



Offline Crypto Portfolio Tracker

User Requirements

Core

- Record transactions (coin, entry price, amount, date, note).
- View transaction history.
- Show portfolio allocation in pie chart.
- Display total invested amount.
- Support multiple portfolios.

Data Management

- Edit and delete transactions.
- Export/Import data (JSON/CSV).
- Store everything locally (SQLite with sqflite).

Usability

- Dark/Light theme.
- Clean, minimal UI.
- Work fully offline (no API fetch).



Sprint Targets

Sprint 0 – Setup

- Create Flutter project.
- Add dependencies (`sqflite`, `path_provider`, `fl_chart`).
- Initialize SQLite DB with `portfolios` and `transactions` tables.
- Insert default portfolio.

Sprint 1 – Transactions

- Add transaction form (symbol, entry price, amount, note).
- Save into DB.
- List all transactions with date order.

Sprint 2 – Portfolio Overview

- Calculate total invested.
- Show per-coin cost basis & invested value.
- Display summary table.

Sprint 3 – Pie Chart

- Aggregate portfolio by coin.
- Show allocation % in pie chart.

- Interactive legend with coin + %.

Sprint 4 – CRUD Improvements

- Edit transaction.
- Delete transaction with confirmation.
- Search/filter history.

Sprint 5 – Data Management

- Export JSON/CSV.
- Import JSON/CSV with validation.
- Backup button in settings.

Sprint 6 – Multi-Portfolio & Theme

- Switch between portfolios.
- Create/rename/delete portfolio.
- Add dark/light theme toggle.

Sprint 7 – Polish & Release

- Unit tests for calculations.
- Performance optimization.
- README with screenshots.
- Prepare for distribution (APK/IPA).



UI/UX Design

1. Home / Dashboard

- **Header:** Current portfolio name.
- **Summary card:** Total invested, number of coins.
- **Pie chart:** Allocation % with legend.
- **Quick action buttons:** Add Transaction | Export | Switch Portfolio.

2. Transactions List

- **List view** of all transactions:
- Symbol | Amount | Entry Price.
- Small note below (optional).
- Date on right side.
- **Floating button:** Add new transaction.
- **Filter/Search bar** on top.

3. Add/Edit Transaction

- Form fields:
- Symbol (dropdown or text input).
- Entry Price.
- Amount.

- Date picker.
- Note (optional).
- **Save / Cancel buttons.**

4. Portfolio Switcher

- List of portfolios.
- Options: Create new, Rename, Delete.

5. Settings

- Export/Import data.
- Toggle Dark/Light mode.
- Show DB path (for debugging).

Visual Style

- **Minimalist, card-based design.**
- **Pie chart** with distinct, reusable coin colors.
- **Typography:** Clean, medium weight for coin symbols.
- **Dark/Light toggle** always accessible from settings.
- **Spacing:** Generous padding to keep UI uncluttered.