**🧪 MVP Build Test – Family Investment Dashboard**

**Overview**

This is a short tech assessment to evaluate your ability to quickly build and deliver a working MVP for a real-world fintech product. The scenario is a simplified **parent-child investment dashboard**, focusing on a child-friendly experience with view-only access and family communication.

**🎯 Goal**

Create a working prototype of a **child’s investment dashboard** that pulls mock investment data, displays it in a simple, engaging format, and includes a **family group chat feature** shared across parent, co-parent, and child users.

**👥 User Roles**

There are 3 roles in this system:

* parent: Primary account owner, has full access to data and chat
* child: View-only dashboard, access to chat
* co-parent: View-only access (same as parent), access to chat

For the MVP, you can hardcode one mock family group and switch roles during login.

**✅ MVP Features to Build**

**1. Login Page**

* Role selector (parent / child / co-parent)
* Dummy username field
* On login, route to appropriate view

**2. Child Dashboard**

* Show:
  + **Total investment value** (e.g., “You have $3,200 today”)
  + **Monthly change** (e.g., “⬆️ Your money grew by $120 this month”)
  + **Simple growth chart** (line chart – use dummy data)
  + **List of 3–5 known brands** (e.g., Apple, Nike, Tesla – logos and friendly names)
* Button: **“Ask My Parent”** → opens group chat

**3. Family Group Chat**

* Shared chat view between parent, child, and co-parent
* Each message should show:
  + Sender (role: Parent, Child, Co-Parent)
  + Timestamp
* Basic styling + emoji support encouraged

**🔧 Tech Stack**

Recommended (but flexible):

* **Frontend:** React (or Next.js)
* **Backend:** Node.js + Express
* **Mock Data:** JSON files or in-memory storage
* **UI:** Basic CSS/React styling or Tailwind

No database or authentication setup required—mock data only.

**📦 Folder Structure (Suggested)**

bash

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/mvp-invest-dashboard

├── /frontend

│ ├── /components

│ ├── /pages

│ ├── App.js

│ └── ...

├── /backend

│ ├── /routes

│ ├── /controllers

│ ├── /mock-data

│ └── server.js

└── README.md

**🚀 Setup Instructions**

**1. Clone the repo**

bash

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git clone https://github.com/your-username/mvp-invest-dashboard.git

cd mvp-invest-dashboard

**2. Start backend**

bash

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cd backend

npm install

npm start

**3. Start frontend**

bash

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cd frontend

npm install

npm start

**📋 Deliverables**

* ✅ Working codebase (frontend + backend)
* ✅ README with setup instructions
* ✅ GitHub repo or ZIP file with code
* ✅ Optional: Live demo link (Netlify, Vercel, etc.)