Health Information and Service Locator with JavaScript Testing

Overview

Develop a "Health Information and Service Locator" web application that provides comprehensive health-related information and assists users in locating health services. The application will utilize NHS APIs for data retrieval. A key component of this project is the implementation of JavaScript testing to ensure code reliability and functionality.

Objectives

Create a user-friendly and informative platform for health service information.

Implement robust JavaScript testing to ensure application reliability.

Make the application accessible and functional across various devices.

Key Features

Health Service Locator: Enable users to find healthcare providers and pharmacies, integrating NHS API data for detailed information.

Medication Information: Provide detailed medication information using NHS Prescribing and Pharmacy APIs.

Health Tips and News: Regularly updated health tips and news, sourced from NHS content.

Symptom Checker: A tool for basic symptom analysis with a disclaimer for professional medical advice.

Technical Requirements

Front-End Development: Use HTML, CSS, and JavaScript for development with a focus on a responsive design.

API Integration: Implement NHS APIs for real-time data processing and display.

Asynchronous JavaScript: Efficiently handle API calls using async/await.

Testing Requirements

Unit Testing: Implement unit tests for individual components/functions using a framework like Jest or Mocha. This ensures that each part of the application works correctly in isolation.

Integration Testing: Perform integration tests to verify that different parts of the application work together as expected.

End-to-End Testing: Use tools like Cypress or Selenium for end-to-end testing to simulate real user scenarios and ensure the application behaves correctly from start to finish.

Test Coverage: Aim for a high level of test coverage, ensuring most of the codebase is tested.

Additional Considerations

User Experience: Prioritize intuitive navigation and ease of use.

Data Privacy: Adhere to data protection regulations and best practices in handling user data.

Scalability: Design the application with potential future enhancements in mind.

Deliverables

A fully functional web application with the specified features.

Comprehensive test suite covering unit, integration, and end-to-end tests.

Documentation including a user guide, codebase annotations, and technical specifications.

A presentation showcasing application features and the development and testing process.