Android Resources

Group 5

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Chapter objective

Learn about different resources, how to use them in an Android application

Basic concepts:

- Resources are things embedded (bundled) into the app
- Stored in res/ directory
- Accessible through code: R. <category>. <resourceName>

I. Layouts

Definition:

- ViewGroup is the base View class for layouting in Android
- Layout is a way to organise Views
- Can be created by code or XML files in res/layout
- Has hierarchical structure and can be nested

Layout XML:

- Containers (ViewGroups) contain Views, required layout_width, layout_height
- Adaptive Layout: Use different layout XMLs in different directories
 - → Tablet: layout-large, layout-xlarge
 - ◆ Phone: layout-normal
 - ◆ Small: layout-small
 - ◆ Orientation: -land, -port
- Example loading XML layout:

Popular Layout classes:

- FrameLayout
 - ◆ Can contain multiple children (Views)
 - ◆ Multiple layers, z-based order. First child at the bottom
- LinearLayout
 - ◆ One direction (Horizontal or Vertical)
 - ◆ Use layout-weight for stretching based on orientation
- RelativeLayout
 - ◆ Multiple layers, z-based order
 - ◆ Relativity of children's position and size to parent or others