

Personal Finance G-Tracker

Project Overview

The Personal Finance G-Tracker is a web-based application designed to help individuals track, manage, and analyze their personal income, expenses, and savings efficiently.

Problem Statement

Most individuals rely on manual methods such as notebooks or spreadsheets to track finances, which are error-prone and inefficient.

Objectives

- Centralized finance tracking
 - Expense categorization and analysis
 - Secure data handling
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Tech Stack

Frontend: HTML, CSS, JavaScript, React

Backend: Java (Spring Boot)

Database: MongoDB

System Architecture

Three-tier architecture including frontend, backend, and database layers.

1. Presentation Layer (Frontend)

- Developed using React
- Handles user interaction and UI rendering

2. Application Layer (Backend)

- Developed using Spring Boot
- Handles business logic, authentication, and authorization
- Exposes REST APIs

3. Data Layer (Database)

- MySQL relational database
 - Stores user data, profiles, jobs, events, and mentorship records
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Development Plan (8 Weeks)

Week 1: Requirement Analysis & Planning

- Define requirements and scope
- UI wireframes and architecture

Week 2: Database Design

- ER diagram
- Table relationships

Week 3: Backend Setup

- Spring Boot setup
- Database configuration

Week 4: Authentication & Security

- User login and registration
- Secure endpoints

Week 5: Transaction Management

- Add/edit/delete transactions
- Categorization

Week 6: Expense Analysis & Budgeting

- Monthly summaries
- Budget limits

Week 7: Frontend Development

- Dashboard UI
- API integration

Week 8: Testing & Documentation

- System testing
 - Final documentation
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Conclusion

The project helps users manage finances efficiently and demonstrates full-stack development skills.
