

**Post Graduate Diploma in Advanced Computing (PG-DAC)**

**September 2021 Batch**

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| Group Number | Group - 6 |
| Guide | Mr. Pankaj Kumar Mahto |
| Group Members | 1. Divyanshu Arora 2. Mitali Shrivastava 3. Suraj Gupta |
| Title | **Project Management Tool** |
| Objective | 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 | 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. |
| Project Architecture |  |
| Scope of work | 1. Manage multiple projects simultaneously, with features for project creation, milestone tracking, and real-time monitoring. 2. Provide customizable dashboards and reporting tools to give users clear visibility into project status, task completion, resource utilization, and budget tracking. 3. Facilitate detailed task management, including the creation of tasks, assignment to team members, setting of priorities, and tracking of progress. 4. Ensure data security and privacy through encrypted data storage, role-based access control, and compliance with industry standards. |
| Technologies used | Back End: Springboot Rest Controller, Autowiring for dependencies  Front End: React JS, HTTP Client using axios library  Database: MYSQL/Workbench |
| Application | 1 .It provides a user-friendly interface which is easy to use.   1. Updating Project information becomes easier. 2. It gives appropriate access to authorized users depending on   their permissions.   1. The system has sufficient scope for modification in future if necessary. |
| Project Timelines  (Total:120 hours) | Time plan of the Project:  1. Abstract  2. ER Diagram and Database  3. Coding  4. Code Testing  5. Project Report |