Hotel Room Reservation System

HubTech Solutions

Adan Delgado
Ghaith Ishaq
Agustin Sandoval
Rymma Won

Project Overview

a complete online hotel reservation system that makes it simple for users to explore, book, and manage reservations. Features that are geared for mobile and the web include room administration, booking management, transaction reports, and more.

Key Architectural Drivers

The architecture is driven by requirements related to scalability, security, usability on mobile and web platforms, and integration capabilities for administrative and payment processing.

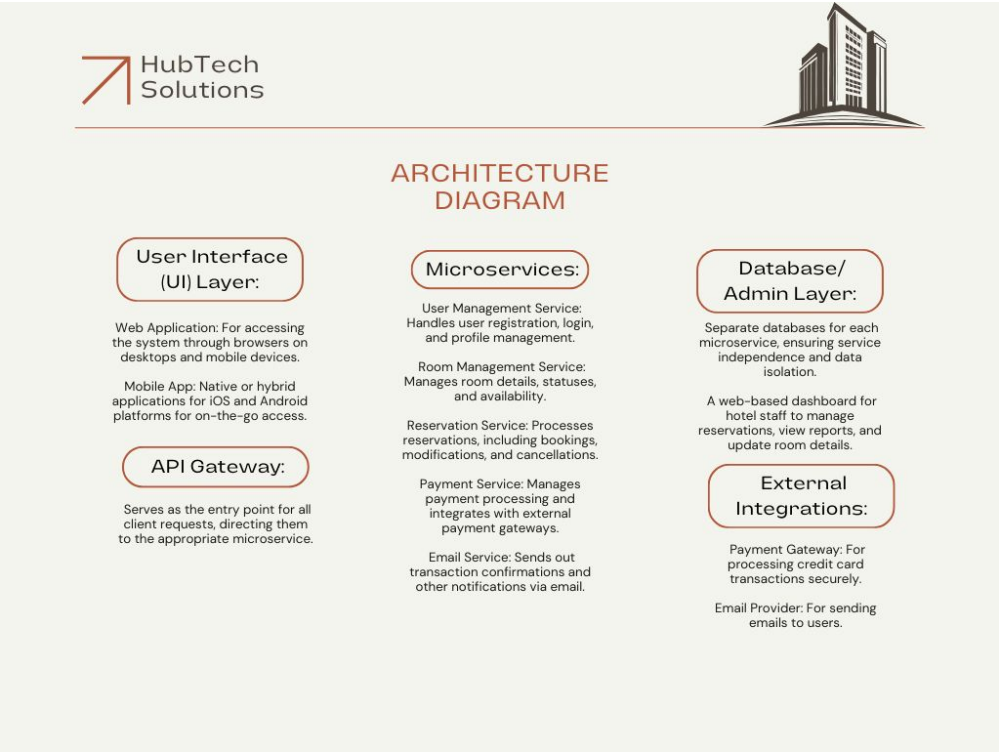
Architectural Style Choices

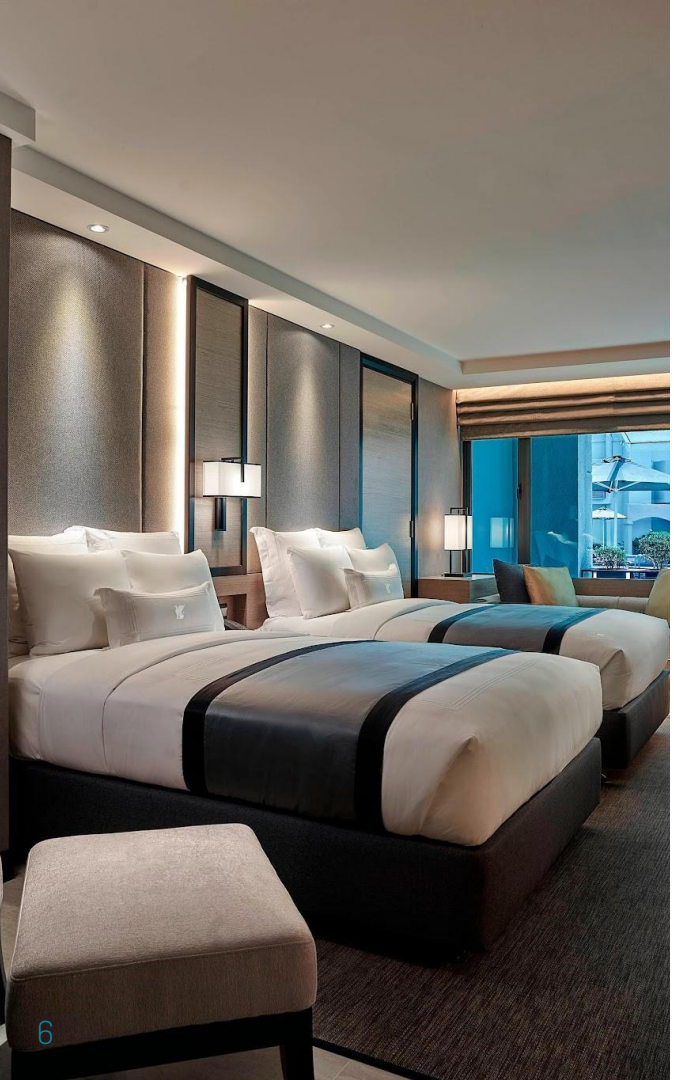
Evaluated styles:

- Microservices for flexibility and scalability.
- Monolithic for simplicity and development speed.

Chosen style: Microservices because of the ease of integrating different services and the requirement for scalability.

Architecture Diagram Overview:





Conclusion

A Microservices architecture is used in our system to guarantee scalability and flexibility.

Key Issues include managing service communication, integrating payment services, and guaranteeing data security.