

Full-Stack Intern Assignment

Objective

Your task is to build a full-stack application using a provided Figma design for the frontend and specified technologies for both frontend and backend. The application will consist of a React-based frontend with TypeScript and a Node.js backend with Prisma, adhering to modern development practices.

Frontend Requirements

- **Figma Design Conversion:**
 - Convert the provided Figma design [link](#) into a fully functional React application.
 - Use **TypeScript** for all code to ensure type safety.
 - **Project Structure:**
 - Organize the project into three main areas:
 - **UI Components:** Reusable and modular components reflecting the Figma design.
 - **Business Logic:** Separate logic from UI for reusability and maintainability (e.g., using hooks or utility functions).
 - **API Handling:** Manage API interactions efficiently.
 - **Required Libraries:**
 - **Zod:** Implement schema validation for data integrity.
 - **React Hook Form:** Use for form management and validation.
 - **React Query:** Handle data fetching, caching, and state management.
 - **Type Safety:**
 - Ensure all API responses are typed using TypeScript interfaces or types for full type safety.
 - **Error Handling:**
 - Implement proper error handling in the frontend to manage API errors and display meaningful messages to the user.
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Backend Requirements

- **Technology Stack:**
 - Build a Node.js server using **TypeScript**.
 - Use **Prisma** for database management (schema definition and querying).
- **Prisma Schema:**
 - Create **only a user schema** in Prisma with the following fields:
 - email (string, unique)

- password (string)
 - Ensure the schema is properly defined and migrations are handled.
 - **Project Structure:**
 - Organize the backend into:
 - **Controllers:** Contain the business logic for each endpoint.
 - **Routes:** Define API endpoints (e.g., using Express.js or a similar router).
 - **Error Handling:**
 - Implement robust error handling (e.g., custom error classes or middleware) to manage and respond to errors gracefully.
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General Instructions

- **README Files:**
 - Include a detailed README in both the frontend and backend projects.
 - The README should cover:
 - Setup instructions (e.g., installing dependencies, configuring environment variables).
 - How to run the project locally.
 - A brief overview of the tech stack and project structure.
 - **Video Demonstration:**
 - Record a video showing the working application (both frontend and backend in action).
 - The video must:
 - Demonstrate the full functionality of the application.
 - Show **proper error handling from the frontend** (e.g., invalid inputs, API errors).
 - Confirm that the **project is working** as expected.
 - Share the video via a **Google Drive link**.
 - Ensure the video clearly demonstrates functionality; failure to show a working project will result in immediate disqualification.
 - **GitHub Repository:**
 - Provide a single GitHub repository containing both frontend and backend projects.
 - Use separate folders (e.g., /frontend and /backend) for clarity.
 - Ensure the repository is public or accessible to reviewers.
 - **Deployment:**
 - Deployment is **not required**; focus on local functionality.
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Evaluation Criteria

Your submission will be assessed based on the following:

- Accurate and complete implementation of the Figma design in the frontend.
 - Proper use of TypeScript for type safety across both frontend and backend.
 - Effective integration of Zod, React Hook Form, and React Query in the frontend.
 - Correct implementation of the user schema in Prisma (with only email and password) and its integration with the backend.
 - Clean, organized, and modular code structure in both projects.
 - Robust error handling in both frontend and backend.
 - Quality and clarity of the README files and video demonstration.
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Additional Notes

- The application must be fully functional with no critical bugs.
 - Focus on code quality, readability, and adherence to best practices.
 - This is an individual assignment; collaboration is not allowed.
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Submission

- Submit the following by: 31, March, 2025
 - The GitHub repository link containing both frontend and backend projects.
 - The Google Drive link to your video demonstration.
- Ensure both links are accessible to the reviewer.