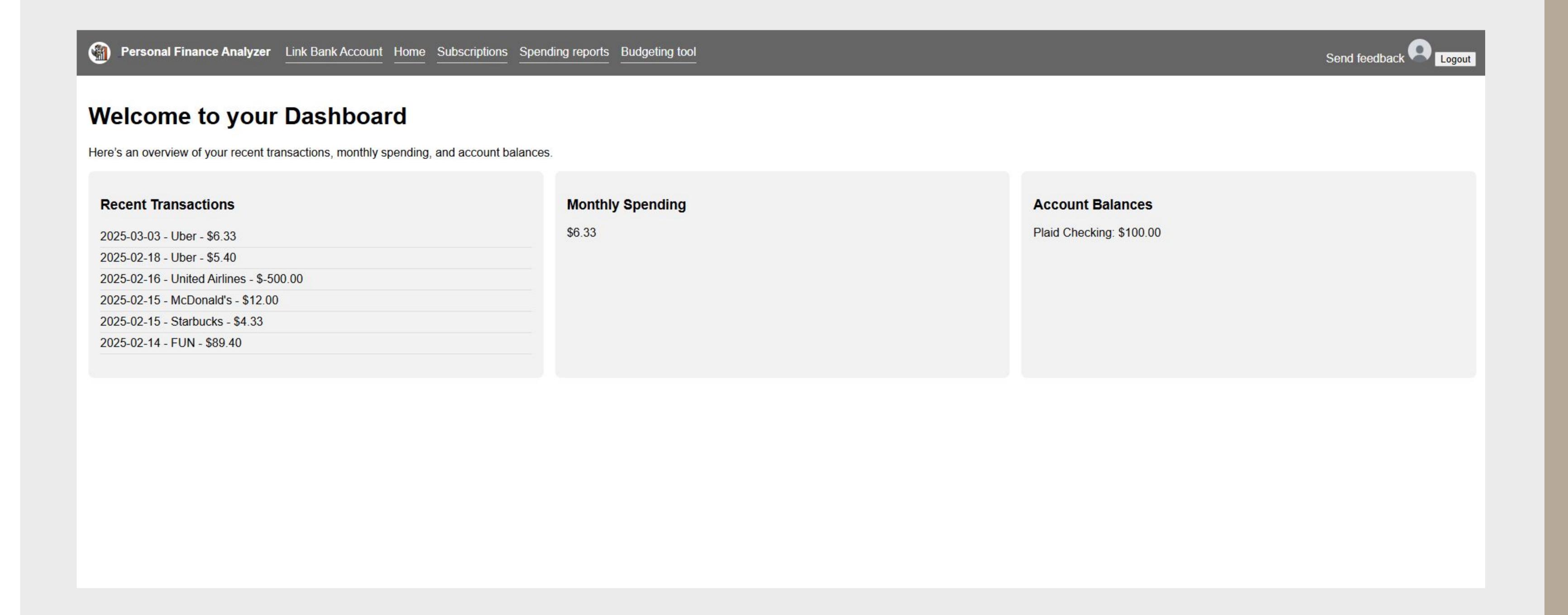
Dam Dollars

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Abstract

Dam Dollars is a web-based personal finance platform designed to help users simplify and optimize their money management. It offers tools for budget-setting, subscription tracking, and real-time financial analytics, consolidating all banking data into one intuitive dashboard. By centralizing financial details from multiple accounts and providing advanced features without a paywall, Dam Dollars removes the hassle of manual tracking and helps users make informed spending and saving decisions. Additionally, it emphasizes user-friendly interfaces and actionable insights, aiming to motivate people to establish healthy financial habits. Dam Dollars will act as a one-stop solution for individuals seeking better control of their financial well-being.

Dam Dollars Features

Subscription Tracking:

- Automatically detects and categorizes recurring payments that are linked from financial accounts
- Flags underutilized subscriptions and suggests cost saving opportunities
- Allows users to set reminders for upcoming payments and cancellations

Budget Setting:

- Enables users to set personalized budget limits for different spending categories.
- Provides real-time tracking and notifications for budget adherence.
- Suggests adjustments based on spending patterns and historical data

Financial Data Visualization:

- Financial data such as expenses and income are displayed in the dashboard
- Generates interactive charts and reports to help users analyze their financial health
- Provides insights to optimize spending and saving habits



High-level METHODOLOGY

- Data Aggregation & Storage: Financial transactions are retrieved via Plaid API and stored in a MySQL database, structured for fast retrieval and efficient queries
- Financial Analysis & Categorization:
 Transactions are categorized automatically into spending groups, enabling budgeting and financial insights
- Dashboard & Visualization: A front-end interface (HTML, CSS, JavaScript) shows financial summaries, spending trends, and actionable insights in an intuitive format
- Subscription & Expense Tracking: The system detects recurring transactions, flags them as subscriptions
- Testing & Continuous Integration: Unit and integration tests (Mocha, Jest, Postman) ensure functionality, while GitHub Actions automates CI/CD workflows
- Security & Compliance: All user data is encrypted in transit (HTTPS)



