

IV INNOVATIONS PRIVATE LIMITED (Kundli – Sonipat)

Task Description: Develop an application with comprehensive user management and BMI tracking features, including Google login, account creation, user detail input, BMI calculations, graph plotting, and multi-user support.

Assignment Details

Create an app with the following functionalities:

1. **Login Screen:**
 - A clean login screen that allows users to sign in using Google.
2. **User Account Management:**
 - Account creation (email/password registration).
 - Password reset functionality.
3. **User Details Form:**
 - Collect basic user information, such as:
 - **Weight** (KGS/LBS)
 - **Height** (CM/Inches)
 - **Gender** (Male/Female/Other)
 - Validate the input data (e.g., check date formats and ensure numeric values for weight/height).
4. **BMI Calculation:**
 - Implement BMI calculation using the formula:
 - $BMI = \text{weight (kg)} / (\text{height (m)} * \text{height (m)})$, with conversions for lbs/inches.
 - Display the BMI category (e.g., underweight, normal weight, overweight, obese) based on the calculated value.
5. **User Settings:**
 - Include a section where users can update their height and weight at any time.
 - Ensure that these changes update the BMI and associated data accordingly.
6. **Weight History Graph:**
 - Create a graph showing the user's weight history over the past week.

- Plot data points and ensure the graph is easy to read and understand.

7. **Multi-User Support:**

- Implement functionality to add and manage multiple user profiles.
 - Allow switching between users and display BMI data for each profile individually.
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Requirements:

Technology Stack:

- Developer's choice
- Firebase Authentication or an alternative backend service for login and account management
- CoreData or another local storage method for user data

Development Environment:

- Android / Xcode (latest version)
- Target Android / iOS

Submission Requirements:

- Functionality 1-4 is mandatory, Doing 5-7 will be an added advantage.
- **Video:** Prepare a 2-3 minute video demonstrating the app's features.
- **Supporting Documents:** Include any additional documents or files needed.
- A brief documentation on:
 - App setup, libraries used, and any special configurations.
 - Instructions to build and run the app.
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Deadline: 27/01/2026, 11:59 PM

Submission URL: [\[Click here\]](#)

Evaluation Criteria:

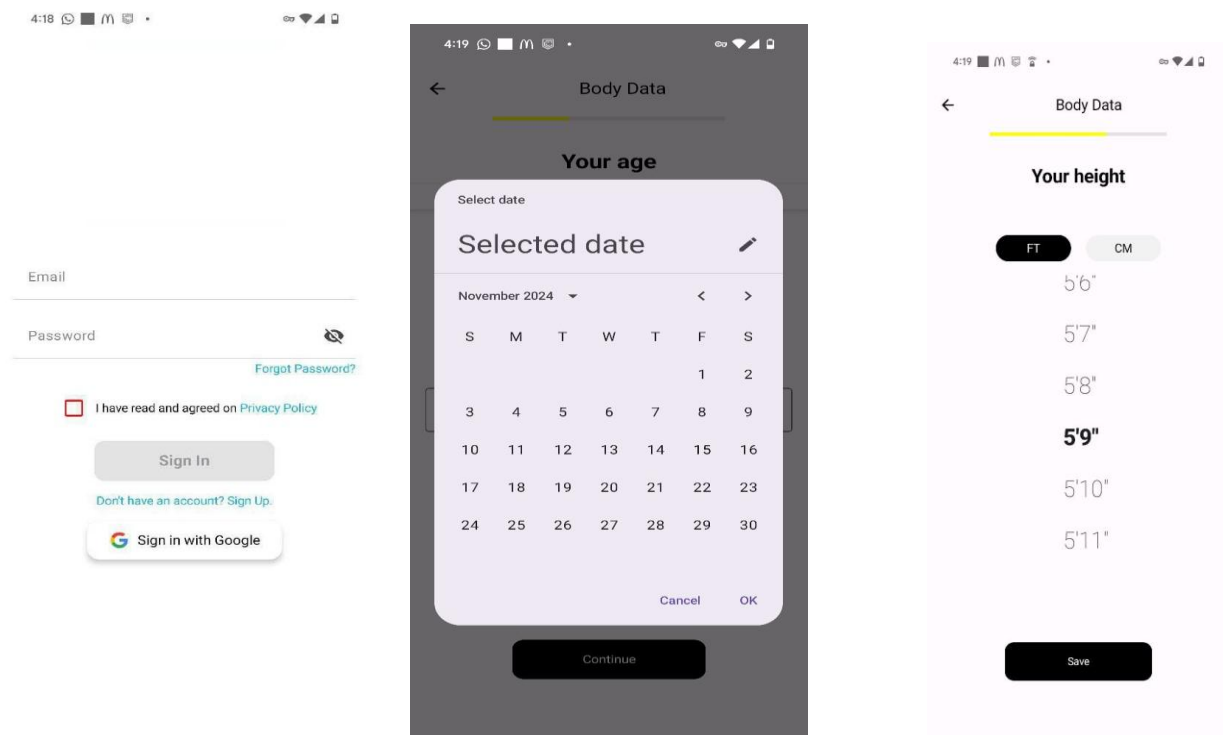
- Code quality and adherence to best practices.
- User experience and interface design.
- Proper implementation of user input validation.

- Functionality of BMI calculation, display, and graph plotting.
- Multi-user management capability.
- Documentation clarity.
- Graph readability and ease of use.

Bonus:

- Implement user authentication state persistence.
- Customize charts for better visualization.
- Comprehensive error handling.
- Early submission Before 26 Oct

Some Screenshots FYR



Note: If you have any questions or doubts, you can assume and build it. If shortlisted, you will be asked to explain your work.

Good luck, and happy coding!