

GUI Prototyping User Study Instructions

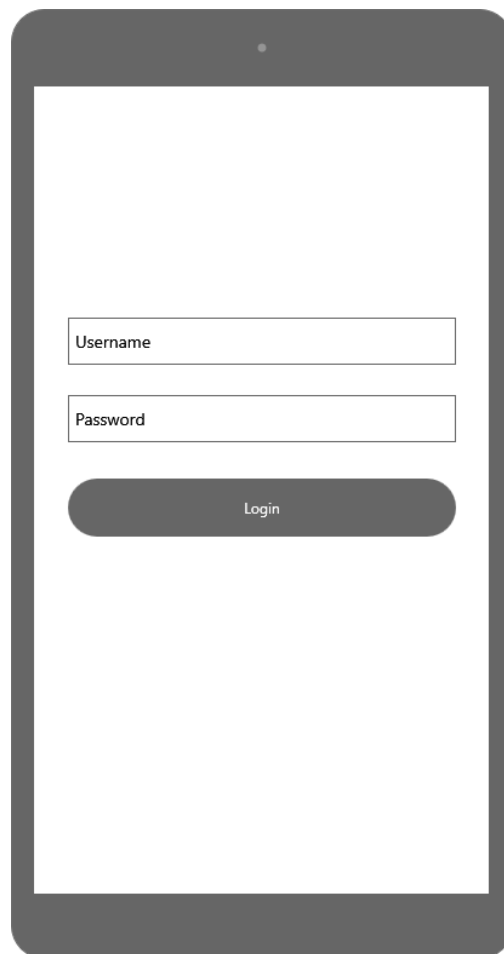
Dear Participant,

Thank you for your participation in our Graphical User Interface (GUI) prototyping study. In this study you will take on the role of a customer, who wants a new Android mobile app to be developed for the company. Usually, you would contact a software development company that will develop the app for you. A requirements analyst would then conduct several interviews with you and create a GUI prototype on the basis of your requirements before development. However, instead of talking to a requirements analyst, today you will create the GUI prototype of your app yourself assisted by a new GUI prototyping tool. The GUI prototypes can be used as a basis for discussions with the analyst as well as for the actual development of the application later on.

In the user study you will work on two tasks to create the GUI prototypes for two different apps. Each task is about a mobile application that consists of three GUIs. Each of the GUIs for the app to be developed will be shown to you as a very simplistic mockup version without any further context. A mockup is a simplistic visualization of the GUI with only very basic functionality. Please thoroughly check the mockup in order to understand the app and the functionality of each GUI. Your specific task is to create an improved version of the mockup by extending the GUI with many modern and typical features for such a type of GUI. The focus lies on the functional features, NOT the design of the app. For this task, you will be supported by a new GUI prototyping tool. To better understand how such a task in the user study looks like, we show an example task and an example solution in the following.

Example Task:

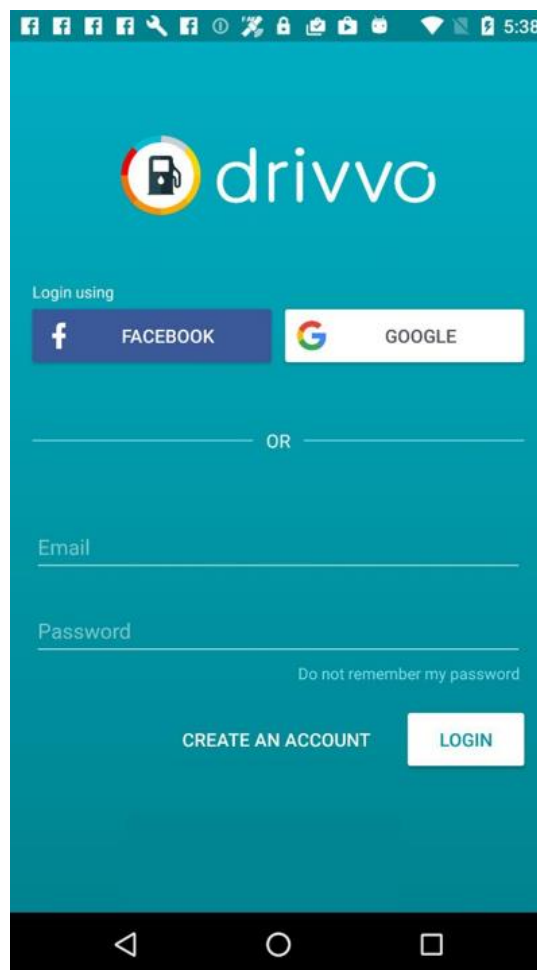
Below we show a mockup GUI similar to what you will be presented with in the actual task (here we focus on a single GUI, in the task you will have a small app consisting of three GUIs). As said before, this mockup contains only very limited features but enough to be able to understand what the GUI is about. Please take a look at the example mockup.



We can see a username and password text fields and a login button. Based on these features, we can conclude that the GUI should be a “login”. As it contains only very limited features and misses many important modern features, we want to extend this GUI to a modern version with more features.

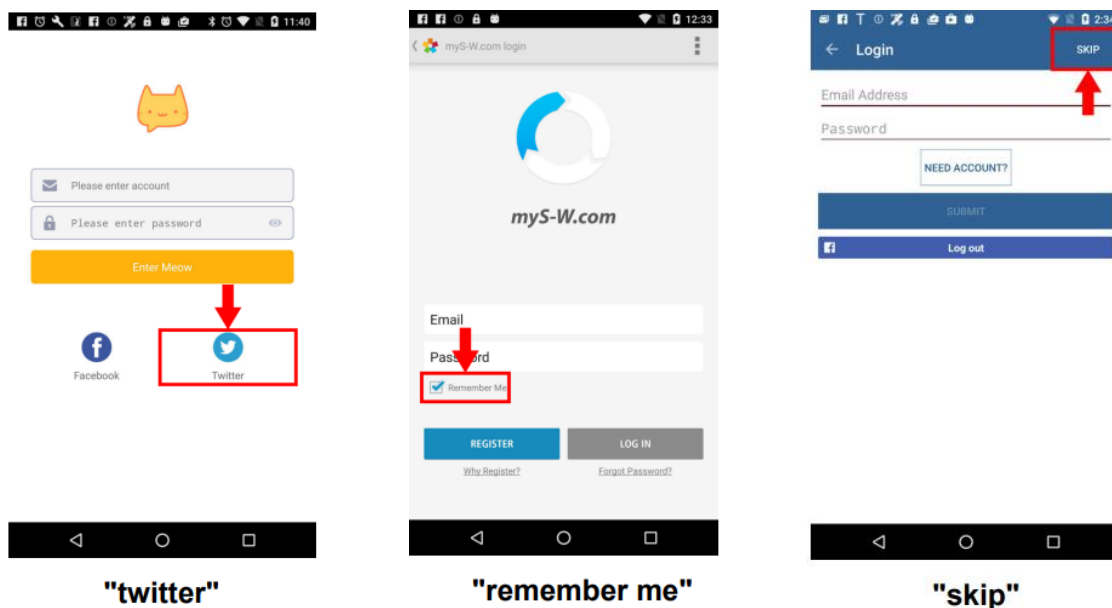
Example Solution:

The GUI prototyping tool will help us improve the basic mockup to a modern version of a “login” with many modern features, by searching a large database of existing GUIs with the tool based on textual requirements. After using the tool, we could end up with a solution as shown in the following.



As you can see, the solution GUI contains many new features that were not contained in the original mockup, for example, **options to log in with social media accounts such as facebook and google and a feature to create a new account**. However, since there might still be other interesting features that we could not find combined in a single GUI in the database, the tool also allows to add further features in the form of “*feature-GUIs*”. A *feature-GUI* marks a single feature in the GUI that is actually relevant to the user.

For the given example, we could imagine that we include the following *feature-GUIs*:



As you can see, the three feature-GUIs add interesting features to the previously shown GUI in the form of **another social media login “twitter”**, a **“remember me” option so that users do not have to enter their credentials repeatedly** and a **“skip” feature that allows users to start with the app without login at all**. The previously shown GUI plus these three additional feature-GUIs form the overall feature set. As you can see, from a very simplistic mockup, we ended up with a more sophisticated GUI containing many important and modern features.

To get familiar with the tool, we will give you a short introduction showcasing the most important features. Please inform the instructor now that you have finished reading the instructions.

You can now visit the web-based tool at the link below and start with the tasks. If you have any questions, feel free to ask.

<http://www.sergui-tool.com/sergui/>