

Fullstack Engineer - Take Home Assignment

Pocketrocket Labs

Objective

Build a full-stack app that helps remote teams track and review expenses, with role-based access control and visual insights.

Core Features

1. Authentication & RBAC
 - a. Email/password login
 - b. Roles: employee (can manage own expenses), admin (can view and act on all expenses)
2. Expense Tracking
 - a. Employee can: add/view expenses (amount, category, date, notes)
 - b. Admin can: view all expenses, filter, and change status (pending, approved, rejected)
3. Charts (Insights) (Admin-only)
 - a. Total expenses per category (bar chart)
 - b. Expenses over time (monthly breakdown)
4. Audit Logs
 - a. Log key actions: expense creation, status changes
 - b. Display logs on a basic admin-only page

Tech Expectations

Backend: Nodejs (Express/Nest etc)

DB: PostgreSQL/MongoDB

Auth: JWT or session-based

Charts: Any charting library (e.g., Chart.js, Recharts)

Frontend: Reactjs

Bonus (Optional)

CSV export

File upload for receipts (can be mocked) - Dockerized setup

Basic unit tests

Deployed version (Render, Railway, etc.)



Submission

- GitHub repo with README
- Include setup steps, architecture notes, trade-offs - Screenshots or live URL if hosted

Evaluation Criteria

- Code structure and clarity
- Secure and functional RBAC
- Working insights and charting
- Backend maturity (auth, status flows, data modeling)
- Practicality and basic UX (not visual polish)