Project Design Phase

Problem-Solution Fit Template

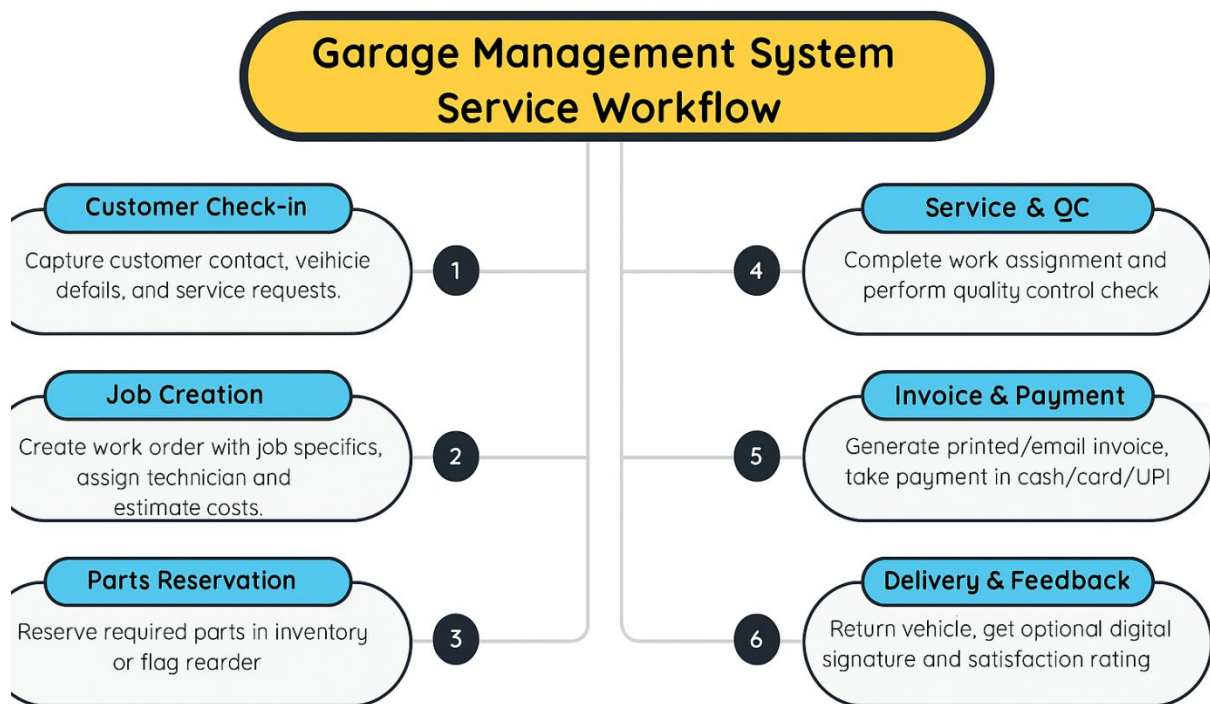|	
Date	26 October 2025
Team ID	NM2025TMID03988
Project Name	Garage Management System
Maximum Marks	2 Marks

Problem – Solution Fit Template:

Many independent garages and multi-bay service centers still rely on paper records, spreadsheets, or fragmented tools to manage vehicle intake, service bookings, parts inventory, technician allocation, and billing. This leads to lost work orders, incorrect invoicing, long customer wait times, poor parts tracking, and inefficient technician scheduling.

Purpose:

❏ Provide a single, easy-to-use system that captures the entire service lifecycle — from customer booking to vehicle handover.
❏ Reduce manual errors, avoid duplicate work orders, and improve turnaround time for services.
❏ Improve inventory control and parts replenishment to reduce stockouts and overstock.
❏ Increase transparency and customer satisfaction via automated notifications and digital invoices.
❏ Provide analytics to help garage owners optimize operations and profitability.

Template:

References:

1. https://www.ideahackers.network/problem-solution-fit-canvas/
2. https://medium.com/@epicantus/problem-solution-fit-canvas-aa3dd59cb4fe

Develop a **web-based Garage Management System** to streamline vehicle servicing operations. The solution will manage bookings, generate work orders, monitor technician activities, track spare parts inventory, and generate invoices automatically. It will provide role-based access for users and real-time status updates to customers.