

# **Mobile Apps 2024**

## **Assignment 1**

Due: 19 March 2024 18:00

Lucile Pelou

Student n°74526

I started this project by repeating the homework (which was not an assignment) done in class previously. So here is my start:

10:58

**Mobile Server Name**  
Please provide your server credentials

Username

Password

**CANCEL** **LOGIN**

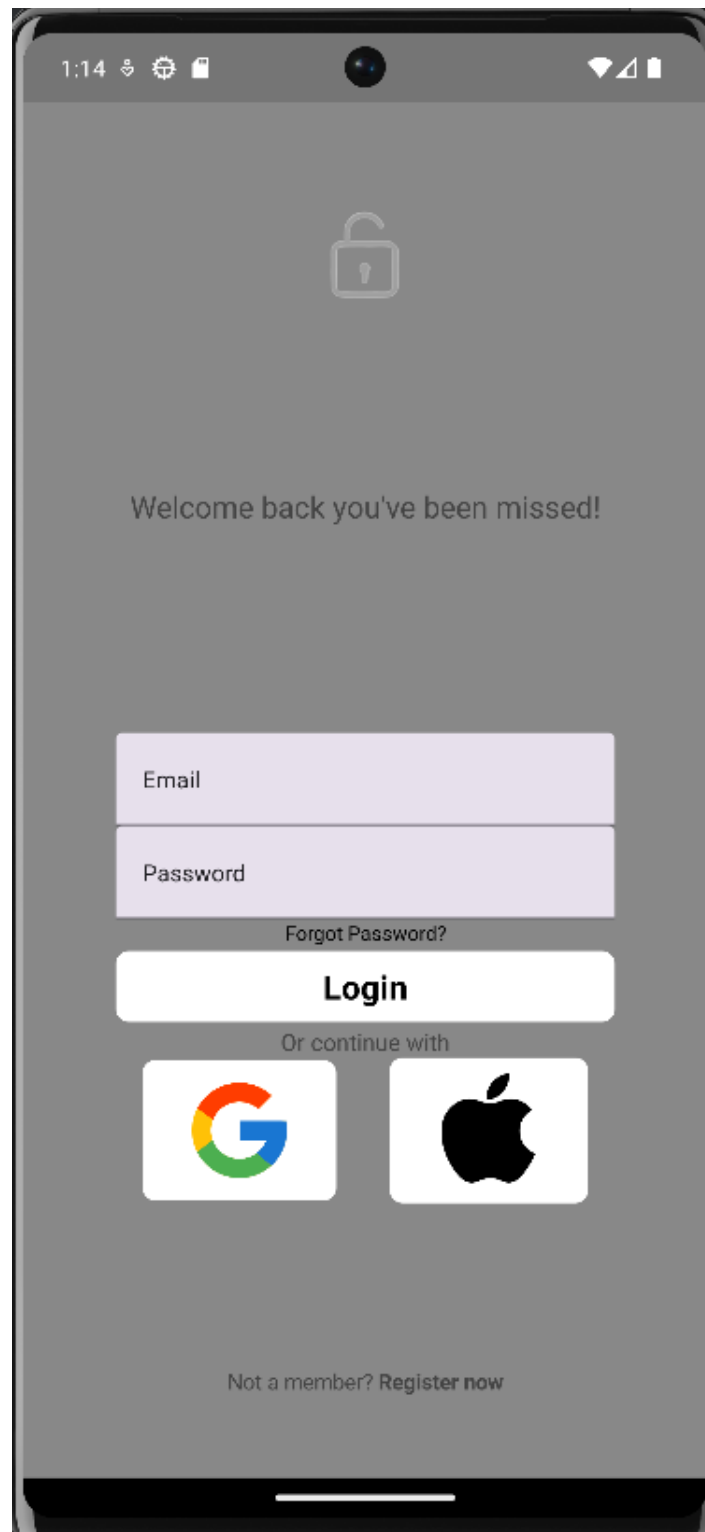
Footer text goes here

As I progressed in the project, I almost started again from 0 since in the previous project I did not use a TextField or buttons. So, I started by looking for how to put an image to be able to put the different icons. Initially all the information I found on this subject talked about making a drawable and making an ImageView, but I ended up finding the method which was very simple! All you had to do was create an image and retrieve it with your ID. To be able to successfully put the text “forgot password” on the right I created a spacer which I put in a row with the Text and which takes up all the available space and I put the textAlign of the Text at the end. This doesn't work without the spacer because the parent element that contained it has the horizontal alignment fixed to Alignment.CenterHorizontally. I also had a little trouble finding how to add rounded borders with the color I wanted and a background to the textFields and buttons. I often got this result:



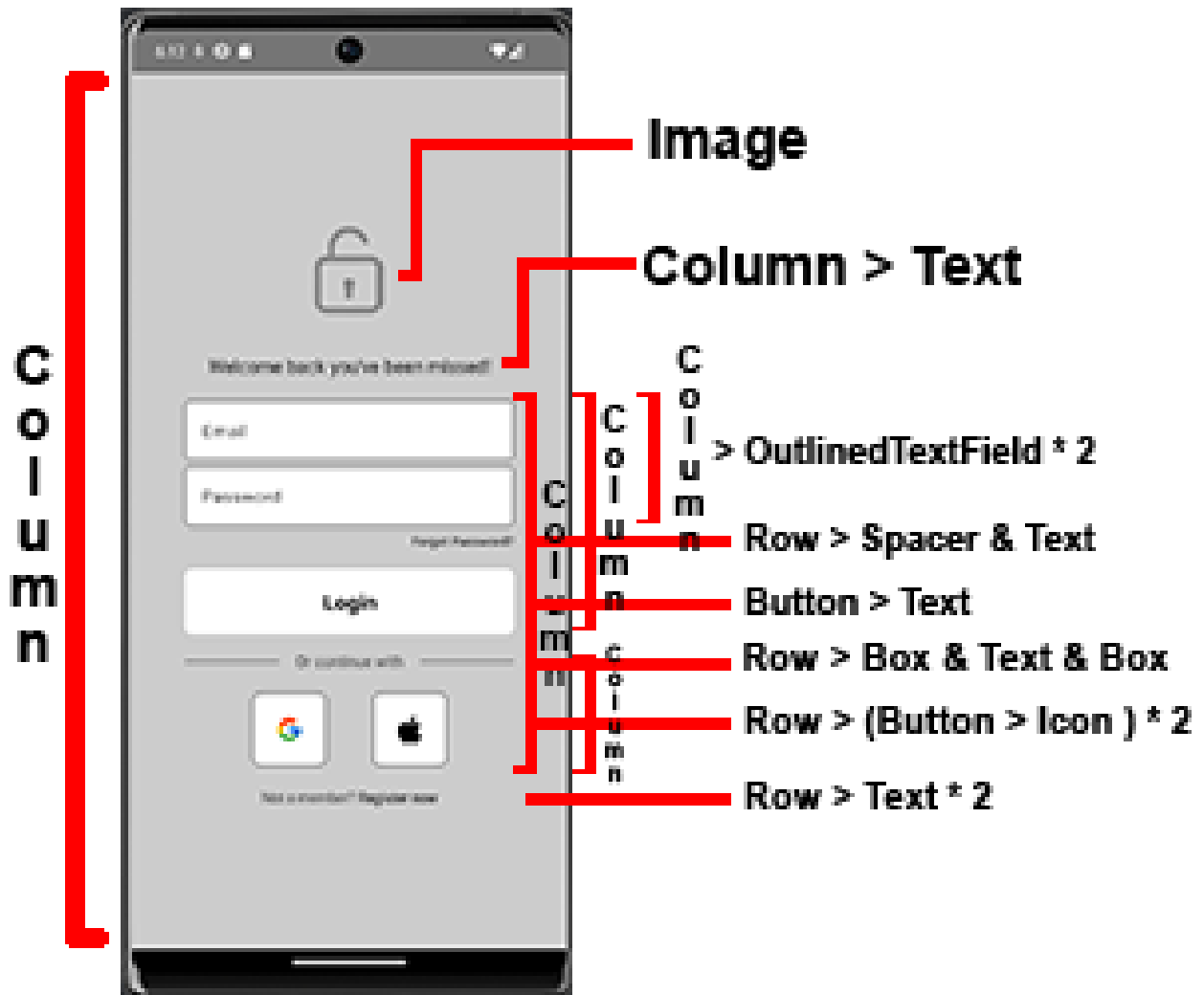
I found for Text Fields that there were OutlinedTextFields which are original with rounded borders and by modifying colors = TextFieldDefaults.outlinedTextFieldColors we can change the color of the background, text, etc. without impacting the borders and the background origin. And for the buttons it was enough to modify the colors of the ButtonDefaults.buttonColors. In short, you should not modify any properties on the background or borders.

Initially I had put all my elements in a main column with the vertical arrangement attribute fixed to `Arrangement.SpaceBetween` but it turns out that `Arrangement.Center` matches the original image perfectly. Here is my result before this modification:



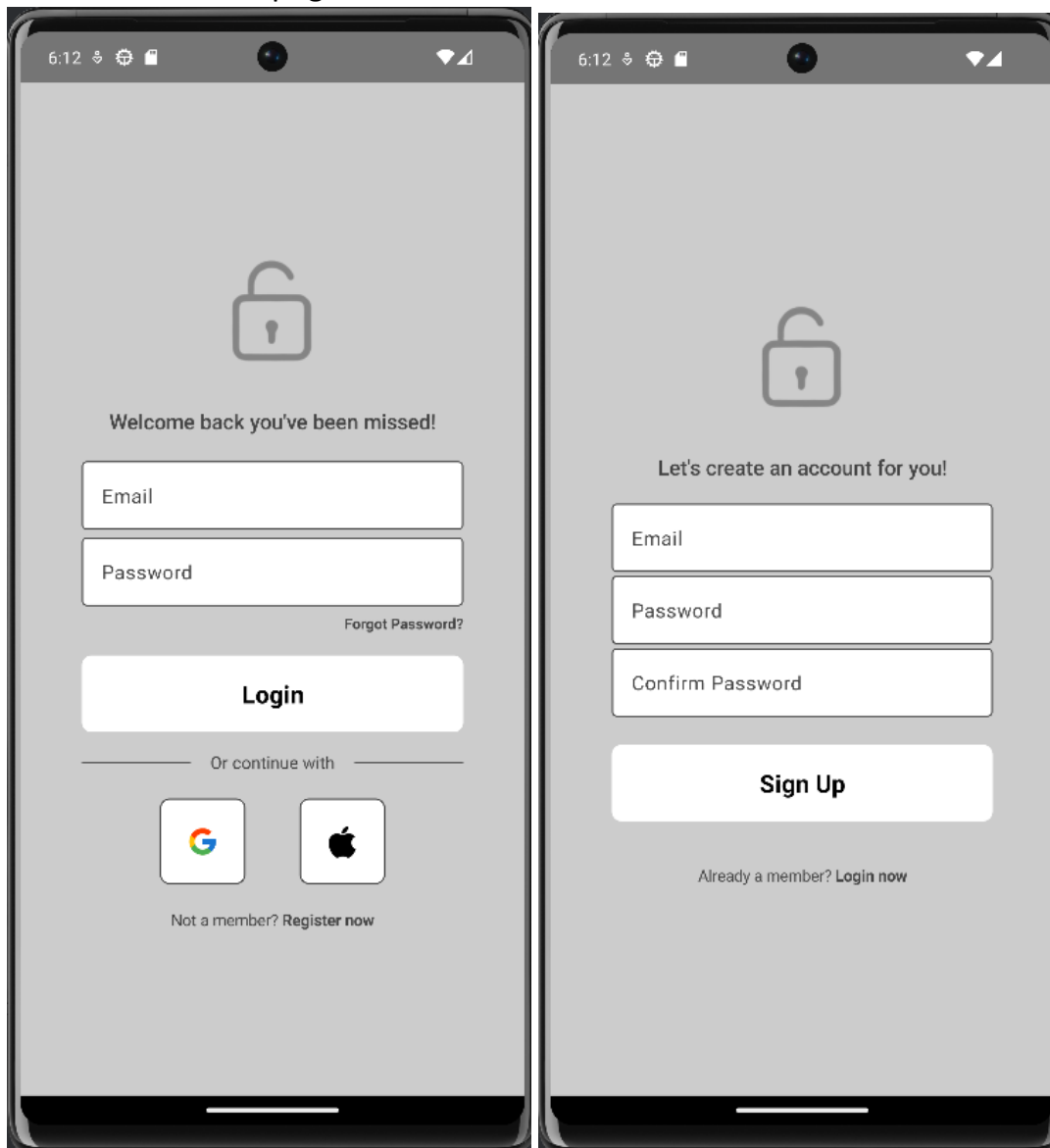
I did not encounter any other particular difficulties during this project, I think I managed to find the appropriate options for each element.

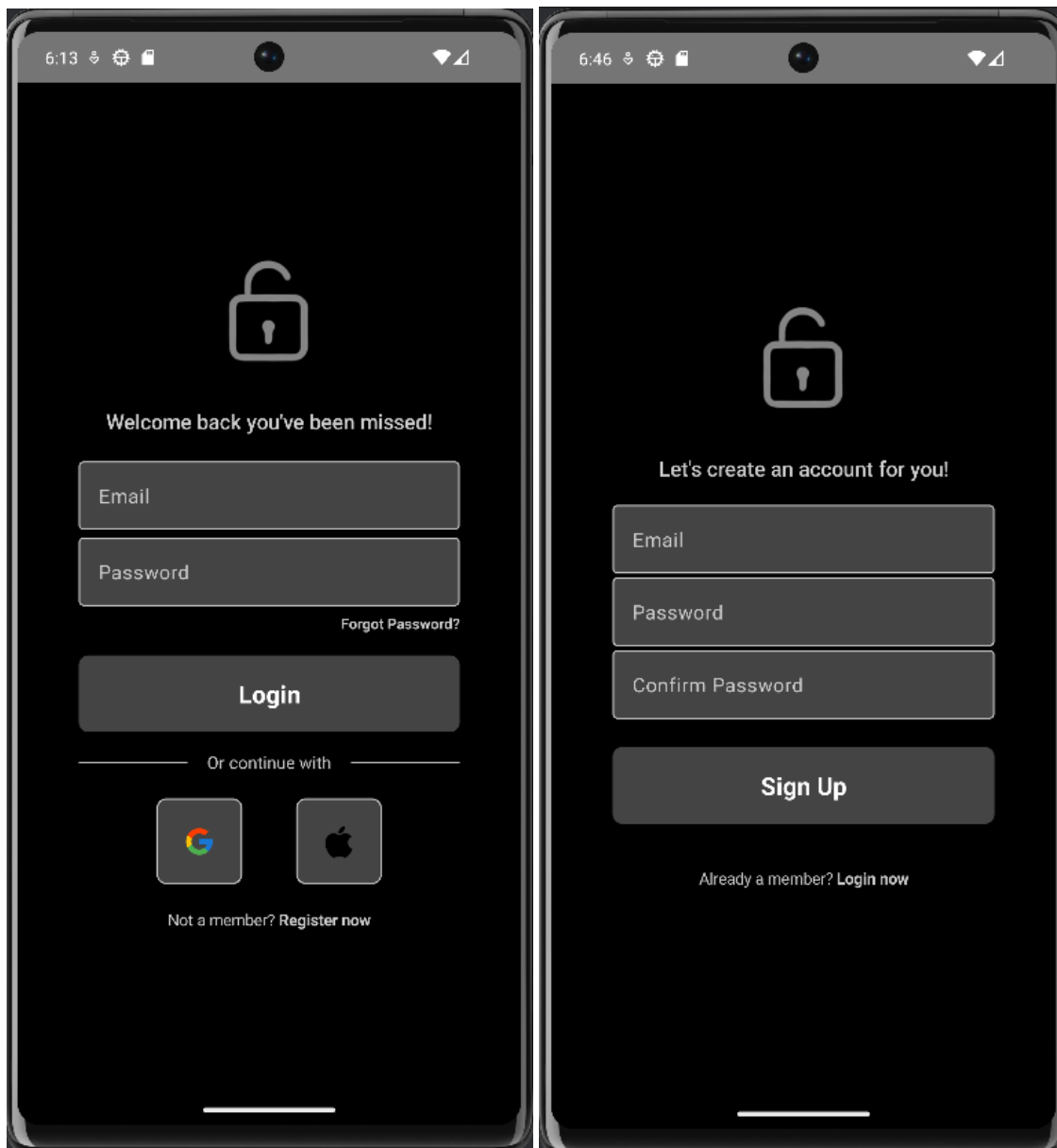
For the borders of the Text Fields and the buttons for the Google and Apple icons I put a darker color than in the example because we only have 4 colors at our disposal. In terms of layout, here is a diagram that will speak more than words:



Most columns have like changing `fillMaxWidth` and `horizontalAlignment` to `Alignment.CenterHorizontally` and `verticalArrangement` to `Arrangement.Center`. The main column also has `fillMaxHeight` to modify. Rows mostly have `verticalAlignment` at `Alignment.CenterVertically`. Some rows like the Text Fields or the two icons have `horizontalArrangement` at `Arrangement.SpaceEvenly`. The texts have different sizes, some are in bold or semi bold or normal. The icon buttons have rounded edges and shapes. And finally, some elements have padding.

Here are the last 4 pages:





I used Google Translate to help me with the translation between French and English.

To get information about some features like different arrangements I used this website:

<https://developer.android.com/jetpack/compose>