

Wallee. Personal Finance App

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Section 1: Bank Account Integration (Plaid FLOW)

Layout:

Participants (Left to Right): Wallee Client (Flutter), Plaid Link UI, User's Bank, Plaid API Servers, and Wallee Backend (NestJS).

Key Security Note: A large header across the top states: "User credentials NEVER touch Wallee servers".

Section 4: App Screen Architecture (UI Layout)

Screens & Layouts:

Home: Large "Financial Health Score" gauge at the top, mini-bars for the four axes below, and a list of recent transactions.

Transactions: Filter chips at the top (e.g., "Food", "Bills") followed by a chronological list of transactions with color-coded category chips.

Budget: A header showing the current bi-weekly period and a horizontal bar chart showing "Allocated vs. Spent" for each category.

Goals: Cards for each goal (e.g., "New Laptop") featuring circular progress rings and projected completion dates.

Wallo: A standard chat interface with a Wallo avatar and a summary card at the top showing the "Financial Context" currently being used by the AI.

Section 2: Dynamic Budgeting Pipeline

Layout:

Two Input Columns: One for "Bi-Weekly Paycheck Pipeline" and one for "Mid-Cycle Transaction Pipeline".

Common Output: Both lead to "Write Updated Budget states".

SYSTEM ARCHITECTURE DIAGRAM HERE

SCREENSHOTS OF APP THROUGHOUT POSTER

Section 3: Tiered System Architecture

Layout:

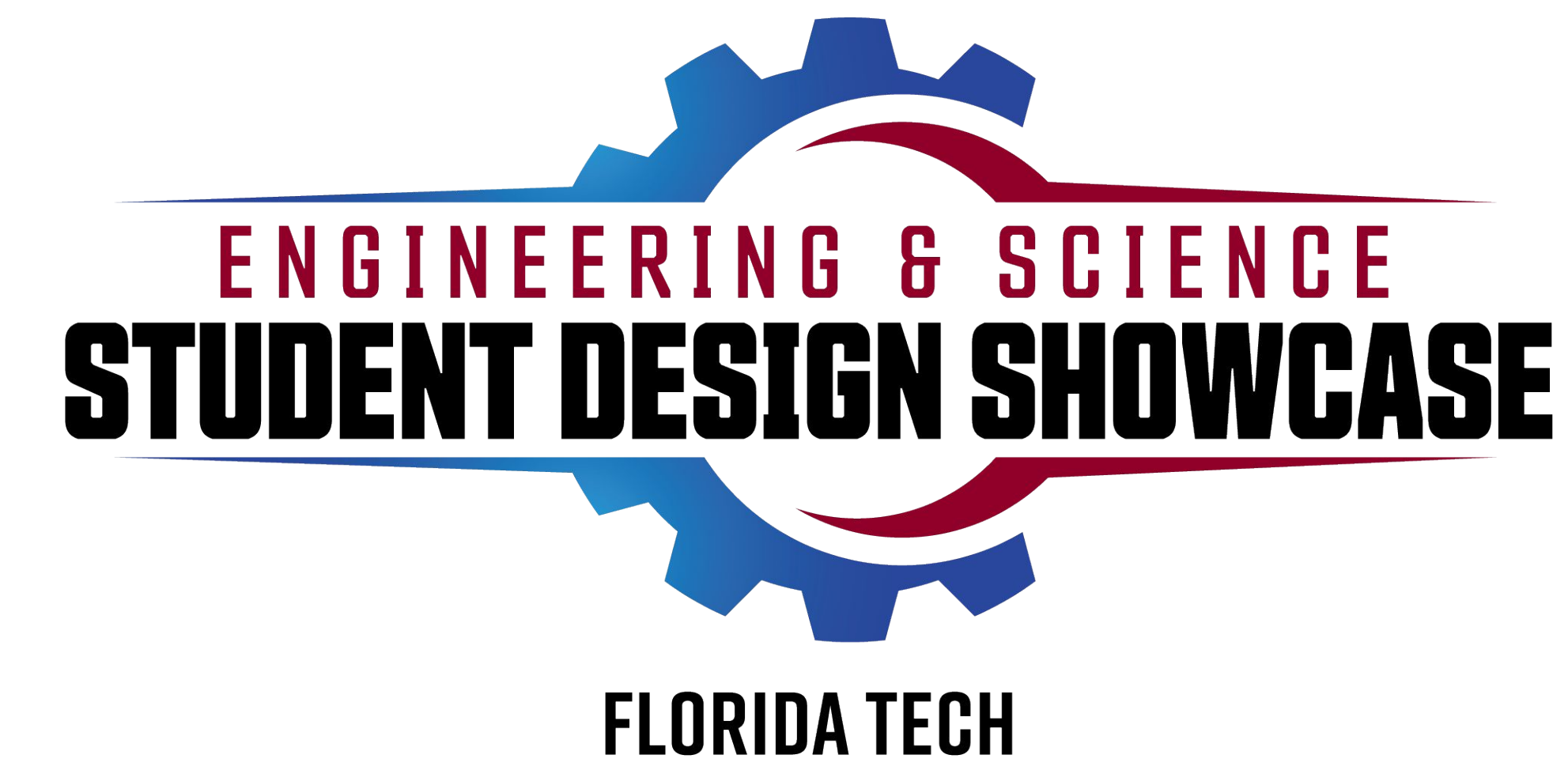
Tier 1: Mobile Client (Flutter): Contains modules for Auth, Data Visualization, Budget Interaction, and Wallo Chat.

Tier 2: Backend API (Node.js/NestJS): Contains controllers for Plaid Gateway, Transactions, Budgets, and Auth.

Tier 3: Analytics Engine (Python/FastAPI): Handles "Heavy Compute" Read/Writes for the budgeting logic.

Tier 4: Data Layer (Supabase/PostgreSQL): Stores Users, Transactions, Budgets, Goals, and Reports.

QR CODE HERE FOR APP HERE



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- Keep all content within the gold lines and blue and crimson bars (other than title block and icons)
- Do not change the size of the poster
- Please keep the text readable. The only font allowed is “Calibri”. It is available on all Microsoft products . Minimum font size is 48 pts.
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- Ensure that all images are at least 300 dpi
- The name of any faculty should be put in as “Dr. [First Name] [Middle Initial]. [Last Name], Dept. Of [name of department], [name of institution]
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