

# React Native Interview Task

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## Task Overview

Welcome to the React Native development challenge! This task is designed to evaluate your skills in building a functional, performant React Native application using Expo, the Ignite boilerplate, and MobX-State-Tree for state management. The app you will develop will involve interacting with external APIs, managing navigation, and implementing infinite scrolling.

### Project Title: User Explorer

#### Objective:

Develop a mobile application that fetches and displays a list of users from the DummyJson API. The app should allow users to view a list of posts by each user with infinite scrolling to load more content as needed.

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## Technology Stack

#### Frontend:

- **Framework:** React Native with Expo
- **Boilerplate:** Ignite CLI ( [🔥 Ignite - the battle-tested React Native boilerplate | Open Source at Infinite Red](#) )
- **Language:** JavaScript or TypeScript (preferred)
- **State Management:** MobX-State-Tree (included with Ignite boilerplate)
- **Navigation:** React Navigation
- **Data Fetching:** Axios or Fetch API

#### Development Tools:

- **Code Editor:** Visual Studio Code (recommended)
  - **Version Control:** Git (submit via GitHub, GitLab, or Bitbucket)
  - **Build Tools:** Expo CLI
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## Task Requirements

### 1. User List Screen

- **Objective:** Display a list of users fetched from the DummyJson API.
- **Details:**
  - Fetch the list of users from `https://dummyjson.com/users`.
  - Display each user's name and a brief detail (e.g., email, company) in a card or list item.
  - Optimize the list for rendering performance using FlatList, ensuring smooth scrolling and minimal re-renders.
  - Implement infinite scrolling to load more users as the user scrolls down the list.

- Include a loading indicator for fetching more users during scrolling.

## 2. User Posts Screen

- **Objective:** Display the list of posts for a selected user.
  - **Details:**
    - When a user is clicked on the User List Screen, navigate to a new screen that shows the list of posts by that user.
    - Fetch the posts from `https://dummyjson.com/users/{userId}/posts`.
    - Display the posts in a scrollable view, showing the title and body of each post.
    - Implement infinite scrolling to load more posts as the user scrolls down the list.
    - Include a loading indicator for fetching more posts during scrolling.
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## Deliverables

1. **Source Code:** Provide the complete source code for the application, organized and well-documented in a github repo (Ignore gradle or large files)
  2. **Minimum APK:** Generate a minimum APK file for Android that we can install and test on a physical device.
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## Estimated Development Timeline

### Day 1: Setup and Initial Development

- Set up the project using Expo and Ignite CLI.
- Implement the User List Screen with data fetching and rendering optimization.
- Implement infinite scrolling for the User List Screen.

### Day 2: User Posts Screen

- Implement navigation to the User Posts Screen.
- Fetch and display the user's posts.
- Implement infinite scrolling for the User Posts Screen.

### Day 3: UI/UX Refinement and Testing

- Refine the UI/UX for a consistent and user-friendly experience.
  - Perform testing to ensure all features work as expected.
  - Debug and fix any issues that arise during testing.
  - Generate the APK and prepare documentation.
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## Evaluation Criteria

- **Code Quality:** Clean, maintainable code with proper use of React Native best practices.
  - **Performance:** Efficient data handling and rendering, particularly for lists with infinite scrolling.
  - **Functionality:** The app meets the requirements and handles navigation, data fetching, and infinite scrolling effectively.
  - **Completeness:** The task is completed within the given timeframe, and all deliverables are submitted.
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## Submission Instructions

- **Deadline:** 5 days from receiving this file.
- **Submission:** Please submit your APK, source code, and documentation via Github.
- **Contact:** If you have any questions or need clarification, feel free to reach out to [work@lifology.com](mailto:work@lifology.com)

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**We look forward to reviewing your submission. Good luck!**