

# 1. Project Overview

The **Bookify Hotel Reservation System** is a web-based platform built using **ASP.NET Core** that enables users to search, view, and book hotel rooms online. The system simplifies hotel management operations, enhances user experience through an interactive interface, and automates the booking and payment process.

# 2. Objectives

- To provide a reliable and user-friendly hotel booking platform.
- To allow customers to browse hotels, check room availability, and make reservations online.
- To provide administrators with efficient tools for managing hotels, rooms, bookings, and customers.
- To integrate secure payment options.
- To maintain an up-to-date database of hotels, rooms, and bookings.

# 3. Project Scope

- User registration and authentication.
- Hotel and room listing management.
- Room availability search.
- Booking creation, modification, and cancellation.
- Payment gateway integration (simulation or real API).
- Review and rating system for hotels.
- Admin dashboard for monitoring and reports.

## 4. Tools and Technologies

Category	Tools / Technologies
Frontend	HTML5, CSS3, Bootstrap, JavaScript
Backend	ASP.NET Core MVC, C#
Database	Microsoft SQL Server
IDE	Visual Studio 2022
Version Control	Git & GitHub

## 5. System Features

### 1. User Module

- Register, log in, and manage profile.
- Search hotels and rooms by location, date, or price.
- Book and pay securely.

### 2. Admin Module

- Manage hotels, rooms, and users.
- View and approve bookings.
- Generate reports and analytics.

### 3. Hotel Management Module

- Manage room availability and pricing.
- View booking history.
- Respond to customer reviews.

## 6. Project Timeline (Estimated)

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Phase	Duration	Deliverables	
Requirement Gathering	1 week	Requirement specification	
System Design	1 week	Architecture & database schema	
Development	3 weeks	Functional web app	
Testing	1 week	Test report & debugging	
Deployment	1 week	Live or local deployment	
Documentation	Continuous	Final documentation	

## 7. Deliverables

- Functional ASP.NET Core web application.
- SQL Server database.
- Source code (on GitHub).
- Documentation (Planning, Stakeholder, Database Design).
- Presentation and report (optional).

## 8. Success Criteria

- The system runs without critical errors.
- Booking and payment processes work correctly.
- Admin can manage data efficiently.
- Users can easily navigate and complete bookings.