MediConnection

Test Results

Error 1:

Error encountered: Bug encountered during the compilation of the Project.

Test code: Unit Testing

Root cause: SocketIO was initially placed in the MongoDB creation, which flagged multiple

errors.

Solution: Isolate the SocketIO code (Extracted it from local Schema creation).

Error 2:

Error encountered: Patient profile data not being displayed correctly

Test code: Unit test for rendering patient profile component

Root cause: Incorrect data mapping from the API response to the component's state

Solution: Modify the data mapping to match the expected structure of the patient profile component

Error 3:

Error encountered: Unable to create a new appointment

Test code: End-to-end test for the appointment creation workflow and integration testing

Root cause: Missing validation for required appointment details (e.g. date, time, doctor)

Solution: Implement validation checks for required fields and display error messages when necessary

Error 4:

Error encountered: Unable to save prescription data to database.

Test code: Integration test for saving prescription data to the database

Root cause: Incompatible data types between the application and the database schema

Solution: Update the data types in the database schema and ensure proper data conversion during

save operations

Error 5:

Error encountered: Chat messages not updating in real time

Test code: End-to-end test for chat system functionality

Root cause: Inefficient use of polling for message updates

Solution: Implement real-time updates using WebSockets to ensure smooth communication between

users

Error 6:

Error encountered: available time slots for appointments not displaying correctly

Test code: Unit test for rendering appointment time slots, interface testing

Root cause: Incorrect filtering of available time slots based on doctor's availability

Solution: Improve filtering logic to accurately display available time slots

Error 7:

Error encountered: Inconsistent UI/UX across different pages

Test code: Interface testing

Root cause: Inconsistent usage of Bootstrap components and custom CSS

Solution: Standardize the usage of Bootstrap components and create a shared style guide to maintain

consistency

Error 8:

Error encountered: Application crashes when a user tries to access an unauthorized page

Test code: Integration test for user authorization and access control

Root cause: Missing error handling for unauthorized access attempts

Solution: Implement proper error handling and redirect unauthorized users to a suitable error or login

page

Error 9:

Error encountered: Slow loading times for patient profiles and page content

Test code: Performance testing

Root cause: Inefficient data fetching and rendering patterns

Solution: Implement lazy loading, and/or caching to improve performance

Error 10:

Error encountered: Security vulnerabilities in the authentication system

Test code: Security testing and penetration testing

Root cause: Weak encryption methods and lack of validation checks

Solution: Use secure encryption algorithms (e.g., bcrypt) and implement server-side validation to

prevent unauthorized access and data breaches