

Project Proposal Document

1. Project Title & Short Description

Title: Service-Booking-System

Description: A simple web-based platform where customers can book on-demand home services such as cleaning, plumbing, and tutoring. Customers can search services, book a timeslot, pay online, and provide feedback. Service providers receive assignments and update job status. An admin dashboard supports monitoring of bookings, payments, and providers with basic analytics.

2. Application Type

This project will be developed as a Web Application only.

- **Customer:** Responsive web interface accessible via browsers on desktops.
- **Provider:** Same responsive web interface, with role-based dashboards for service providers.
- **Admin:** Web dashboard with monitoring, management, and analytics.

3. Motivation / Problem Statement

People often struggle to find reliable service providers for household and tutoring needs. Current solutions are either fragmented or lack transparency in pricing, scheduling, and provider ratings. Our platform aims to centralize these services in one place, ensuring:

- Easy booking process for customers.
- Job visibility and assignment flow for providers.
- Secure transactions and feedback mechanisms.
- Administrative oversight for service quality and payments.

4. Target Users & Use Cases

Users:

- **Customers:** Search, book, pay, and rate services.
- **Service Providers:** Accept assignments, update job status, manage availability.
- **Admins:** Monitor operations, manage providers, track bookings & revenue.

Use Cases:

- Customer books a plumbing service for next day.
- Provider accepts the booking and marks progress updates.
- Customer pays via in-app sandbox payment after completion.
- Admin views daily bookings & revenue through dashboard charts.

5. Project Scope & High-Level Features

Scope:

- Focus on core booking & payment functionality in a simple monolithic system.
- Web-based, responsive design (no native apps initially).

High-Level Features:

- Authentication & Role-based Access (customer, provider, admin).
- Service catalog browsing.
- Booking workflow (with provider assignment).
- Provider dashboard with status updates.
- Secure payment integration.
- Feedback and ratings system.
- Admin dashboard with search, filters, and KPIs.

6. Technology Stack

- **Frontend:** React.js
- **Backend:** Spring Boot REST API.
- **Database:** PostgreSQL.
- **Authentication:** JWT with bcrypt-hashed passwords.
- **Payments:** Razorpay.
- **Deployment:** Vercel/Render.
- **Version Control:** GitHub repository.

7. Roles & Responsibilities

Roles	Person
Frontend	Bhavya , Pratyush , Shashank , Akshay
Backend	Hitiksha , Bhavika , Anjali
Q/A Tester	Shashank , Anjali
ML Implementation (Backend)	Malhar , Jayesh

8. Timeline with Milestones

Week / Date	Milestone / Deliverable	Description
26-Aug-2025	Project Proposal Document	Title, scope, motivation, tech stack, roles, timeline.
07-Sep-2025	Requirements Specification Document (BRD)	Functional & non-functional requirements, user stories, wireframes (initial).
14-Sep-2025	System Design Document	Architecture diagram, DB schema, class diagrams, mockups (majorly final).
14-Sep-2025	Project Plan / Gantt Chart	Task timeline, milestones, team assignments (Trello/Jira).

15-Sep to 25-Nov 2025	Weekly Progress Reports	1-page reports on tasks completed, blockers, upcoming work.
14-Oct-2025	Mid-Semester Demonstration	Partial working demo + code walkthrough + slides.
04-Nov-2025	Test Plan & Test Cases	Unit/integration tests, bug log, DB population, UI testing.
15-Nov-2025	Final Application	Fully functional app with frontend + backend + DB integration.
15-Nov-2025	Deployment & Hosting	Hosted on Heroku/Vercel/Firebase, live URL, deployment notes.
18-Nov-2025	Final Project Report	15–25 page detailed report with system overview, challenges, solutions.
18-Nov-2025	Final Presentation & Demo	10–15 slides, poster, live demo, lessons learned.
19-Nov-2025	Peer Review & Contribution Report	Individual reviews and self-assessment.