Lappeenrannan teknillinen yliopisto

Software Development Skills Mobile, Online course

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LEARNING DIARY, MOBILE MODULE

Date: 06.01.2024

Activity: Environment setup and watching part 1 video (Introduction)

Learning outcome: Downloaded all the necessary programs for the course and watched part 1 where I created a simple calculator

Date: 08.01.2024

Activity: Watching part 2 video (Core Elements)

Learning outcome: I watched part 2 where I created a simple app that can move to another activity and go to Google

 Date: 11.01.2024

Activity: Watching part 3 video (Lists, Layouts, and Images)

Learning outcome: I watched part 3 where I created a list app that lists 3 items and can move to another activity to display an image

Date: 29.10.2024

Activity: Started the project and finished it

Learning outcome: I now know how to program a functioning calculator and view its calculation history

LEARNING DIARY

06.01.2024

I checked the general information and looked at what the course has in store. I chose the mobile module because I'm interested in how mobile applications work. I did the Environment setup tab on Moodle where I noticed that I have almost everything installed. I also watched the part 1 video (Introduction) where I created a simple calculator that calculates adding 2 numbers.

08.01.2024

I watched the part 2 video and followed the steps. I made a new project and there I made a second activity. Then in the main activity, I made an on-click listener which starts a new intent to move the other activity. I learned that you can pass information between activities with the .putExtra command and retrieve it in the other. I also learned how to use Uri:s and how to make the app redirect to a website. I noticed that with the newer version of Android Studio, the if(goToGoogle.resolveActivity(getPackageManager()) != null) does not work, and if I go without it, google opens normally.

11.01.2024

I watched the part 3 video and followed the steps. I made a new project called list app and created a list view where I added different items. To do this I had to make another activity that shows the detail of one list element. Then I made it so that it has a name, description, and price. After that, I had to make an ItemAdapter class which will ensure that the items will be shown in the list. Then I made a separate view where it shows the picture of the item when you click on it in the list. I also learned how to scale down images if the screen size is smaller.

29.1.2024

I thought about what to do for the project. I came to the conclusion that I want to make a calculator app that calculates addition, subtraction, division, and multiplication and also keeps track of the calculation history. I created an Android Studio project and then started coding based on what I learned. I made a second activity where I can view my calculation history and made it display it on a list you can scroll through. I then created a GitHub repository and committed and pushed everything I had done so far as I forgot to do this while I was doing the exercises.