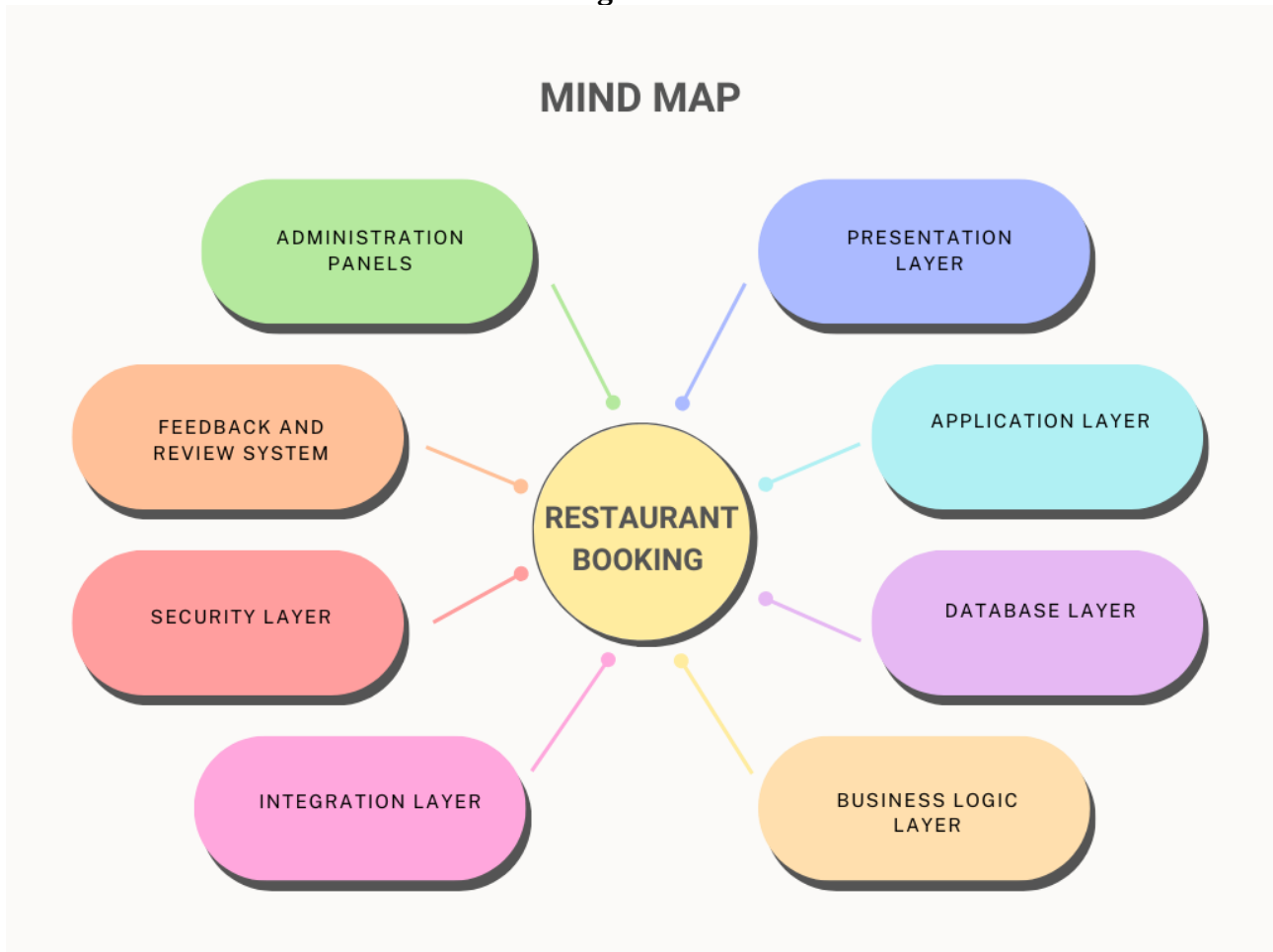


DESIGN PAHSE PART 1

Solution Architecture for Creating a Table Reservation Website in Canva



The creation of a table reservation website for hotels involves a complex web architecture that seamlessly integrates various components to provide a user-friendly experience for both customers and hotel staff. Below is a comprehensive solution architecture for building such a website using Canva for design elements.

1. Presentation Layer:

The presentation layer is the user interface where customers interact with the website. Using Canva, we can design a visually appealing and user-friendly front-end with the following components:

- User Interface (UI): Canva's design tools will be instrumental in creating wireframes and mockups for the website's pages, ensuring an intuitive and aesthetically pleasing design.
- Web Pages: Designing the layout and appearance of web pages, including the homepage, search results, restaurant profiles, reservation forms, and user profiles.
- Visual Elements: Designing buttons, icons, and other visual elements that enhance the user experience.
- Responsive Design: Ensuring the website is responsive to different screen sizes and devices.

2. Application Layer:

The application layer contains the logic and functionality of the website. It includes various modules and components:

- **Reservation System:** This module handles the core functionality of making and managing reservations. Canva can assist in designing user-friendly reservation forms with visual cues for ease of use.
- **User Registration and Authentication:** Canva can be used to design registration and login screens. The website should securely manage user accounts and authentication processes.
- **Search and Filtering:** Designing search filters and sorting options for users to find hotels based on their preferences.
- **Notification System:** Creating email templates for reservation confirmations and reminders to be sent to customers.

3. Database Layer:

The database layer stores and manages all the data necessary for the website's operation. It includes:

- **Customer Data:** Storing user profiles, contact information, and reservation history.
- **Hotel Information:** Storing details about hotels, including room availability, pricing, and amenities.
- **Reservation Data:** Managing reservation records, including reservation dates, times, and customer preferences.
- **Review and Rating Data:** Storing customer reviews and ratings for hotels, if applicable.

4. Business Logic Layer:

The business logic layer comprises the core functionality of the website. It involves:

- **Reservation Processing:** Managing customer requests and matching them with hotel availability. Canva can help create flowcharts for this process.
- **User Account Management:** Implementing features such as profile updates, password resets, and account deletion.
- **Review and Rating Management:** Allowing customers to submit reviews and ratings for hotels, if desired.

5. Integration Layer:

This layer is responsible for connecting the website with external services and APIs, including:

- **Payment Gateways:** Integrating with payment gateways for processing reservation payments securely.
- **Geolocation Services:** Incorporating geolocation services for location-based searches.
- **Social Media Integration:** Allowing users to log in using their social media accounts or share their reservations on social platforms.

6. Security Layer:

Ensuring the website is secure is of utmost importance. Canva can be used to create security-related visual elements, such as SSL certificate logos for secure connections and privacy policy graphics.

7. Feedback and Review System:

If desired, the architecture can include a feedback and review system. Users can submit reviews and ratings for hotels, contributing to transparency and trust. Canva can be employed to design review submission forms and rating displays.

8. Administration Panel:

For hotel staff and administrators, an admin panel can be designed using Canva. This panel enables them to manage hotel information, reservations, and customer inquiries effectively.

In conclusion, the solution architecture for creating a table reservation website in hotels using Canva covers all essential layers and components necessary for a successful and efficient website. Canva's design capabilities play a crucial role in creating an appealing and user-friendly front-end, ensuring that the website not only functions well but is visually engaging. The architecture aims to provide a seamless reservation experience for users and efficient management tools for hotel staff, ultimately enhancing customer satisfaction and operational efficiency in the hotel reservation process.