

# MERN 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 GCP.

- **Task 1: Setup**
  - Set up a MERN stack environment for the DNS Manager project.
  - Ensure that you have access to GCP 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 GCP.
  - 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:

- Google Cloud DNS documentation: <https://cloud.google.com/dns/>

### 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?