team_taskk.md 2025-08-26

Team Plan – Hotel Reservation System

1. Team Composition (4 Members)

Role	Member	Responsibilities
Team Lead / Backend Developer	Member 1	 Lead overall architecture & coding standards Design and implement ASP.NET Core Web API Handle business logic (reservations, room availability, pricing) Integrate with SQL Server database Manage deployment and CI/CD
Frontend Developer	Member 2	 Design and implement ASP.NET Core MVC (Razor pages / Blazor) or Angular/React UI Develop customer-facing pages (search, booking, payments) Develop admin dashboard (room management, reservations) Ensure responsive and accessible design
Database Engineer	Member 3	 Design database schema (ERD, relationships) Write SQL scripts, stored procedures, indexing Ensure data integrity and normalization Handle migrations and performance optimization Backup & restore strategy
QA Engineer / DevOps	Member 4	 Write test cases (unit, integration, system tests) Automate testing (xUnit, Selenium) Set up CI/CD pipelines (GitHub Actions, Azure DevOps) Monitor performance and security Manage deployment environment (Docker/Kubernetes optional)

2. Project Timeline (Phased Approach – 8 Weeks Example)

Phase	Duration	Tasks	Responsible
1. Requirements & Planning	Week 1	Finalize SRSDefine use cases, user storiesIdentify tech stack & toolsCreate ERD & UML diagrams	Team Lead + All
2. Database & Backend Setup	Week 2– 3	 - Create SQL Server schema - Build core models (User, Room, Reservation, Payment) - Implement APIs (search, booking, cancellation) - Unit testing backend 	Backend + Database

team_taskk.md 2025-08-26

Phase	Duration	Tasks	Responsible
3. Frontend Development	Week 3– 5	Build customer-facing pages (search, booking)Build admin dashboardIntegrate APIs with UIStyling & responsive design	Frontend
4. Payment & Authentication	Week 5– 6	 Implement user authentication (Identity / JWT) Integrate payment gateway (Stripe/PayPal) Secure API endpoints 	Backend + Frontend
5. Testing & QA	Week 6– 7	Write test casesConduct integration testingFix bugs & optimize performance	QA
6. Deployment & Documentation	Week 8	Deploy on Azure/AWSPrepare user manualFinal presentation & training	Team Lead + QA

3. Tools & Environment

• Version Control: GitHub / GitLab

• Project Management: Jira / Trello / Azure DevOps Boards

• Backend: ASP.NET Core Web API

• Frontend: ASP.NET Core MVC (or Blazor)

• Database: Microsoft SQL Server

• **Testing**: xUnit, Selenium

• **Deployment**: Azure App Service / Docker Containers

4. Communication Plan

• **Daily Stand-ups**: 15 min sync (progress + blockers).

• Weekly Sprint Review: Demo features completed.

• **Tools**: Slack / Microsoft Teams + GitHub Issues for tracking.

team_taskk.md 2025-08-26

