

Android Login & Activity Navigation Assignment

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Purpose of the Assignment

The purpose of this assignment is to enhance understanding of Android UI design, activity navigation, and intent-based screen transitions. Students build upon an existing Android login project and extend it with authentication logic, additional screens, and navigation flows.

Base Project

Starter project GitHub repository:

<https://github.com/Azzzhar7/android-login-app>

The base project contains a simple login UI implemented using Java and XML in Android Studio.

Completed & Extended Features

1. Hard-coded login authentication (username & password)
2. Registration Activity for new users
3. Forgot Password Activity
4. Reset Password Activity
5. Landing (Home) Screen after successful login
6. Intent-based navigation between activities
7. Clickable Register and Forgot Password links
8. Input validation with error messages
9. Toast messages for success and failure feedback

Technical Implementation Overview

Login Authentication:

Hard-coded credentials are checked inside LoginActivity. On successful login, the user is redirected to HomeActivity using Intent.

```
if(username.equals("admin") && password.equals("1234")){
    Intent intent = new Intent(LoginActivity.this, HomeActivity.class);
    startActivity(intent);
}
```

Navigation Using Intents:

Each screen is implemented as a separate Activity. Navigation is handled using explicit intents triggered by buttons or text clicks.

```
startActivity(new Intent(LoginActivity.this, RegisterActivity.class));
```

New Activities Added:

RegisterActivity – allows user registration

ForgotPasswordActivity – handles password recovery

ResetPasswordActivity – updates password

HomeActivity – displays welcome message after login

Screenshots & Submission Requirements

The following screenshots must be attached in the final submission:

- Android Studio project structure and code
- Emulator or physical device output
- GitHub repository showing pushed project

GitHub Submission

The completed project is pushed to the student's own GitHub repository. A README file is included describing implemented features and navigation flow.

README Contents:

- Project overview
- Implemented features
- Screen navigation flow
- How to run the project