Full Stack Developer Assessment

Project Name: DNS Manager

Purpose:
Develop a web application to provide a central dashboard for automating management of domains and DNS records in bulk on AWS.

- **Task 1: Setup**
  - Set up a Full stack environment for the DNS Manager project.
  - Ensure that you have access to AWS services for backend integration.

- **Task 2: Frontend Development**
  - Develop a simple dashboard using React for uploading and viewing domains and DNS records in a tabular format.
  - Implement forms/modals for adding, editing, and deleting DNS record entries for domains.

- **Task 3: Enhancements**
  - Enhance the dashboard with filters and search options for easy navigation of bulk data.
  - Incorporate graphical charts/metrics to display domain and record type distribution.
  - Integrate CSV or JSON bulk uploads for domain/records data.

- **Task 4: Backend Integration**
  - Set up backend API endpoints using Node.js and Express to connect the UI to the DNS system on AWS.
  - Implement API calls for CRUD operations on DNS records.

- **Task 5: User Interface**
  - Design status indicators, alerts, and notifications for user guidance.
  - Implement secure user authentication and authorization using JWT or OAuth.

Resources:

- AWS Route 53 documentation: https://aws.amazon.com/route53/

Evaluation Criteria:

- **Functionality:** Does the application meet the specified requirements?

- **Code Quality:** Is the code well-structured, readable, and maintainable?

- **UI/UX:** Is the user interface intuitive and visually appealing?

- **Error Handling:** Does the application handle errors gracefully?

- **Security:** Is user authentication implemented securely?

- **Bonus Features:** Are any of the bonus features implemented?

Submission Requirements:
- The submission should be in DOCX or PDF format.
- The candidate should not provide any external links to previously completed projects.
- Submit your project code along with any necessary setup instructions and documentation through https://link.krite.sh/fullstack by **March 20th, 11:59 PM.**
- If selected for further consideration, you will receive a response within 2-3 working days. If not, it may take longer due to the volume of submissions.
- Complete each task according to the specifications provided.
- Ensure that your code is well-structured, readable, and follows best practices.
- Provide clear instructions for running your code and accessing the application.
- Please include some snippets of the output of the assessment in the solution file. This will facilitate our evaluation process.

Note:

Plagiarism or unauthorized use of code from external sources will result in disqualification. Candidates are expected to demonstrate their own skills and understanding of Full Stack development concepts.