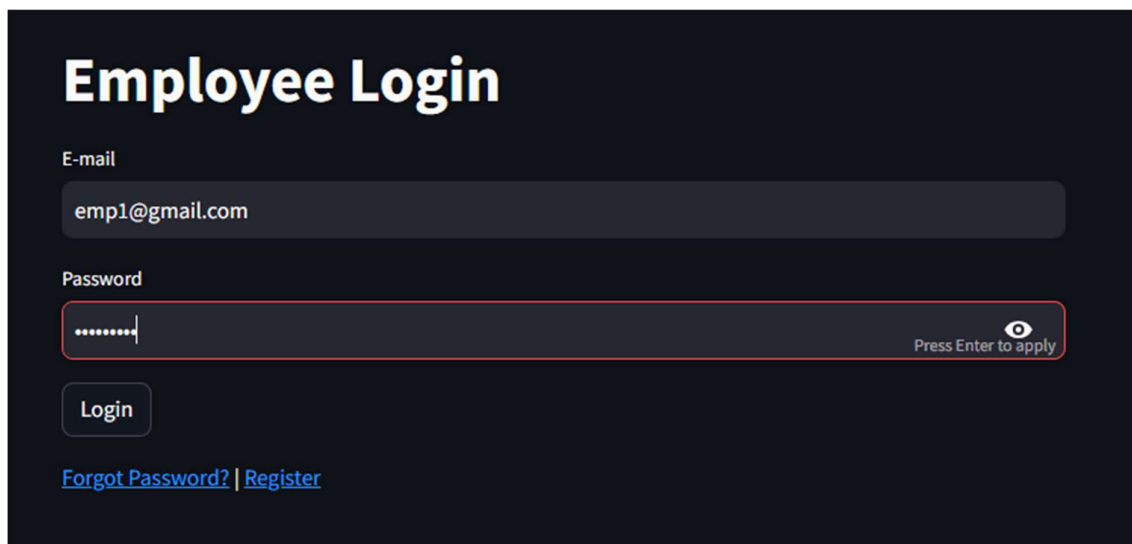
Moreover, this report serves as a valuable resource for software development teams, project managers, and organizational stakeholders seeking to comprehend the pivotal role played by a dedicated project management system in navigating the complexities of software engineering projects. The insights derived from this report can guide future endeavors, aiding in the refinement and enhancement of project management practices within the software development domain.

Screenshots

Home page



Employee Login Page



Overdue Project table

Overdue

	Project Manager	Project	Task	Start	Finish	Duration	Employees	Precedence
0	pm1	project1	Task 1	2023-01-01	2023-02-01	31	emp1 emp2	high
1	pm1	project1	Task 2	2023-02-02	2023-03-01	28	emp3 emp4	medium
2	pm1	project2	Task 1	2023-03-02	2023-04-01	30	emp5 emp1	low

	Task	Start	Finish	Duration	Employees	Precedence	Completed
0	pm1 : project1 : Task 1	2023-01-01	2023-02-01	31	emp1 emp2	high	7
1	pm1 : project1 : Task 2	2023-02-02	2023-03-01	28	emp3 emp4	medium	7
2	pm1 : project2 : Task 1	2023-03-02	2023-04-01	30	emp5 emp1	low	7

Gantt Chart



Project Creation

Create a new project

Enter project name

Create

Select a Project

choose a project...

▼

Product Manager Login Page

Product Manager Login

E-mail

pm1@gmail.com

Password

...

👁

Login

Login successful! Redirecting...

[Forgot Password?](#) | [Register](#)

Contact us at email@example.com or visit our website example.com.

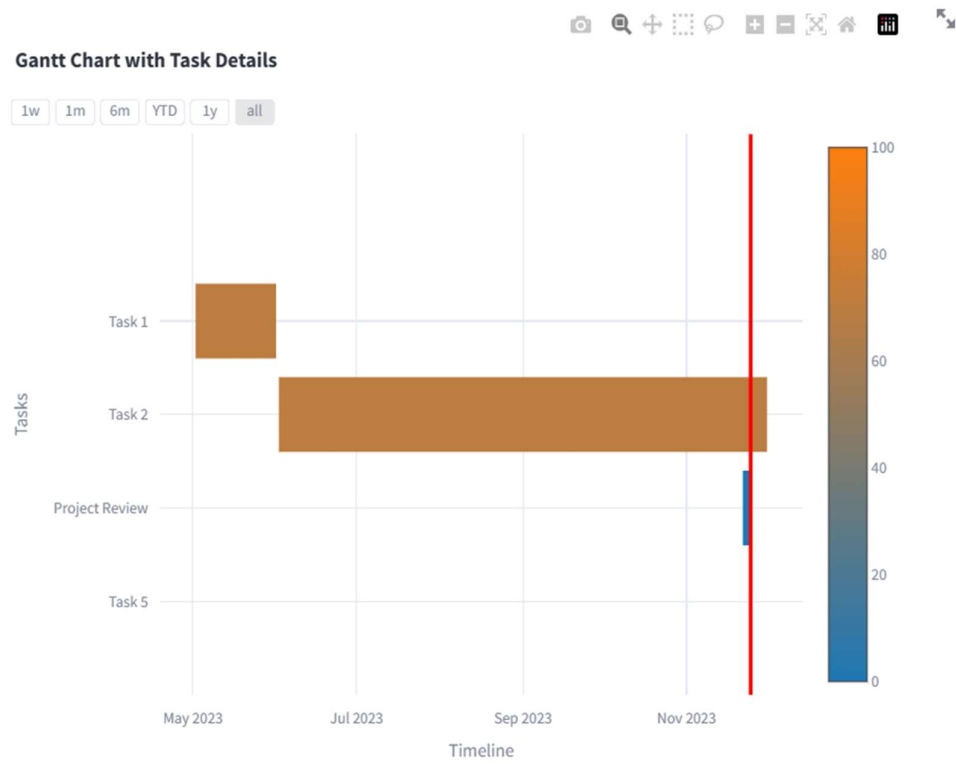
Project Details

Project: project3

Add Task

	Task ID	Task Name	Start Date	End Date	Duration	Employees	Precedence	completed %
0	1	Task 1	2023-05-02	2023-06-01	31	emp4, emp5	high	70
1	2	Task 2	2023-06-02	2023-12-01	29	emp1, emp2	low	70
2	Task 12	Project Review	2023-11-22	2023-11-25	3	emp1, emp2	high	0
3	5	Task 5	2023-11-22	2023-11-22	4	emp1, emp2	high	0

Gantt Chart



Adding Task

Add Task

Enter Task Details:

Task ID

10

Task Name

Task 10

Start Date

2023/11/24

End Date

2023/11/24

Duration

4

-

+

Employees (comma-separated)

emp18,emp19

Precedence

medium

▼

Add Task

Project Details updated after adding task

	Task ID	Task Name	Start Date	End Date	Duration	Employees	Precedence	completed %
0	1	Task 1	2023-05-02	2023-06-01	31	emp4, emp5	high	70
1	2	Task 2	2023-06-02	2023-12-01	29	emp1, emp2	low	70
2	Task 12	Project Review	2023-11-22	2023-11-25	3	emp1, emp2	high	0
3	5	Task 5	2023-11-22	2023-11-22	4	emp1, emp2	high	0
4	10	Task 10	2023-11-24	2023-11-24	4	emp18, emp19	medium	0

