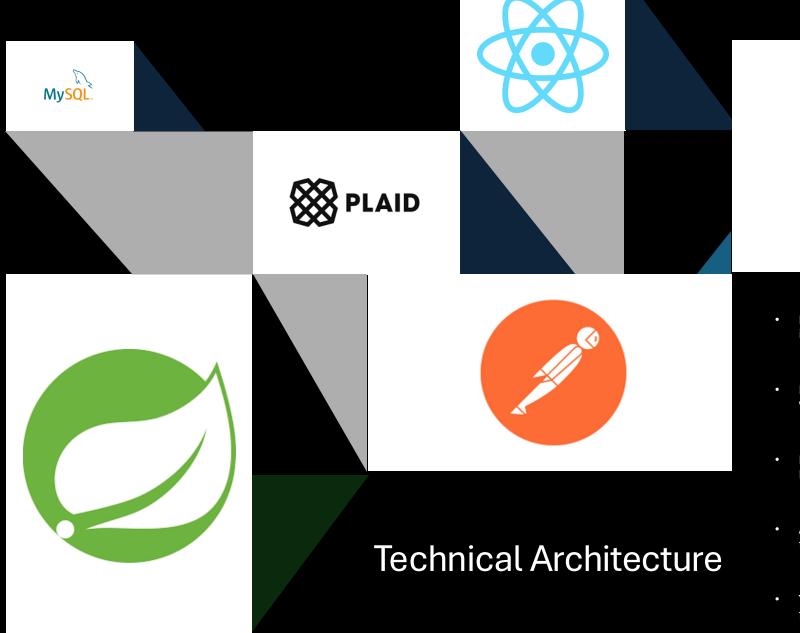


What is FlowTrack?

- FlowTrack consolidates fragmented financial data from multiple tools and departments.
- Integrates key features: transaction tracking, cash flow management, business overviews, and spending forecasts.
- Allows businesses to monitor financial health in real time.
- Enables precise tracking of income and expenses.
- Empowers businesses to confidently project future financial goals.
- Streamlines financial planning for better control and insight.





- **Frontend**: React provides an interactive, responsive interface for transaction history and cash flow statements.
- Backend: Java handles core logic, data processing, and workflow management.
 - **Database**: MySQL stores critical financial data, such as bank accounts, transactions, and forecasts.
- API Integration: Plaid API pulls real-time bank data for upto-date financial insights.
- **Testing:** Postman ensures accurate REST API endpoint functionality and dependable data delivery.

How Plaid Works



Track Transactions

Allows businesses to track all financial transactions.

How It Works:

- 1. User logs in
- 2. User links a bank account using Plaid Link
- 3. App fetches transactions from Plaid
- 4. Users can filter & categorize transactions

What It Does:

- Real-time transaction tracking
- Provides categorized transaction views
- Gives clear snapshot of financial activity without manual entry

Key Benefits:

- Time saver
- Enhances financial visibility
- Lightweight and Efficient



Created by indah rusiat from Noun Project

Business Overview & Create Statements

How It Works

- o Categorizes and summarizes data into
 - Total Revenue & Expenses
 - Net Cash Flow
- o Displays a summary of user's expenses

What it Does

- O Dynamic filtering of months and years to generate statement sheets
- Automatically groups revenue and expenses by category

Why It is Useful

- Helps users understand their financial trends over time
- Visual representation of category breakdowns throughout all accounts



Forecast Spending

What It Does

- o Predicts your spending for the next 3 months
- o Breaks it down by category: Food, Travel, Bills, etc.
- Shows results in a bar graph

How It Works

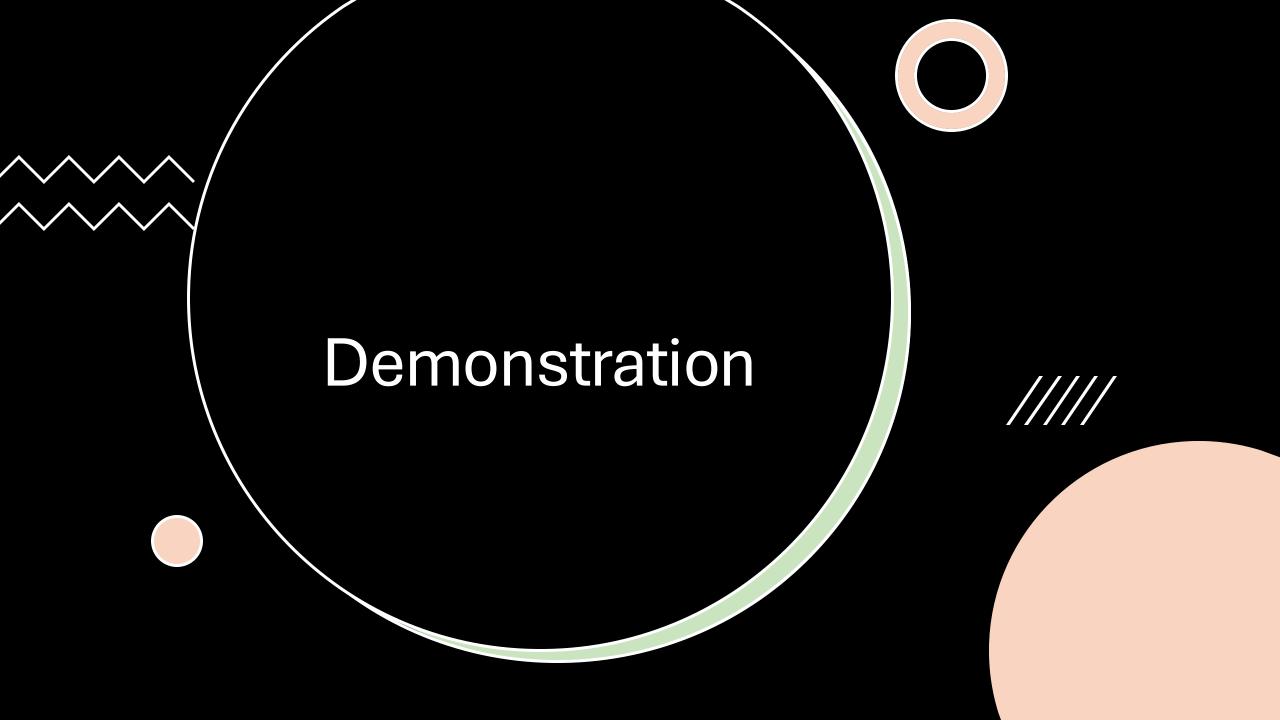
- o Pulls 6 months of past transactions via Plaid
- Calculates weighted averages—recent spending matters more
- Maps forecasts to 9 key categories with defaults for gaps

Why It is Useful

- Simplifies budgeting with clear visuals
- Adapts to your spending habits over time
- Helps you plan ahead, no guesswork needed



Created by Alena Artemova from Noun Project



Lessons Learned and Next Steps

Lessons Learned

- o API testing and integration into the application
- Robust project planning and system design
- Visualization drives user understanding
- Adequate resource allocation and task prioritization

Next Steps

- Expand the number financial statement types that can be generated (Balance Sheets, Income Statements, etc.)
- Al Integration to help streamline budgeting and forecasting
- o Incorporate more data visualization tools to improve user experience
- o Add ways to track not only transactions but also liabilities, such as Loans

Questions and Answers