



Assignment 2: State Management, API Integration & User Interactions

Objective:

Introduce API integration for authentication and product management, profile editing, and handling user interactions with native device features (camera, location, storage). Implement state management and enhance product listings with search, sorting, and filtering.

Requirements:

- User Authentication (API Integration):

Implement authentication using an API, including signup, login, otp and logout.

Save user session and implement refresh token.

- User Profile:

Add tab navigation with a new tab for profile.

Add a screen where user can edit their profile details.

Users can edit their name and change photo (Camera and Library).

- Product Management:

Implement a screen to add a new product for sale.

The new product should have a name, description, price, images, location (choose location from map with search).

Implement form validation and integrate API.

- Product Listings (API Integration):

Fetch products from the API with pagination.

Handle pull down to refresh to reload the list of products.

Handle searching products by name, and sorting by price.

• Edit/Delete Product:

Add “edit” button to the product details when the logged in user is the product owner.

Implement a screen to edit product details (name, description, price, images, location).

Implement form validation and integrate API.

Add “delete” button to the product details when the logged in user is the product owner.



- **Product Details:**

Integrate API to fetch product details by Id. Remove unnecessary params.

Including an image swiper in the details screen.

Long pressing on an image should allow to save it to their device.

Add Map view to product details screen to display its location.

Add owner details with ability to send email to the product owner.

Notes:

- Make sure to handle loading and error states for API calls.