

Fragmentation of Activities in Android

Task 1: Basic Fragment Implementation

- a. Create a new Android project named "FragmentApp" in Android Studio.
- b. Implement a layout for the main activity with a container view to host the fragments.
- c. Create two fragments: FragmentA and FragmentB.
- d. Implement the necessary code to display FragmentA when the activity starts.
- e. Implement a button in FragmentA that replaces FragmentA with FragmentB when clicked.
- f. Build and run the application on an Android emulator or physical device to verify the fragment transitions.

Task 2: Fragment Communication

- a. Modify FragmentA and FragmentB to include EditText fields and a button.
- b. Implement the necessary code to allow FragmentA to send data to FragmentB when the button is clicked.
- c. Display the data received from FragmentA in FragmentB.
- d. Build and run the application on an Android emulator or physical device to verify the communication between the fragments.

Task 3: Fragment Backstack

- a. Implement the necessary code to add the fragments to the backstack when transitioning between them.
- b. Allow the user to navigate back to the previous fragment by pressing the device's back button.
- c. Test the backstack functionality by navigating back and forth between FragmentA and FragmentB.
- d. Build and run the application on an Android emulator or physical device to verify the backstack behavior.

Note: Include the code for each task in your assignment submission document, along with any explanations or observations made.

Remember to structure your assignment neatly and provide complete and accurate information.