

Project Planning Phase – Garage Management System

1. Introduction

- The **Project Planning Phase** defines the roadmap, strategy, and resource plan for developing the **Garage Management System (GMS)** in Salesforce.
- It ensures that all development activities are properly organized, scheduled, and aligned with project goals.

2. Objectives

- To establish a clear **plan of action** for the entire project lifecycle.
- To define roles, responsibilities, and the sequence of tasks.
- To ensure that the project is completed efficiently, on time, and within the defined scope.

3. Project Scope

- Automate all garage operations such as:
 - Customer registration and vehicle details management.
 - Appointment and service scheduling.
 - Billing, payments, and customer feedback.
 - Report and dashboard generation for analytics.

- Built entirely within **Salesforce Developer Edition** using **custom objects, automation, and dashboards**.

4. Project Methodology

- The project follows a **Phased Development Approach** using **Salesforce's declarative (click-based) and programmatic (Apex-based) tools**.
- **Phases in the Methodology:**
 1. **Requirement Gathering:** Understand garage operations and workflow needs.
 2. **System Design:** Create ER diagrams and define object relationships.
 3. **Development:** Build objects, fields, Flows, and triggers in Salesforce.
 4. **Testing:** Validate system functions, performance, and data integrity.
 5. **Deployment:** Launch the Garage Management App for end users.
 6. **Maintenance:** Review feedback and enhance system features periodically.
- This approach ensures continuous improvement, user feedback integration, and minimal rework.

5. Resource Allocation

Resource	Responsibility
Team Leader	Oversees project execution and coordination
Developer	Builds custom objects, Flows, and Apex Triggers
Tester	Conducts system and performance testing
Administrator	Manages profiles, roles, and data access
End Users	Provide real-world feedback post-deployment

6. Risk Management

Risk	Mitigation Strategy
Data duplication	Use validation and duplicate rules
Automation issues	Test Flows and Apex in sandbox
Role-based errors	Set correct profiles and permissions
Performance delay	Optimize triggers and report filters
Requirement gaps	Conduct frequent stakeholder reviews

7. Deliverables

- Salesforce Developer setup and configuration.
- ER Diagram and object relationship documentation.
- Custom objects and Lightning App.
- Working automation (Flows, Apex).
- Reports and dashboards for analysis.
- Testing documentation and project report.

8. Conclusion

- The **Project Planning Phase** establishes a clear development methodology, resource distribution, and risk control plan.
- It ensures a structured and efficient development process for the **Garage Management System** in Salesforce.
- With proper planning, the project is set for **successful implementation and testing** in later phases.