

Homework 03 – ConstraintLayout

Due: Day 13 – March 2nd, 2022 (beginning of class)

Objective:

The goal of this assignment is for you to demonstrate your understanding of the ConstraintLayout features in re-creating a provided Android layout

Instructions:

For this assignment, you will be using **only** a **ConstraintLayout** to recreate the final layout, given the corresponding design specifications that I have provided below. Your rendered layout in the AVD should be identical to the final layout screenshot that I have provided below (**note: points will be deducted for each missing/different element**). The design specification provides the type of View (“widget”) that I used and shows the boundary of each View (“widget”) as a black outlined rectangle – you must ensure that the boundary of your Views matches the boundaries in the design specification (**note: points will be deducted for each View whose boundary is different**). The **red curly braces/text** in the design specification indicate the amount of space either (a) between Views or (b) within a View – you must ensure that the space between/within a View matches those explicitly listed (**note: points will be deducted for any spacing that is missing/different**). The **green text** indicates attributes of the Views that will need to be modified as well as descriptions of how View(s) were arranged on the screen. Finally, the **blue text** indicates guidelines that were used and their corresponding percentages. **Important:** You may only use the **three (3) guidelines** listed in the design specification – the use of additional guidelines is prohibited and will result in significant loss of points on this assignment.

Steps:

1. Create a new empty Android Studio project (your package name must be your first and last name for grading purposes)
2. Create a new empty Activity named **CopycatActivity** inside your project that has both a controller file and layout file (**note:** you will not be making any changes to the .java controller file)
3. Open the layout file of your CopycatActivity
4. Ensure that the root of your layout is a **ConstraintLayout** (if not, be sure to use the Convert view method above to change it to a ConstraintLayout)
5. Begin re-creating the layout, given the corresponding design specification on the next page

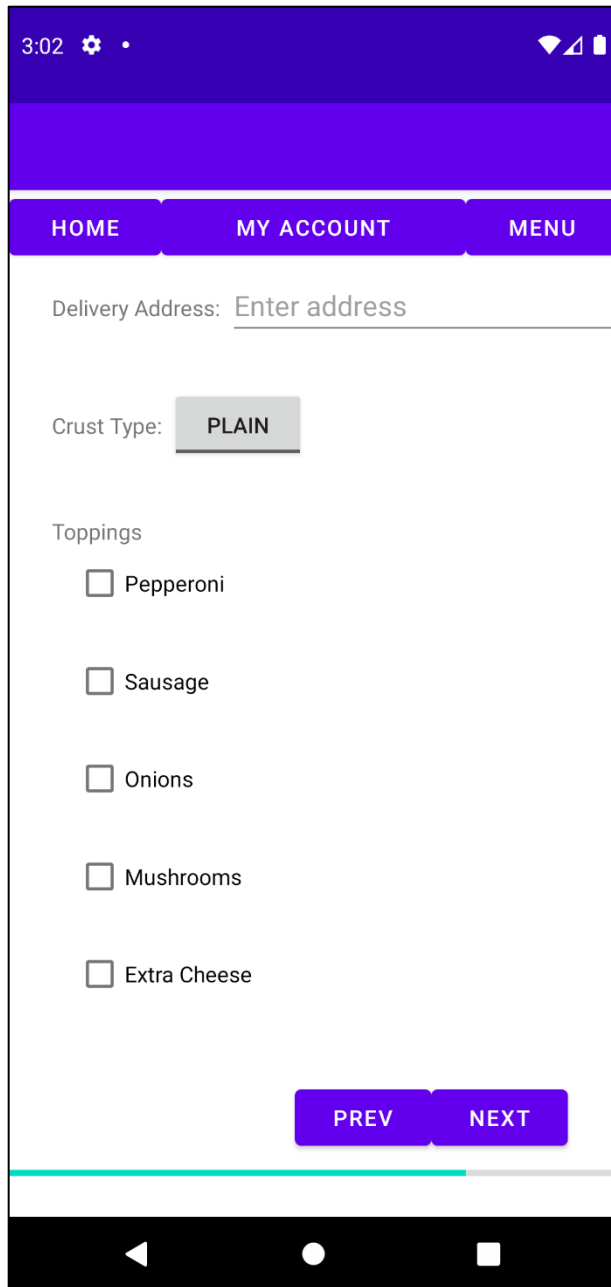
Tips:

- Start from the top and work your way downward to recreate the layout
- Recall, each View must have at least 1 vertical and 1 horizontal constraint
- Review our class slides on ConstraintLayout features to determine which feature best fits/suits each specification

Submission:

When you are finished, you must **zip** your Android Studio project. On Moodle, you should upload your zip file to the Homework 03 assignment box

FINAL LAYOUT



DESIGN SPECIFICATION

