

3. Lab: Design & Flutter GUI

In this lab you will improve your design skills. Design is a craft that you can learn. It is an art if you want to be exceptional. You do not need to be exceptional to get a good grade in this module. However, you need to learn the skills ;) In addition you will continue to learn flutter.

- Everything which should be done individually is labeled with 📌.
- Tasks divided in the team are labeled 📅.
- Remember, everyone needs to do some 📅 tasks for each lab.
- You will get feedback for everything with 📅 three days after this lab, and we will discuss it at the start of lab 3, i.e. another chance for feedback ;)

3.1 Preparation

Everything if this chapter should be available in a alpha feature complete version.

3.1.1 Design

- 📌 Read and understand everything of the chapter [design](#).
- 📌 Copy a screen with a list of an app you like using styles and components in Figma.

3.1.2 Flutter: GUI

- 📌 Read and understand everything of the chapter flutter up to Flutter principles (13.6).
- In your team repository create a folder learning/yourLastname/lab3 with an app with
 - 📌 implementation of the Figma screen of the previous task in Flutter
 - [ListView](#)

3.1.3 Paper prototypes

- 📅 prepare 2 different paper prototypes that may be used for evaluation
- 📅 define 3-5 major [tasks](#) for your app for the evaluation

3.1.4 Fonts and Colors

- 📅 Choose fonts and colors for your app.

3.1.5 Icon/Logo

- 📅 Choose/design a logo for your app, you may try [recraft.ai](#).

3.2 During the lab

- We discuss your questions.
- We will all look at your Figma screen and its implementation in Flutter.
- We will look at all documents of all teams of lab 2 and discuss them.
- You will evaluate your paper prototypes with another team.
- You finalize your paper prototype.
- You assign the to-dos.

3.3 After the lab

- 📁 you realize your final paper prototype in Figma

Document the following parts in your portfolio (use the file docs/3-Design.md)

- 📁 your process up to the final Figma prototype
- 📁 user flow diagram
- 📁 data flow diagram
- 📁 reflect shortly, what went well, what was a waste of time and what was surprising

Within gitlab

- 📁 you add screenshots of your figma prototype to your issues
- 📁 you create your app in your repository in the folder src
 - define the theme
 - add your logo
 - implement the bottom navigation
 - create all files for your screens and widgets