Lappeenrannan teknillinen yliopisto

School of Business and Management

Software Development Skills

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LEARNING DIARY, Software Development Skills: Mobile

Date:14.11

Today, I enrolled in the course and reviewed all the required materials. I downloaded Android Studio and Java for Mac and started working through the first part of the video tutorials, following the instructions carefully. I understand that I need to create an app and give it my own personal style.

I found some issues with my SDK, which I resolved by freeing up storage space. When I opened a new project, I couldn't see the Java and XML files. After watching a YouTube tutorial, I realized that I should not create a project with an empty activity, because in that case I cannot select the programming language.

Date: 18.11

Today, I continued with the first part of the video tutorials. I followed the instructions and created both an XML and a Java file. I encountered an error for a long time and couldn't understand why, but then I realized that I couldn't use **resultTextView.setText(result)** directly. Instead, I had to use **resultTextView.setText(String.valueOf(result));**

After making this change, my code worked perfectly.

Date: 19.11

I continued with the second video and followed the code step by step. I committed and pushed my tasks from the first video to GitHub. The Java file can be found under java/fi/lut/myapplication and the XML file under res/layout. I also pushed the code from the second video, which is located under app/src/main/java/fi/lut/myapplication2 and the XML file under res/layout.

After that, I watched the last video and followed the instructions. I pushed this code to a separate repository as well. Now I have three repositories containing all the material from the videos.

I am now ready to start working on my own app. I decided to create an app about myself, where I can showcase my hobbies and things I like—for example, my favorite dish along with its recipe. I also plan to include some fun facts about me and a mood scale indicating what I like and dislike.

Date: 20.11

Today, I started working on my app. I added a button and a TextView on the first page. At first, I had trouble changing the color of the button, but after some research and experimentation, I discovered that I needed to change <Button> to <com.google.android.material.button.MaterialButton> in the XML.

I also decided to change the focus of my app. Since I am an Erasmus student, I want the app to showcase my Erasmus experience in Finland and what I learned, my favorite Finnish dishes and other personal highlights. I began by creating the main page, adding a header and a button.

Date: 25.11

Today, I created a sketch for how to structure my app. I completed the first main page, which includes some pictures from my Erasmus experience and a Start button. When you click the button, it navigates to the second page, where you can see buttons for different categories such as activities or best moments.

If you select the Activities category a list of activities I did during my Erasmus is displayed for example, swimming in a lake or buying an overall.

Date: 26.11

Today, I added several new functionalities to my app. Now, when you click on the first button in the category section, it takes you to another page where you can see some Finnish words I learned. The next button is about the activities I did during my Erasmus. Clicking this button displays a list of activities, and if you select one, a picture related to that activity will be shown. The following button presents a Finnish dish that I like salmon soup. I added a switch button so that when you click it, the recipe for the salmon soup is displayed. In the Java class, I implemented the functionality so that the recipe is only shown after the button is clicked.

Date: 27.11

Today, I listed my three best moments from my Erasmus experience so far. For the last button, I added a checklist of important things for my Erasmus in Finland. I created a header in the XML and added several items that you can check off once you have them. If you have warm clothes, you can check the box and it will be marked.

Date: 28.11

Today, I added the functionality in the MainActivity file so that every button can be clicked and will navigate to its corresponding page. I also uploaded the entire project to a single repository on GitHub, instead of having separate repositories for each task. I created a video explaining how my app works and uploaded it to GitHub. I also added a README file that provides an overview of the app and its functionalities.