PROJECT PLANNING

Date	23 October 2025
Team ID	NM2025TMID01244
Project Name	Garage Management System
Maximum Mark	5 Marks

Introduction

The Garage Management System (GMS) project follows an Agile methodology, which emphasizes incremental development, continuous feedback, and adaptability to evolving requirements. Agile enables the project team to deliver functional modules in iterative cycles, ensuring that each phase meets quality standards and stakeholder expectations. The project is structured into five key phases: Ideation, Design, Development, Testing, and Deployment. Each phase builds upon the previous one, allowing for timely reviews, early detection of issues, and integration of improvements. This approach not only supports timely delivery but also fosters effective collaboration among team members and stakeholders, resulting in a high-quality, user-centric system.

Resource Planning

Effective resource allocation is essential for the successful implementation of the GMS.

- Software Tools: Salesforce Lightning for system management, VS Code for development, and modern web browsers such as Chrome and Edge for testing and deployment.
- Hardware Requirements: Laptops equipped with Intel i5 processors and 8GB RAM to support smooth development, testing, and simulation of system workflows.

- Communication Tools: Slack, Google Meet, and Trello are used for team coordination, task tracking, and maintaining clear communication throughout the project lifecycle.

Proper resource planning ensures efficient workflow, real-time collaboration, and high-quality project deliverables.

Timeline and Responsibilities

The project timeline is designed to ensure clear responsibilities and efficient execution of tasks.

During the Ideation phase, the team conducts a detailed study of the problem, gathers requirements, and documents potential solutions. The Design phase focuses on developing system architecture, creating wireframes and UI mockups, and defining entity-relationship diagrams. The Development phase includes implementing backend logic, frontend interfaces, and integrating Salesforce modules to ensure smooth functionality. The Testing phase involves performing unit tests, integration tests, and user acceptance testing to validate system reliability. Finally, the Deployment phase covers hosting the system on the production environment, performing final validations, and launching the Garage Management System.

This structured timeline ensures accountability, minimizes delays, and provides a clear roadmap for successful project execution.

Effort Estimation

Effort estimation was carried out using the story point method, where each backlog item was assigned a complexity value based on the time and resources required. Simple tasks such as creating objects and fields were given lower estimates, while automation and testing were assigned higher points. This estimation helped in efficient time management and workload distribution among team members. It also provided a realistic understanding of project timelines and potential risks, ensuring that all objectives were achieved within the planned schedule.

Conclusion

Through structured backlog management, sprint planning, and precise estimation, the project planning phase ensures smooth and organized execution of the Garage Management Project. This systematic approach facilitates faster delivery, higher quality, and adaptability to changing requirements within the Salesforce development environment.