Lappeenrannan teknillinen yliopisto

School of Business and Management

Sofware Development Skills

<Insert name here>, <Insert student number here>

LEARNING DIARY, MOBILE MODULE

**LEARNING DIARY**

14.11.2021

I started the course and created a new repository on GitHub. I read through the course information and environment setup pages, which seemed to be almost identical to the ones in the front-end course. I already have Android Studio installed from the object-oriented programming course, so it didn’t take long to get things going.

The first video covers a lot of things that I already knew, but a refresher is always good. I added in the components that were shown in the video. Programming the addition functionality reminded me of how to access the components in code and how to cast a string to an integer in Java.

Breakpoints and the step-by-step debugging were new to me and seem really useful. I also didn’t know of the quick way to turn an integer into a string by concatenating it with an empty string. I used String.format for the same purpose as I think it looks better.

22.11.2021

I watched the second video, which started with a quick terminology portion. It was good to revise what the definitions of activities and intents were, for example. After that I created a new Android Studio project. The video went through a quick tour again showing where things are in Android Studio.

Next I added the buttons and the second activity to the project. The video showed how to use intents, which was good as it was a little unclear to me before. In the object-oriented programming course I used fragments and a singleton to carry information between different screens, so I didn’t have to use intents back then.

After adding and testing the second activity and changing its text, the next task was to make the other button open Google. This didn’t work at first even though I followed the video’s instructions to a tee. After googling the issue, I found out that Android 11 made some changes to package visibility, which made the getPackageManager function return null. Thanks to Stack Overflow (<https://stackoverflow.com/questions/62535856/intent-resolveactivity-returns-null-in-api-30>), I managed to fix the issue by setting the queries in the manifest file:

Kuva, joka sisältää kohteen teksti

Kuvaus luotu automaattisesti