Chapter 5 – Android Resources

[Group 7]

Chapter Objective

- To know what is Android Resources and kinds of resources.
- Understand briefly how each resources works

What is Android Resources?

- Resources: bundled to the app, stored in res/directory, can be accessed by code line: R.<category>.<resourceName>.
- Content: layouts, values, drawables, raw, styles, design guildelines.

Layout

• Definition

- A way to organize Views inside an UI, can be created in XML files in res/layout, nested.

• Layout XML

- Containers (ViewGroups) contain Views (TextView, ImageView, EditText, Button, ImageButton,...).
- Required: layout_width, layout_height. Optional: id (findViewById()).

• Adaptive: Layout on Android

- Use different layout XMLs in different directories. Eg: tablet: layout-large, layoutxlarge, Phone: layout-normal,...
- To load XML layout: In Activity file, use onCreate() with setContentView(); Fragment: use onCreateView().
- Popular Layout classes: FrameLayout, LinearLayout, RelativeLayout, ViewPager.
 - FrameLayout: can contain multiple children, multiple layers, first child will be at the bottom, support child margins, gravity.
 - LinearLayout: one direction, horizontal or vertical.
 - RelativeLayout: enables to specify how child views are positioned "relative" to each other.