

## **DESIGN PHASE PART 2**

### **Open Source and Frameworks**

Building a table reservation website for hotels involves utilizing open-source technologies and frameworks to streamline the development process. In this discussion, we will explore the key components, open-source tools, and frameworks that can be employed to create such a website.

#### **1. Content Management System (CMS):**

- A CMS simplifies content management, making it easier to update and modify website content. WordPress, a popular open-source CMS, can be integrated to handle static pages, blog posts, and other non-dynamic content.
- Canva can be used to design custom templates for WordPress themes, ensuring a unique and visually appealing website.

#### **2. Front-End Frameworks:**

- Front-end frameworks are essential for responsive, user-friendly web design. Bootstrap and Foundation are widely used open-source front-end frameworks that provide pre-designed templates and responsive grids.
- Canva designs can be incorporated into these frameworks to create visually engaging web pages, ensuring a consistent and attractive user interface.

#### **3. Back-End Frameworks:**

- Back-end frameworks handle the server-side logic and data processing. For table reservation websites, Django (Python), Ruby on Rails (Ruby), or Express.js (Node.js) are popular open-source options.
- These frameworks facilitate user authentication, reservation processing, and database interactions. Canva designs guide the development of user interactions and forms.

#### **4. Database Management:**

- To store and manage user data, hotel information, and reservations, open-source database management systems like MySQL, PostgreSQL, or MongoDB can be employed.
- Canva can influence the design of database schemas by visualizing data entities and relationships, helping maintain data integrity.

In conclusion, creating a table reservation website in Canva is enhanced by integrating open-source technologies and frameworks. These tools simplify the development process, provide a consistent and responsive user interface, and ensure efficient data management. Canva's design capabilities enable the creation of visually appealing web pages and templates, ensuring a unique and engaging website. The combination of open-source and Canva resources leads to a robust and visually stunning table reservation website for hotels.