

How Layouts, Views & Intents are Used in the App

Layouts:

In my EMI Calculator app, I define layouts using XML files in the res/layout directory. These XML layouts describe the structure and appearance of my app's user interface. I use XML layouts for both the MainActivity and ResultsPage activities.

I also make use of ConstraintLayout to create flexible and responsive layouts. This allows me to define constraints between views, ensuring proper positioning and alignment.

In addition, I use LinearLayout to arrange views in a linear (vertical or horizontal) fashion. For example, in my ResultsPage, I've used a LinearLayout to neatly display a single TextView beneath the Toolbar. Using Linear Layouts has helped me to streamline the process of having the padding and margins of the views aligned.

Intents:

I use explicit intents in my app to facilitate navigation between different activities, such as the MainActivity and ResultsPage. With explicit intents, I specify the target component (activity) by class name.

Furthermore, I employ intents for passing data between activities. For instance, I pass the emiResult value from the MainActivity to the ResultsPage using an intent extra. This allows me to share important data between different parts of my app seamlessly.

Views:

TextViews are essential components in my app's user interface. They serve the purpose of displaying text content to the user. Within my app, I rely on TextViews to present the app's title, descriptions, and the calculated EMI result.

To collect user input, I make use of EditText views. These views allow users to input values such as the principal amount, interest rate, and amortization period in the MainActivity.

Buttons are integral for triggering actions in response to user input. In my app, the "Calculate" button, for example, is used to perform the EMI calculation when pressed by the user.

Additionally, I customize the Toolbar view in my app. The Toolbar is commonly used for displaying the app's title and action items. I've tailored the Toolbar to include a return button (navigation icon) that enhances navigation between different activities within my app.

Please see below for screenshots of the app.

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Monthly EMI Calculator

Calculate your monthly EMI based on principal amount, interest rate, and amortization period.

Mortgage Principal Amount

Mortgage Principal Amount

Yearly Interest Rate

Yearly Interest Rate

Amortization Period

Amortization Period

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Monthly EMI Calculator

Calculate your monthly EMI based on principal amount, interest rate, and amortization period.

Mortgage Principal Amount

250000

Yearly Interest Rate

7.35

Amortization Period

25

CALCULATE

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