

Software Project Management

Sub Code : CS6022

Team -1

Project Title: NextStop - Online Travel Booking System

Scope of Project, Plan , Risks Identified

Scope of the Project

The NextStop – Online Travel Booking System is a web-based application designed to simplify bus ticket reservations. It eliminates the need for physical booking counters by providing real-time seat availability, secure payment options, and booking confirmation.

Key Features within Scope:

- AI-powered seat recommendation
- Booking fairness system for ticket allocation
- Wallet and loyalty points integration
- Multilingual support (two languages)
- Secure payment gateway integration
- Notifications and alerts for users
- Ticket summary and booking confirmation

Project Plan

The project will be developed in phases, ensuring that the core functionality is prioritized before adding advanced features.

Phase 1 – Requirements & Design

- Define user requirements
- Prepare architecture diagram & database schema

- Decide tech stack and tools

Phase 2 – Development

- Frontend: UI for search, booking, and payment
- Backend: Database integration, booking logic, fairness system
- Payment & wallet module integration

Phase 3 – Testing

- Unit testing of individual modules
- Integration testing of frontend and backend
- End-to-end testing with sample data

Phase 4 – Documentation & Demo

- Prepare user manual and technical documentation
- Create final presentation slides
- Record backup demo video for contingencies

Planned Project Timeline

Task	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
Requirements & Design	■	■						
Architecture & DB Schema		■	■					
Frontend Development			■	■	■			
Backend Development			■	■	■			
AI Seat Recommendation				■	■	■		
Integration & Testing						■	■	
Bug Fixing							■	■
Documentation							■	■
Final Demo & Submission								■

Risks Identified

1. Team & Time Risks

- Missed deadlines if members don't complete their parts (UI, backend, QA, docs) on time.
- Unequal workload - some team members may end up doing more.
- Poor coordination - lack of communication may cause confusion in integration.

2. Technical Risks

- Bugs during demo - app might crash or payment simulation may fail.
- Integration issues - frontend and backend might not connect smoothly.
- Unfinished features - AI seat recommendation or wallet might remain incomplete.

3. Resource Risks

- Limited knowledge - team may struggle with new tools/tech stack.
- Tool failures - IDE, hosting server, or database setup might cause delays.

4. Academic Risks

- Scope too big - too many features may reduce quality if rushed.
- Incomplete documentation - report/presentation may not meet evaluation requirements.
- Demo readiness - risk of last-minute technical issues during evaluation.

Risk Matrix

Probability \ Impact	Low	Medium	High
High	–	Unfinished features, Scope too big	Bugs during demo, Integration issues
Medium	–	Unequal workload, Poor coordination, Limited knowledge	Missed deadlines, Demo readiness issues
Low	–	Tool failures, Incomplete documentation	–