**Project Name**

. Bookify Hotel Reservation System

**Project Idea**

**Bookify is a full-stack ASP.NET Core web application designed to simplify hotel reservations. It allows customers to search rooms, view details, and book with secure Stripe payments. Admins can manage rooms, types, and bookings through a powerful dashboard. The system follows N-Tier architecture with Repository and Unit of Work patterns for scalability, maintainability, and clean code.**

**Team Members (pentaRae)**

* **Mohammed Abdelraouf Ahmed (Team Leader)**
* **Mohamed Magdy Abdelsamea**
* **Hussein Mahmoud Fouad**
* **Ramez Sameh Soliman**
* **Remon Reda Agayby**

**Work Plan**

1. **Research & Analysis**
   * Audience personas
2. **Visual Identity**
   * Logo design
3. **Main Designs**
   * Poster
4. **Complementary Products**
5. **Review & Finalization**
6. **Final Presentation**

**Roles & Responsibilities**

Remon Reda Agayby (BackEnd, FrontEnd, QA) – Implements both frontend and backend features and conducts application testing for bug fixing.

Ramez Sameh Soliman (FrontEnd, Database, DevOps) – Develops frontend interfaces, supports database integration, and contributes to deployment automation.

Hussein Mahmoud Fouad (BackEnd, Database) – Focuses on backend services, database optimization, and query performance tuning.

Mohamed Magdy Abdelsamea (BackEnd, Database, QA) – Works on backend logic, designs database schema, and performs quality assurance testing.

Mohammed Abdelraouf Ahmed (BackEnd, FrontEnd, DevOps) – Responsible for setting up the architecture, implementing backend APIs, and managing CI/CD pipelines.

**KPIs (Key Performance Indicators)** – Metrics for project success (e.g., response time, system uptime, user adoption rate).

- User adoption rate: at least 50 unique active users in the first demo week.

- No more than 2 critical bugs remain open at the final delivery stage.

- Admin panel operations (adding rooms, updating bookings) should complete within 3 seconds.

- Payment success rate through Stripe integration should exceed 98%.

- At least 200 successful room bookings should be processed during testing phase.

- System uptime must be at least 99.5% during the project evaluation period.

- System response time should be less than 2 seconds for 95% of user requests.

**Instructor**

* **Engineer: Hesham Mohamed**

**Project Files**

You can find the full project files here:

[**GoogleDriveLink**](https://drive.google.com/drive/folders/1aASzAOELCOFJ17qxE-LM8e_veMD-ZgR1)**.**

[**GitHub**](https://github.com/mohammedabdelraouf/Bookify)

**License**

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