

Android Login App with Multiple Dialogs and Conditional Navigation

Project Overview: Create a login app where the user can enter a username and password, validate the input, and navigate through various dialogs based on different conditions. Implement cascading dialogs that appear sequentially upon specific actions. The app should include ViewBinding for view interactions and multiple dialog types (AlertDialog, Custom Dialog, and BottomSheetDialog). Additionally, handle edge cases for user authentication and provide navigation to different screens based on user input.

Project Details:

1. Login Screen:

- Implement a login screen with **username** and **password** fields.
- On successful login, navigate to the home screen.
- If credentials are incorrect, show an **AlertDialog** with a "Invalid Credentials" message.
- If the login attempt exceeds three failed attempts, show a **Custom Dialog** prompting the user to reset their password.

2. Dialogs Implementation:

- **AlertDialog:**
 - If the user enters incorrect credentials, show an **AlertDialog** with a message "Invalid Credentials" and a retry option.
 - Add a "Cancel" button in the AlertDialog to allow the user to exit the app.
- **Custom Dialog:**
 - If the login fails three times, open a **Custom Dialog** asking the user if they want to reset their password or try logging in again.
 - If the user clicks "Reset Password", show another **Custom Dialog** with input fields for a new password (two fields: new password and confirm password). On confirmation, display a message confirming the password change.
- **BottomSheetDialog:**
 - After a successful login, show a **BottomSheetDialog** containing a list of terms and conditions or privacy policy with a "Accept" button. If the user taps on "Accept", navigate to the home screen.
 - If the user taps "Decline", show a **Toast** message saying "You must accept the terms to proceed".

3. Home Screen:

- After successful login and terms acceptance, navigate to a new **Home Activity**.
- The Home Activity should contain a **TextView** displaying "Welcome Developer" and an **Exit Button**.
- On pressing the **Exit Button**, ask the user via a dialog if they are sure they want to exit.

Additional Requirements:

- Implement **ViewBinding** to handle the interaction between the views and kotlin code.
- Implement a counter to track failed login attempts and reset the counter upon successful login.
- Use proper error handling in dialogs (e.g., dismissing the dialog when necessary, handling user inputs gracefully).
- Ensure smooth transitions between activities and dialogs.

Expected Outcome: A working Android app where users can log in, interact with multiple cascading dialogs, reset their passwords, accept terms, and navigate through different screens based on input validation and conditions.

Project Duration: 1 Hour