

# PROJECT PLANNING PHASE

## Project Task Planning and Implementation

Date	01 November 2025
Team ID	NM2025TMID01280
Project Name	Garage Management System – Digitalization of Garage Operations

### Overview

The Garage Management System project was developed using a sequential development approach, ensuring a clear and organized workflow from start to finish. The process was divided into distinct phases, including requirement gathering, design, implementation, testing, and final validation, allowing smooth and structured progress throughout the project.

All tasks were planned, executed, and tracked for timely completion, quality, and performance within the Salesforce Developer environment. This approach ensured that each phase met its objectives, leading to a reliable and well-tested system ready for practical use.

## Project Task Planning Table

Phase No.	Phase Name	Objective / Task Description	Key Activities Performed	Outcome / Deliverable	Status
1	Requirement Analysis	Identify the functional and non-functional requirements of a digital garage system.	Gathered requirements for Customer, Appointment, Service, and Billing management modules.	Defined project scope and data requirement s.	Completed
2	System Design & Object Creation	Design the Salesforce data model and create custom objects.	Created custom objects: Customer Details, Appointment, Service Records, and Billing & Feedback.	Established structured data architecture in Salesforce.	Completed

		<b>Added fields such as</b>		
<b>3</b>	<b>Field Configuration &amp; Validation</b>	Configure fields with proper data types and validation rules.	Phone, Email, Appointment Date, Vehicle Number, Payment Status, and Rating. Implemented validation rules for correct data input.	Ensured accuracy and consistency of user data. Completed
<b>4</b>	<b>Automation Setup</b>	Implement Salesforce automation for key processes.	Built two Record-Triggered Flows: one for automatic Payment Paid update and one for Service Completion.	Automated routine tasks, reduced manual work. Completed
<b>5</b>	<b>Apex Trigger Development</b>	Add programmatic logic for service-amount calculation.	Developed AmountDistribution Trigger and AmountDistribution Handler class to auto-calculate total service amount.	Automatic billing accuracy achieved. Completed
<b>6</b>	<b>Profile &amp; Role Configuration</b>	Define user roles, permissions, and hierarchy.	Created custom profiles (Sales Person, Manager), role hierarchy, and sharing settings.	Controlled access and maintained data security. Completed

7	Reports & Dashboards	Build analytical reports and visual dashboards.	Created ‘New Service Information Report’ and “Service Rating Dashboard.”
8	Testing & Performance Validation	Verify all components for accuracy, reliability, and automation.	Performed manual testing on objects, flows, triggers, and dashboards. Validated data flow and error handling.
9	Documentation & Submission	Prepare final documentation and demonstration materials.	Compiled phase-wise documentation with screenshots and reports.

## Conclusion

The Garage Management System project followed a structured, phase-wise planning model rather than iterative sprints.

Each phase built logically on the previous one, ensuring smooth progress and a clear understanding of the system at every step.

This method proved effective for a single-developer Salesforce project, providing:

- Clear milestones and deliverables,
- Strong control over data and automation setup, and
- Efficient time management and testing outcomes.

The completed system meets all defined requirements for managing customer records, appointments, services, and billing — demonstrating a successful and well-planned implementation.