WEA150022

Tutorial 2

Q1

In your opinion, which layout is more…

a) Flexible?

b) Easy (shorter development time)?

c) Adaptive / Dynamic?

Provide ONE(1) justification for each of your answer in (a) to (c) above.

1. Constraint layout: Can do what other layouts can do and more.
2. Linear layout: Simple to use, dependent on the intended UI.
3. AdapterView: Can render new Views according to fetched data.

Q2

Choose any THREE (3) layout discussed in this slide, provide TWO (2) advantages and TWO (2) disadvantages for each of the layout.

|  |  |  |
| --- | --- | --- |
| ViewGroup | Advantage | Disadvantage |
| LinearLayout | * Simple to use * Good for static data list view | * Hard to use for complex layout * Require a lot of nesting, reducing performance |
| RelativeLayout | * Can align view relative to other view * Useful as parent layout | * Require extra effort to align each view * Needs to give unique id for each view |
| ConstraintLayout | * Can do what other layouts can do * Minimize the use of nesting, better performance | * Has a learning curve * Might be more work to use on simple straightforward app |

Q3

Debate over the use of nested layout in your mobile app UI.

Nested layout can be more organized, eg. grouping components together under ViewGroup.

On the other hand, nested layout requires more time to render, impacting the performance of the app.