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IMAD5112

POE PART 2

CHANGE LOG

1. **Layout Changes**:

   - **EditText Elements**:

     - Added **android:autofillHints=""** to each **EditText** element to indicate that autofill should not be used for these fields.

     - Set **android:minHeight="48dp"** to ensure a minimum height for the **EditText** elements.

   - **Button Elements**:

     - Replaced hardcoded button texts ("ADD", "SUBTRACT", etc.) with string resources (**@string/add**, **@string/subtract**, etc.) to follow best practices.

   - **Added New Buttons**:

     - Added two new buttons for the square root (**@string/sqrt**) and power (**@string/power**) operations.

   - **Button Constraints**:

     - Positioned the "Power" button to the right of the "Divide" button and below the result **EditText**.

2. **Resource Strings**:

   - Created string resources for all button texts to allow for easy localization and consistency across the app.

3. **Code Changes**:

   - **Square Root Calculation**:

     - Modified the square root calculation to handle negative numbers by using **sqrt(num1.absoluteValue)**.

   - **Button Click Listeners**:

     - Added click listeners for the new "Square Root" and "Power" buttons to perform the respective calculations.

4. **Error Handling**:

   - Added basic error handling for division by zero. Displays an error message when the second number is 0.

5. **Accessibility and Usability**:

   - Added accessibility labels where necessary to improve usability for users with accessibility needs.

6. **Layout Editor Fixes**:

   - Resolved unexpected text and end of file errors by correcting the XML structure and removing any extraneous characters.

7. **Final Verification**:

   - Ensured that the modified XML file and Kotlin code are well-formed and free from any syntax or logical errors.

8. **Build and Test**:

   - Built and tested the app to ensure that it runs without crashing and that all functionalities work as expected.

NB: I still have not received feedback for part 1