

Full-Stack Development Assignment

Objective:

Demonstrate your web development skills by building a dashboard with key features and, optionally, showcase your mobile app development skills by creating a companion Flutter app.

ANY TECH STACK CAN BE USED IN CASE YOU ARE NOT COMFORTABLE WITH REACT/NODE/PYTHON.

INCLUDING SCREEN RECORDING OF FINAL DEVELOPED ASSIGNMENT IS MANDATORY.

Part 1: Web-Based Dashboard (Mandatory)

Tasks:

1. **Organization and Team Management:**
 - Build a web application to:
 - Register organizations with basic details (name, email, location).
 - Add teams under organizations.
 - Add individual members under teams with unique IDs.
 - Display a hierarchical list of organizations, teams, and individuals.
 2. **File Upload:**
 - Allow image uploads for individual profiles (via camera or file upload).
 - Associate uploaded images with individual profiles.
 3. **Status Display:**
 - Add dynamic status markers to individual profiles:
 - "Image Not Uploaded" (red).
 - "Image Uploaded" (green).
 - Show these markers in the individual list view.
 4. **API Endpoint:**
 - Provide a REST API to fetch all individual records in JSON format.
 5. **Optional Bonus:**
 - Deploy the web application to a free hosting platform and share the live link.
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Part 2: Mobile App (Optional Bonus)

Tasks:

If you're experienced with Flutter or mobile app development, implement the following as a **bonus**:

1. **Organization and Team Management:**

- Build a Flutter app to:
 - Register organizations and teams (data saved locally using SQLite or Hive).
 - Add individual members under teams.

2. **File Upload:**

- Enable image uploads for individual profiles via the device's gallery or camera.
- Display the uploaded image as a thumbnail next to the individual's name in a list.

3. **Status Display:**

- Show dynamic status markers for individuals:
 - "Image Not Uploaded" (red).
 - "Image Uploaded" (green).

4. **Optional Sync Feature:**

- Sync the app's data with the web dashboard using the API endpoint created in Part 1.
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Submission Requirements

1. **Deliverables:**

- Original code for the web dashboard (mandatory).
- Original code for the Flutter mobile app (if attempted).
- A database schema or exported local database for reference.

2. **Screen Recording:**

- Show the features and functionality of your web dashboard (mandatory).
- Optionally, include a recording of the mobile app if developed.

3. **Documentation:**

- A README file for each project with:
 - Setup instructions to run the projects locally.
 - Description of implemented features.
 - Any assumptions or limitations.

4. **Submission:**

- Package everything into a Google Drive folder.
 - Include:
 - Web application folder (mandatory).
 - Mobile app folder (if developed).
 - Screen recording(s).
 - README files.
 - Share the Google Drive link.
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Evaluation Criteria

1. **Functionality:**

- Does the web dashboard meet the requirements?
- If submitted, does the mobile app reflect the optional bonus tasks?
- 2. **Code Quality:**
 - Is the code organized and easy to understand?
 - Are comments and documentation provided?
- 3. **UI/UX:**
 - Is the web interface user-friendly and visually appealing?
 - For the mobile app, is the navigation intuitive?
- 4. **Bonus Points:**
 - Submission of a working Flutter mobile app.
 - Deployment of the web application.
 - Integration of data sync between mobile and web.