

PERSONAL FINANCE TRACKER

CS-232



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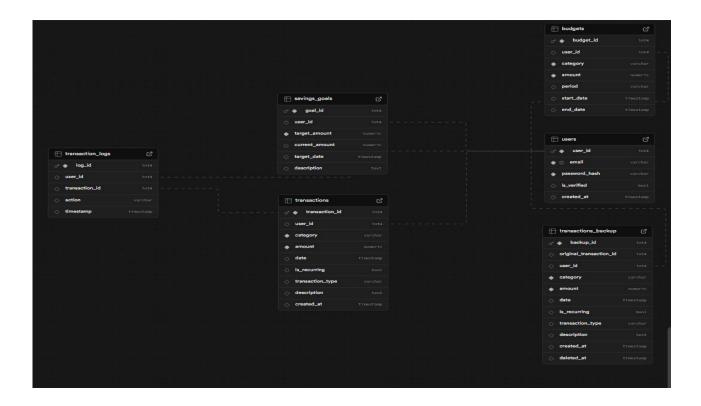
FEATURES

- 1. User Registration & Login Secure login system using hashed passwords.
- 2. Add Transactions Supports income and expenses with date and category.
- 3. Monthly Budgeting Users can set budgets per category.
- 4. Savings Goals Track and manage goals with progress monitoring.
- 5. Dashboard Overview Real-time stats and graphs on income/expenses.
- 6. Financial Reports Exportable reports by week/month/year.
- 7. PDF Report Download Full report including insights and transactions.
- 8. GUI with Mobile App Developed using Flutter.
- 9. Backend in Flask, PostgreSQL on Supabase.

DESCRIPTION

- ➤ The Personal Finance Tracker app allows users to track their income, expenses, budgets, and savings in a centralized and user-friendly way.
- Built with Flutter for mobile and Flask as the backend, it connects to a PostgreSQL database hosted on Supabase.
- ➤ The app aims to simplify personal finance management by providing a realtime dashboard, goal setting, and intelligent reporting.

ER DIAGRAME

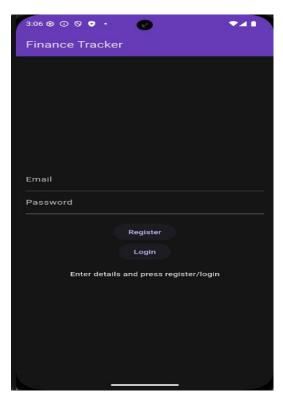


SCHEMA MAPPINGS

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description	F
transactions	
	goy (amount) date)
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(budget-id lussid talegor	y (amount period)
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[Backup id ouginal transaction - id	luse id category mound
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SCREENSHOTS(GUI, TABLES)

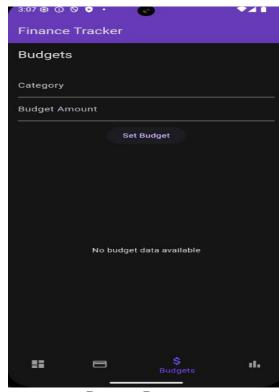
Login Register Page



Dashboards Page



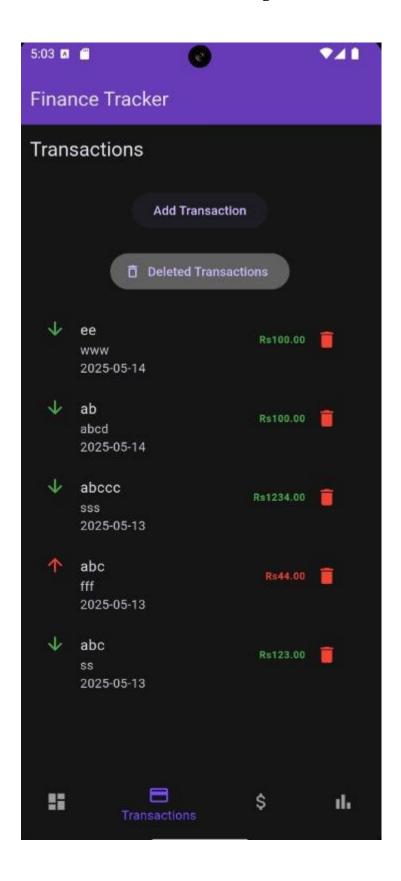
Budgets Page



Reports Page



Transactions Page



```
CREATE TABLE users (
    user_id SERIAL PRIMARY KEY,
    email VARCHAR(255) UNIQUE NOT NULL, password_hash VARCHAR(255) NOT NULL,
    is_verified BOOLEAN DEFAULT FALSE,
    created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP
CREATE TABLE transactions (
    transaction_id SERIAL PRIMARY KEY,
    user id INT REFERENCES users(user_id),
    category VARCHAR(255) NOT NULL,
    amount DECIMAL(10,2) NOT NULL,
    date TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
    is_recurring BOOLEAN DEFAULT FALSE,
    transaction_type VARCHAR(50) CHECK (transaction_type IN ('income', 'expense')
    description TEXT
CREATE TABLE budgets (
    budget_id SERIAL PRIMARY KEY,
    user_id INT REFERENCES users(user_id),
    category VARCHAR(255) NOT NULL,
    amount DECIMAL(10,2) NOT NULL,
    period VARCHAR(50) CHECK (period IN ('monthly', 'yearly')),
    start_date TIMESTAMP,
    end date TIMESTAMP
CREATE TABLE savings_goals (
    goal_id SERIAL PRIMARY KEY,
    user_id INT REFERENCES users(user_id),
    target_amount DECIMAL(10,2) NOT NULL
    current_amount DECIMAL(10,2) DEFAULT 0,
```

```
CREATE TABLE savings_goals (
   goal id SERIAL PRIMARY KEY,
   user_id INT REFERENCES users(user_id),
   target_amount DECIMAL(10,2) NOT NULL,
   current amount DECIMAL(10,2) DEFAULT 0,
   target_date TIMESTAMP,
   description TEXT
CREATE TABLE transaction_logs (
    log id SERIAL PRIMARY KEY,
   user id INT REFERENCES users(user id),
   transaction_id INT REFERENCES transactions(transaction_id),
    action VARCHAR(50) CHECK (action IN ('add', 'edit', 'delete')),
    timestamp TIMESTAMP DEFAULT CURRENT_TIMESTAMP
CREATE TABLE transactions_backup (
   backup_id SERIAL PRIMARY KEY,
   original_transaction_id INT, -- link to original transaction_id
   user_id INT REFERENCES users(user_id),
   category VARCHAR(255) NOT NULL,
   amount DECIMAL(10,2) NOT NULL,
   date TIMESTAMP,
   is recurring BOOLEAN DEFAULT FALSE,
   transaction_type VARCHAR(50) CHECK (transaction_type IN ('income', 'expense')),
   description TEXT,
   created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
    deleted at TIMESTAMP DEFAULT CURRENT TIMESTAMP -- time of deletion
```