📱 Internship Assignment – Addlens Technologies Pvt. Ltd.

Duration

- **Submission Deadline:** 3 days from the date of receiving this assignment.

Objective

You are required to build a **mini mobile application** using one of the following frameworks (depending on your skillset):

- **React Native (JavaScript/TypeScript)**
- **Flutter (Dart)**
- **Kotlin (Android)**
- **Swift (iOS)**

This assignment will help us evaluate your **coding ability, problem-solving skills, and development practices**.

📁 Task Description

App Requirements

1. **User Authentication (Mock)**
    - Create a **Login screen** with Email & Password fields.
    - Add **basic validation** (e.g., non-empty, valid email format).
    - No real backend required – you can hardcode a demo user (e.g., `test@test.com` / `123456`).
2. **Product Listing (API Integration)**
    - Fetch and display products from the public API:
      ☞ https://fakestoreapi.com/products
    - Display product **image, title, and price** in a clean grid or list.
    - Handle **loading** and **error states**.
3. **Cart Functionality (Local State Management)**
    - Users should be able to **add/remove products** to/from a cart.
    - Show a **cart count badge** on the top (header or app bar).
4. **Bonus Challenge (Optional)**
    - Add a **wishlist/favorites** feature.
    - Persist wishlist items using **local storage** (AsyncStorage, SharedPreferences, Room, CoreData, etc. based on framework).

📊 Evaluation Criteria

- **UI/UX** → Clean, responsive, user-friendly design.
- **Code Quality** → Structured, readable, and maintainable code.
- **API Handling** → Proper error handling, loading indicators.
- **State Management** → Efficient handling of cart and favorites.
- **Persistence** → Local data storage implementation (if bonus is attempted).
- **Documentation** → Clear README with setup instructions.

🎁 Deliverables

1. **Source Code** → Upload to GitHub (public or private with access) OR share via Google Drive/Zip.
2. **Demo Video/GIF** → Short screen recording showing the app in action.
3. **README File** → Include:
   - Framework used (React Native / Flutter / Kotlin / Swift).
   - Steps to run the project.
   - Any assumptions made.

🔧 Framework-Specific Notes

- **React Native:** Use FlatList, AsyncStorage, React Hooks.
- **Flutter:** Use ListView/GridView, Provider/Bloc (if known), SharedPreferences.
- **Kotlin (Android):** Use RecyclerView, ViewModel + LiveData, Room/SharedPreferences.
- **Swift (iOS):** Use SwiftUI/UIKit, StateObject/Combine, CoreData/UserDefaults.

⏱ Deadline

All submissions must be completed **within 3 days** of assignment receipt. Late submissions will not be considered.

⚡ **Tip:** Keep the app simple but structured – focus on **clean code and functionality** over fancy design.