

# Flutter Stock Management App

CPAD Assignment 1  
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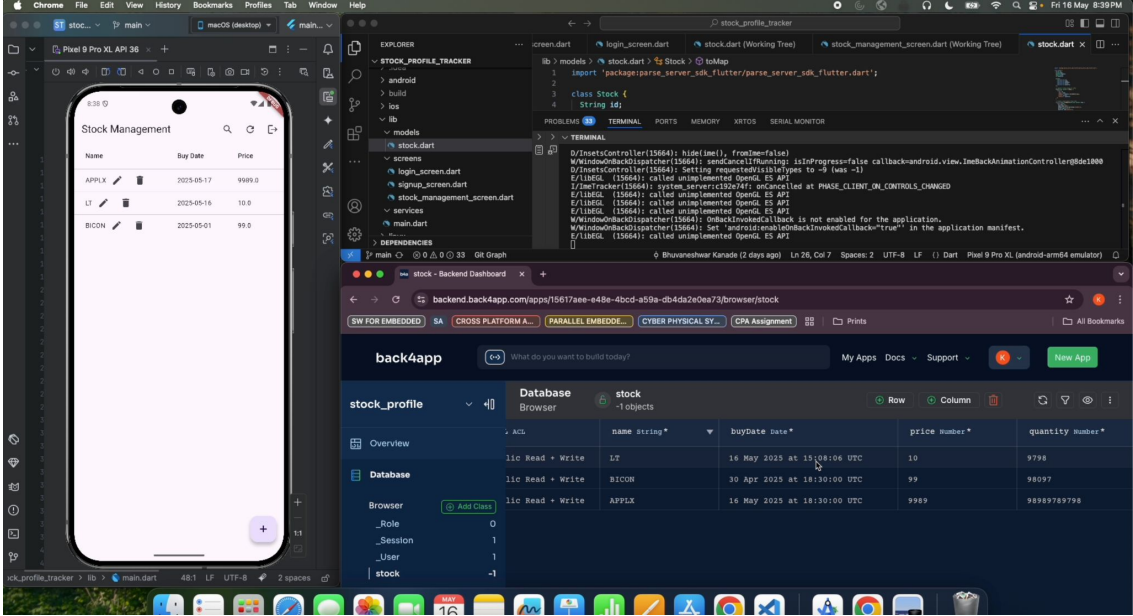
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# Stock Profile Tracker:

- Users can sign up, log in, and manage stock entries.
- Supports CRUD operations: add, view, edit, delete stocks.
- Tracks stock name, buy date, price, quantity.
- Data stored and synced via Back4App (Parse Server).
- Access portfolio securely from phone device.

## App Structure :

- **models :** `stock.dart`, defines the Stock object and its CRUD operations with Back4App.
- **Screens :**
  - `login_screen.dart`: user login and password reset.
  - `signup_screen.dart`: user registration.
  - `stock_management_screen.dart`: Main screen for viewing, adding, editing, deleting, and querying stocks.
- **Main.dart :** Entry point of the app. Initializes Back4App and sets up the root widget.



## Back4App Integration:

Uses Back4App with Parse Server SDK for Flutter as backend.

- **Initialization:** In `main.dart` using `Parse().initialize()` with `appld`, `clientKey`, `serverURL`.
- **Data Storage:** Uses `ParseObject` API to perform CRUD on stock data.
- **User Management:** Uses `ParseUser` API; sessions managed automatically.

## User Authentication :

- **Sign Up:** Register with username, email, password using `ParseUser.signUp()`.
- **Login:** Log in with credentials via `ParseUser.login()`, then navigate to stock screen.
- **Session:** Auto-managed by SDK; check session on start, logout via `ParseUser.logout()`.
- **Reset:** Request reset email using `ParseUser.requestPasswordReset(email)`.

[Git Link](#)

[Video Link](#)