

Lappeenranta teknillinen yliopisto  
School of Business and Management

Software Development Skills

<Serja Aaltonen>, <000251587 >

## **LEARNING DIARY, <Software Development Skills: Mobile > MODULE LEARNING DIARY**

13.2.2021

I already got Visual Studio Code installed and Git Hub ready. I started with Android Studio by installing it. I also installed Java JRE and Java SDK. I watched the first video of android Studio and setup a new project. I faced the problem with my first app that Android Emulator Hypervisor Driver couldn't be installed. The problem was solved to untick something in Avast Antivirus. I found that solution in StackOverflow.

I got my first app working with slight changes. I also learned how to choose either java or kotlin at the beginning of the project. Very important information, since the syntax differs.

Debugging part of the video tomorrow. Also I need to push the code to the repository.

14.2.2021

Watched the debugging part of the video ja push the code to the Git repository.

Started to do the example of the second video.

15.2.2021

Managed to launch the activity inside of the app. Having a problem with launching an activity outside of the app.

16.2.2021

I solved the activity problem. There has been a change in the package visibility and `intent.resolveActivity(getPackageManager()) != null` returns null. I added to the manifest this

```
<queries>
  <intent>
    <action android:name="android.intent.action.VIEW" />
    <category android:name="android.intent.category.BROWSABLE" />
    <data android:scheme="https" />
  </intent>
</queries>
```

and now the code is working.

<https://developer.android.com/about/versions/11/privacy/package-visibility>

17.2.2021

I started to watch and do the third video of lists, layouts and images.

18.2.2021

I continue the third video, I got the list ready.

19.2.2021

finished the video, I got the code working, but I does not show the right images. Solving that problem next. I found the error and the app works now.

Starting to plan my own app.

My app will be a counter for exercise having buttons for 1, 5, 10 and 100. I think to add neg button making possible to subtract from the counter with the same buttons. The end the results can be saved with a time stamp and an explanatory text.

20.2.2021

Creating buttons and fixing them into their places. Learning how to save data. I'm planning to save it in internal storage, not using any external service to keep it simple.

26.2.2021

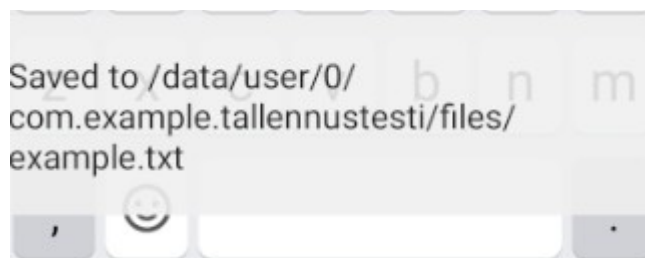
Started to program buttons

27.2.2021

Adding buttons are now adding their value to the result field. Starting to program Reset and Save buttons. Reset button resets the result field.

Started the second Activity for saving the result with some info and timestamp.

28.2.2021 Trying to find out how the saving works. Succeeded and then finding out where is the file. Found it. Now it's time to apply these teachings to my app.



Saving the result works now.

1.3.2021

I'll amend the second activity so that it will show the saved data. Solving before that

- adding the exercise type to the main activity - DONE
- saving the exercise type at the same time with the result DONE
- writing a new line so that older data will be saved at the same file DONE (2.3.2021)
- ensuring that the app does not write a new file every time it is opened, so that it does not overwrite the old data DONE (2.3.2021)
- saving the time stamp with the result and exercise type information DONE (2.3.2021)

- loading the saved file to the second activity view DONE (5.3.2021)

2.3.2021

Pressing the Save button

- load the data from the file DONE
- add result to a new line DONE
- save data to the file DONE

The app saves now the result, the exercise type and timestamp. It creates the file if it does not exist. EditText closes the keyboard after entering. The next phase is to implement the file to a secondActivity in a list.

4.3.2021

Starting to arrange the result data to the second activity.

5.3.2021

Result data is now in the second activity window. The app is “ready” and now I'll do cleaning and designing the look.

Resetting also the exercise type field.

Studying layouts in Android Studio.

Layouts ready and second activity list is scrollable.