Professional Certificate Program in Full Stack Development - MERN
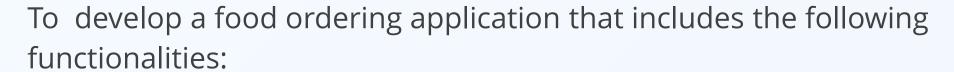
Phase-End Project
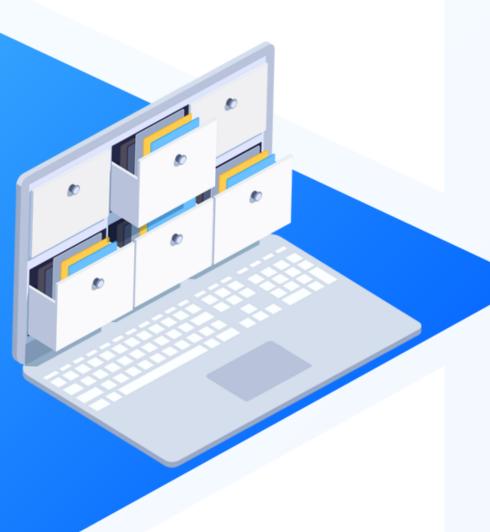
Online Food Ordering Application

Objective

To develop a food ordering application that includes the following functionalities:

- Registration
- Login
- Filter food categories
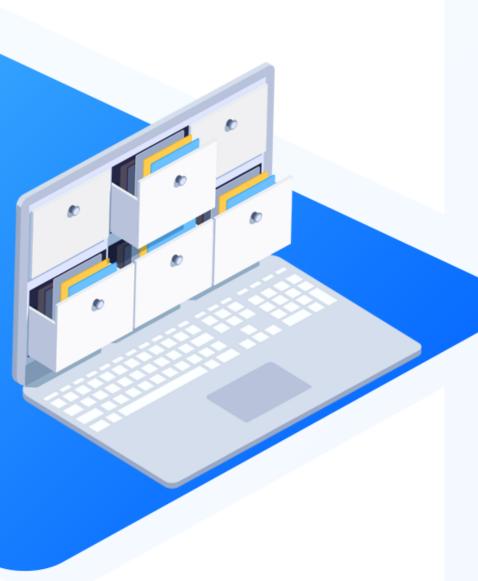- Adding items to the cart
- Payment gateway

Problem Statement and Motivation

Real-time scenario:

The online food ordering application is a website tailored for the food delivery industry. It enables hotels and restaurants to expand their business reach while minimizing labor costs. This system simplifies the management of an online menu, allowing customers to effortlessly browse and add items to their wish list.
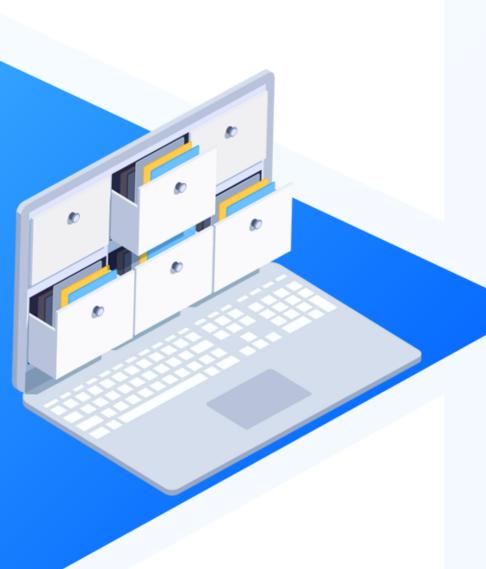
As a front-end developer for an online food ordering application, your primary role involves designing a user-friendly and responsive interface, ensuring compatibility across various devices. Key tasks include coding the frontend functionality using web technologies, integrating with backend services for features like user authentication and order processing, and implementing a secure login for administrators.

Industry Relevance

The following tools are widely being used in the industry to design the frontend of a web application:
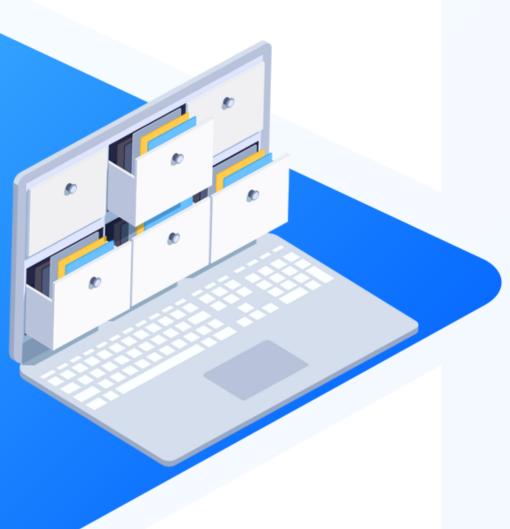
1. **Git:** It serves as a version control system, allowing developers to track changes, collaborate on different versions of the codebase, and manage updates without overwriting any part of the project.

2. **HTML:** It is used to structure the content on the web pages, laying out the foundation for text, images, and other multimedia elements in the project.

3. **CSS:** It is employed to style and layout the web pages designed with HTML. It controls the visual appearance, from fonts and colors to spacing and responsiveness.
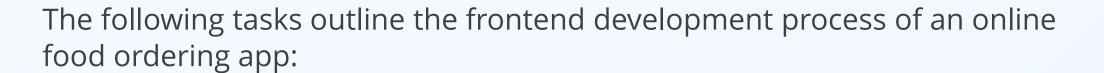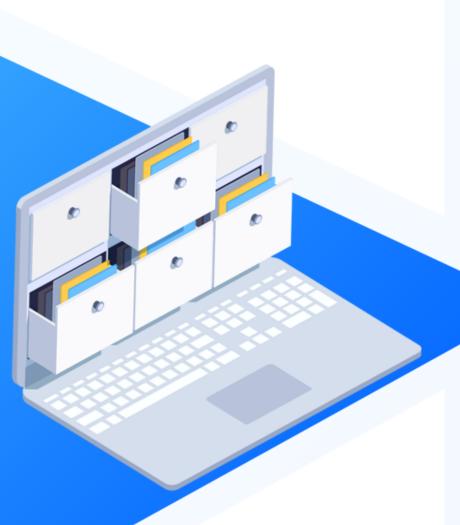
Industry Relevance

4. **JavaScript:** It adds interactivity and dynamic elements to the web pages. It is used for client-side scripting to create responsive, interactive elements for the user interface.

5. **Bootstrap:** It is a front-end framework used for designing responsive and mobile-first web pages. It provides pre-written CSS and JavaScript templates for various interface components, significantly speeding up the development process.

Tasks

The following tasks outline the frontend development process of an online food ordering app:

1. Set up a remote Git repository on GitHub to manage and track the development of the frontend

2. Use HTML to lay out the structural foundation of the application

3. Apply CSS to style the HTML elements, focusing on visual appeal, layout, and responsiveness

4. Integrate Bootstrap for its responsive design components

5. Use JavaScript to add dynamic features, such as interactive menus, form validations, real-time updating of cart items, and handling user events

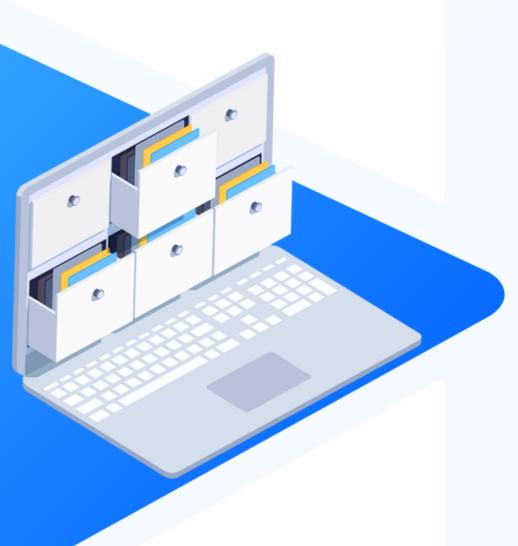6. Implement AJAX calls for loading menu items or sending data to the server without refreshing the page

Project References

- **Task 1:** Lesson 2
- **Task 2 and 3:** Lesson 3
- **Task 4:** Lesson 6
- **Task 5 and 6:** Lesson 4 and 5

Thank you