Progress Report: Clinic Database Web App Project

Date: September 8, 2023

Project: Clinic Database Web App

Project Manager: *Kapanshya Swaba*

Computer Number: **2021434141**

Course code: CSC 2702

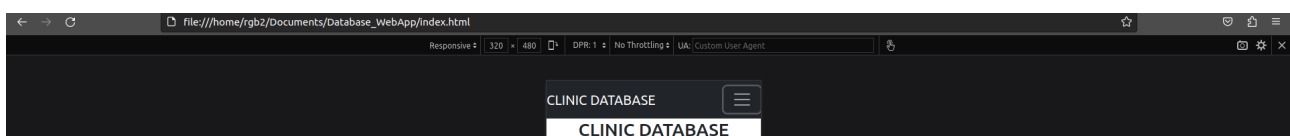Project Status: I**n Progress**

Intro Summary:
This progress report outlines the current status of the Clinic Database Web App project. The project aims to create a comprehensive web application for managing patient records, Nurses on duty, and Wards where patients are kept. The development has been underway for the past two days, and this report provides an overview of accomplishments, challenges, and the path forward.

Accomplishments:

1. Project Initiation: The project was officially started on June 1, 2023, with the formation of a dedicated project team consisting of developers, designers, and a project manager.

2. Requirements Gathering: Extensive research and consultation with experinced web developers, consisting of experinced developers in the filed, are being conducted to gather comprehensive requirements for the web app.

3. Database Design: The database schema has been designed,fully functional and ensures the efficient storage and retrieval of patient information, Nurse recodes, and clinic resource management.

4. User Interface Design: The user interface (UI) for the web app has been designed with a focus on usability and a clean, intuitive layout. Mockups and wireframes have been created and are yet to be decided on which will be implented in the final WebApp.

5. Backend Development: Backend development has begun, with key functionalities such as user authentication, patient record management are being implemented.

6. Frontend Development: Frontend development is underway, with HTML, CSS, and JavaScript frameworks being utilized to create the user interface. A responsive design using bootstrap approach is being employed to ensure compatibility with various devices.

7. Testing: An initial round of testing is being conducted, primarily focused on the database system and the responsiveness of the site.

Challenges:

1. Integration Complexity: Integrating various modules and ensuring seamless communication between frontend and backend components has posed some challenges, particularly in connection the database to the web app.

2. Data Security: Ensuring the security of sensitive patient data has been a continuous concern, leading to additional development efforts for encryption and access controls.

3. Resource Constraints: Adhering to project timelines has been challenging due to resource constraints, such as limited developer availability and unexpected technical issues.

Next Steps:

1. UI Approval: Seek approval from the lecture for the UI designs and make necessary adjustments based on feedback.

2. Continued Development: Continue backend and frontend development, focusing on implementing remaining functionalities, including reporting, and resource allocation.

3. Security Audit: Conduct a thorough security audit to identify and address potential vulnerabilities in the system and mitigate common attacks such as sql injections.

4. User Testing: Initiate user testing with a select group of staff to gather feedback and make usability improvements.

5. Documentation: Begin documenting the system's architecture, deployment procedures, and user manuals for future reference.

Project Timeline:

- Backend and Frontend Development: Ongoing
- UI Approval: Ongoing
- User Testing: Ongoing
- Documentation: November 10, 2023
- Final Testing and Quality Assurance: November 15, 2023
- Deployment: November 22, 2023

Conclusion:

The Clinic Database Web App project is making steady progress, with most of the foundational work completed. Commitment to address the challenges and ensuring that the web app meets all the requirements and security standards. Regular updates and communication with Lectures will continue to be a priority as we move forward. We remain confident in our ability to deliver a robust and user-friendly solution on schedule.