

Post Graduate Diploma in Advanced Computing (PG-DAC)

March 2024 Batch

Group Number	Group - 6
Guide	Mr. Pankaj Kumar Mahto
Group Members	<ol style="list-style-type: none"> 1. Divyanshu Arora 2. Mitali Shrivastava 3. Suraj Gupta
Title	Project Management Tool
Objective	<ol style="list-style-type: none"> 1. The primary objective of this project is to develop a robust, web-based project management tool designed specifically for small to medium-sized businesses. 2. This platform aims to streamline project planning, execution, and monitoring by providing an integrated solution that enhances team collaboration, optimizes resource utilization, and ensures timely delivery of projects. 3. The tool will be tailored to address the unique challenges faced by smaller teams, such as limited resources, lack of customization in existing tools, and the need for efficient communication channels.
Abstract	<ol style="list-style-type: none"> 1. Project management software helps in planning, organizing, and managing resources effectively. It can handle various tasks such as scheduling, cost control, resource allocation, communication, and decision-making. 2. These tools have evolved from early methods like the Gantt chart and the Critical Path Method, to modern software that supports collaborative and visual project management.

<p>Project Architecture</p>	<p>Task Management System Use Case Diagram</p> <pre>graph LR subgraph System direction TB U1((Create projects)) U2((Assign task(s) to team members)) U3((Modify a project / task details)) U4((Approve task(s) created by a team member)) U5((Complete an assigned task)) U6((Create a task for approval)) U7((Import and export data from CSV)) U8((Create, modify, and delete team members)) U9((Transfer project and task)) U10((Create member report)) U11((Create Task(s))) U12((Create Task(s))) U11 --> <<include>> U12 U12 --> <<include>> U11 end TL[Team Leader] --- U1 TL --- U2 TL --- U3 TL --- U4 TM[Team Member] --- U5 TM --- U6 Admin[Administrator Third-party] --- U7 Admin --- U8 Admin --- U9 Admin --- U10</pre>
<p>Scope of work</p>	<p>1. Manage multiple projects simultaneously, with features for project creation, milestone tracking, and real-time monitoring.</p> <p>2. Provide customizable dashboards and reporting tools to give users clear visibility into project status, task completion, resource utilization, and budget tracking.</p> <p>3. Facilitate detailed task management, including the creation of tasks, assignment to team members, setting of priorities, and tracking of progress.</p> <p>4. Ensure data security and privacy through encrypted data storage, role-based access control, and compliance with industry standards.</p>
<p>Technologies used</p>	<p>Front End: React JS, HTTP Client using axios library.</p> <p>Back End: Spring boot Rest Controller, Autowiring for dependencies</p> <p>Database: MYSQL/Workbench</p>

Application	<ol style="list-style-type: none"> 1 .It provides a user-friendly interface which is easy to use. 4. Updating Project information becomes easier. 5. It gives appropriate access to authorized users depending on their permissions. 6. The system has sufficient scope for modification in future if necessary.
Project Timelines (Total:120 hours)	<p>Time plan of the Project:</p> <ol style="list-style-type: none"> 1. Abstract 2. ER Diagram and Database 3. Coding 4. Code Testing 5. Project Report