Mobile App Developer Technical Assignment

Instructions:

To ensure a smooth and productive technical assignment experience, please follow the instructions below before starting:

1. Prepare the necessary tools for developing the application and ensure they are properly installed, such as:
   - **For Android Developers:** Use Android Studio Giraffe or Narwhal.
   - **For iOS Developers:** Use Xcode (minimum version 1.64 or higher).
   - Postman for API testing.
2. Set up your own development environment based on your chosen platform.
3. Ensure a stable internet connection for the assignment and submission.
4. Allocate a dedicated and quiet time block to focus on completing the assignment without distractions.

Good luck!

We're excited to see your solution and hope this marks the beginning of something great with our team 😊

Objective:

The objective of this technical assignment is to assess your ability to design and implement an efficient, reusable, and scalable solution that fulfills real-world user requirements. This evaluation aims to assess your skills in mobile app development, UI/UX design, API integration, code reusability, and performance optimization.

Key Deliverables:

The following are the key expected outputs of this technical assignment:
- **Object-Oriented Program (OOP):** The system is implemented using OOP principles.
- **Clean Architecture:** The system is designed following clean architecture principles, ensuring clear separation of concerns between presentation, domain, and data layers.
- **Responsive User Interface:** The system is responsive and adapts seamlessly to various screen sizes, ensuring an optimal user experience.
- **Application Performance:** The system is optimized to deliver smooth and efficient performance during user interactions.
- **Security:** The system is developed with basic security best practices to prevent unauthorized changes or tampering, ensuring reliable and safe operations.
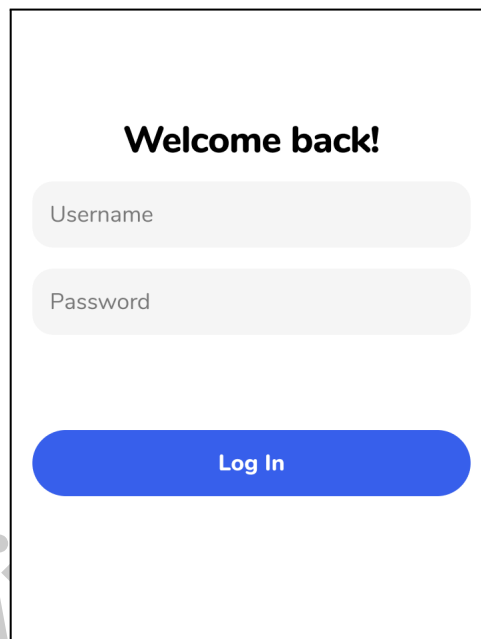
Submission Guidelines:

Please submit your completed assignment **within 3 days of the given deadline,** via the **Google Form** by uploading a **.zip file** of your full source code folder named as: **FullName_MobileAppDeveloper.zip**
(for example, JohnDoe_MobileAppDeveloper.zip)

User Stories:

Create a simple application that meets the requirements described in the following user stories:

1. As a user, I want to log in using a username and password.
    -   Use the following API for login authentication:
        POST https://skill-test2.free.beeceptor.com/api/login
    -   Request body example :
        {"username": "user@gmail.com", "password": "12345"}
    -   If the API response returns code "00", the login is successful.
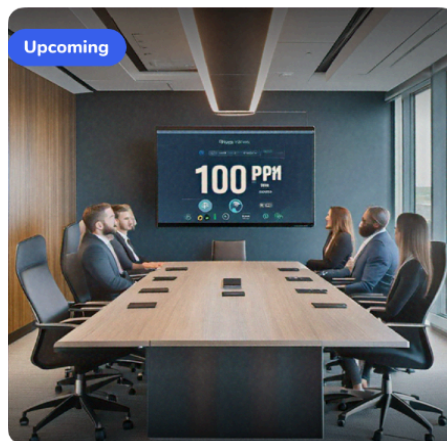   -   Any other response code indicates a failed login.

Welcome back!

Username

Password

Log In

2. As a user, I want to view a list of events after logging in with the following details:
    -   The page must contain two sticky buttons, "Logout" and "New Event"
    -   If no events are available, display an empty state message.
    -   If events are available, the page must display the closest upcoming event at the top, followed by all the latest events.
    -   The closest upcoming event must display the following information:
        a. Thumbnail image
        b. Event name (for example, Tech Conference 2025)
        c. Start date and time (for example, Oct 15, 2025, 1:00 PM)

  d. End data and time (for example, Oct 16, 2025, 5:00 PM)
  e. Organizer (for example, Technovate, Inc.)
  f. Location (for example, Conference Room A)
  g. Description (for example, Join us at the Tech Conference hosted by Technovate, Inc., where innovation..)
- All other events in the list must include the following information:
  a. Event name (for example, Web Development)
  b. Start date (for example, Apr 20, 2026, 1:00 PM)
  c. Organizer (for example, Innovation Hub)
  d. Location (for example, Room 202)

Event Hub

Upcoming

Tech Conference 2025

Oct 15, 2025, 1:00 PM - Oct 16, 2025, 5:00 PM
Technovate, Inc. • Conference Room A

Join us at the Tech Conference hosted by Technovate, Inc., where innovation meets inspiration! Discover the latest trends in technology, network with industry leaders, and participate in engaging workshops. Don't miss this opportunity to elevate your tech knowledge!
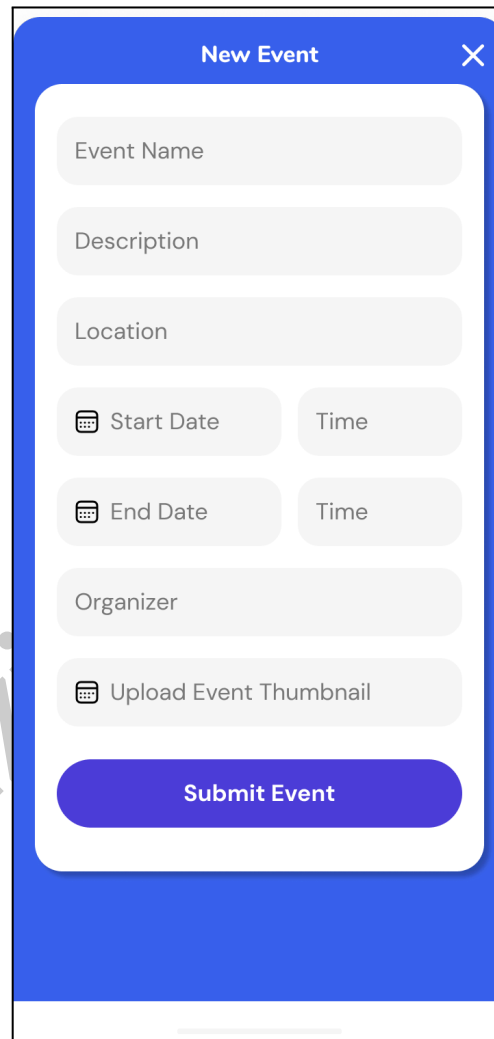
Other events

Web Development Workshop	Apr 20, 2026, 1:00 PM
Innovation Hub	Room 202

Logout   **+ New Event**

3. As a user, I want to create a new event with the following details:
   - Text input for event name, description, location, and organizer.
   - A date picker to select the start date and end date.
   - An image upload feature that allows users to select an image from their device and display it on the screen.
   - All event data must be stored using the local database, such as Core Data for iOS or Room/SQLite for Android, depending on the platform.

4. As a user, I want to sign out from the Home Page and return to the Login page.
   - When I click the "Logout" button on the Home Page, a confirmation popup must appear.
   - The popup must contain two buttons: "Logout" and "Cancel".
   - If I click "Cancel", the popup must close and I must remain on the Home Page.
   - If I click "Logout", the session must be terminated and I must be redirected to the Login page.