README.md 2025-05-07

# eBuddy Technical Test

### **About**

This is a monorepo built with Turborepo that contains both frontend and backend applications. The project is structured as follows:

### **Apps**

- frontend-repo: A Next.js application with Material UI, Redux Toolkit, and Firebase integration
- backend-repo: An Express.js API server with Firebase Admin SDK integration

#### **Packages**

- @repo/dto: Shared Data Transfer Objects between frontend and backend
- @repo/eslint-config: Shared ESLint configurations
- @repo/typescript-config: Shared TypeScript configurations

## How To Run Locally

#### Prerequisites

- Node.js (version specified in <a href="https://www.nvmrc">nvmrc</a>)
- pnpm package manager

#### Setup

1. Clone the repository

```
git clone git@github.com:RofiSyahrul/ebuddy-technical-test.git
cd ebuddy-technical-test
```

2. Install dependencies

```
pnpm install
```

- 3. Set up environment variables (see Environment Variables section below)
- 4. Run the development server

```
pnpm dev
```

This will start both the frontend and backend applications in development mode.

README.md 2025-05-07

#### **Build for Production**

```
pnpm build
```

### **Environment Variables and Secret Files**

#### **Backend Application**

Create a <u>env</u> file in the <u>apps/backend-repo</u> directory with the following variables:

```
CORS_ALLOWED_ORIGIN=localhost
PORT=8080
```

Additionally, you'll need:

#### **Firebase Admin SDK Service Account:**

- The backend uses Firebase Admin SDK with application default credentials
- Place your Firebase service account key file in a location accessible by the application (\_/apps/backend-repo/service-account\_json)

#### Frontend Application

Create a .env.local file in the apps/frontend-repo directory with the following variables:

```
NEXT_PUBLIC_API_URL=http://localhost:8080
NEXT_PUBLIC_FIREBASE_API_KEY=your_firebase_api_key
NEXT_PUBLIC_FIREBASE_APP_ID=your_firebase_app_id
NEXT_PUBLIC_GCLOUD_PROJECT=your_gcloud_project_id
```

## **Development Workflow**

• Running specific apps: You can use the ——filter flag to run commands for specific apps:

```
pnpm dev --filter frontend-repo
pnpm dev --filter backend-repo
```

• Linting: Run ESLint across all projects:

```
pnpm lint
```

# **Project Structure**

README.md 2025-05-07

```
- apps/
- backend-repo/ # Express.js backend
- frontend-repo/ # Next.js frontend
- packages/
- dto/ # Shared data transfer objects
- eslint-config/ # Shared ESLint configuration
- typescript-config/ # Shared TypeScript configuration
```

# Technologies Used

• Frontend: Next.js, React, Material UI, Redux Toolkit, Firebase

• Backend: Express.js, Firebase Admin SDK

• Build Tools: Turborepo, esbuild

• Languages: TypeScript