

Here's a structured task assignment for the product development, with deadlines and sub-tasks to be completed by **within 2 days from receipt of this email** . This is meant for an Androidapp using **Android Studio** and **Core Java**:

Task Assignment

Landing Page

1. Fetch Product Categories via HTTP Request:

- **Task:** Implement an HTTP request to fetch product categories from <https://dummyjson.com/products/categories>.
- **Sub-task:**
 - Set up networking with an HTTP library (e.g., OkHttp, Retrofit).
 - Parse the response and handle data errors.

2. Create Horizontally Scrollable Categories Section:

- **Task:** Design and display a horizontally scrollable section for listing categories.
- **Sub-task:**
 - Use `RecyclerView` with horizontal scrolling.
 - Populate it with data received from the HTTP request.

3. Display Product Cards Below the Category Section:

- **Task:** Show cards for 20 products (image, name, rating, discount, price) in 2 cards per row.
- **Sub-task:**
 - Make another HTTP request to <https://dummyjson.com/products?limit=20>.
 - Design the layout using a `RecyclerView` with `GridLayoutManager` (2 items per row).
 - Ensure proper spacing between cards.

Search Functionality

4. Implement Search Box in Navigation Bar:

- **Task:** Add a search box on the navigation bar for searching products by name.
- **Sub-task:**
 - Set up an `EditText` for user input.
 - Implement the `TextWatcher` to detect user input.

5. Filter Products Based on Search Term:

- **Task:** Filter relevant products when the search term is 3 or more characters long.
 - **Sub-task:**
 - Make an HTTP request to `https://dummyjson.com/products?limit=200` for fetching all product data.
 - Implement a filtering mechanism based on product name using the entered search term.
 - Display relevant results in a `RecyclerView` and ensure UI updates dynamically.
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Navigation and Detail Handling

6. Navigate to Product Description Screen:

- **Task:** On product click (from landing screen), navigate to the description screen.
- **Sub-task:**
 - Pass product details to the product description screen using `Intent`.
 - Design a product detail screen with the relevant information.

7. Filter Products Based on Category:

- **Task:** If the user clicks a category, navigate to a search result screen showing products in that category.
 - **Sub-task:**
 - Implement filtering based on category.
 - Display the filtered products (name, price, discount, image) in a `RecyclerView`.
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Product Description Screen

8. Fetch Product Description by Product ID:

- **Task:** Fetch product description via `https://dummyjson.com/products/{product_id}`.
- **Sub-task:**
 - Use dynamic endpoints by replacing `{product_id}` with the actual product's ID.
 - Parse and display the fetched product details.

9. Display Product Details on Description Screen:

- **Task:** Show product image, name, description, price, rating, brand, shipping info, warranty, and stock availability.
- **Sub-task:**
 - Design a proper layout with all required fields.
 - Use `TextView`, `ImageView`, and other views to render content attractively.

10. Display Customer Reviews:

- **Task:** Show a section on the description screen for customer reviews.
 - **Sub-task:**
 - Fetch and display reviews from the product API.
 - Implement this section under the product details.
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Simmers for Fallback Content

11. Implement Simmers for Fallback Content:

- **Task:** Display shimmer animations while data is being fetched.
 - **Sub-task:**
 - Implement a loading state using a placeholder animation until the data is available.
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Note:

- **UI Design:** Ensure all screens are designed to keep the overall app visually appealing.
- **Tech Stack:** Complete all tasks using **Android Studio** and **Core Java**. No additional frameworks or libraries should be used outside of Android's default ecosystem.

This detailed task breakdown ensures that all requirements are covered for a well-structured Android application. Let me know if you'd like more assistance in managing this project!

For any query please contact at 8527366173 (Mr. Ved Prakash)