Lappeenrannan teknillinen yliopisto

Software Development Skills Mobile, Online course

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LEARNING DIARY, SOFTWARE DEVELOPMENT SKILLS MOBILE

I chose to do this course in a way that all the work was done towards the final project, so all the exercise projects were done in a way that fits my project. In hindsight that wasn’t probably the best way of going about it because the project structure got a bit messy in the end partly because of that and partly because I didn’t make a thorough plan about the project.

**Date :** 22.9.2024

**Activity :** Environment setup and project start

I already have the android studio environment on my PC but my laptop doesn’t so I started with that. It was also a good revision of how to start a project and what settings to have. I am still thinking about what kind of project to do. I know I want to make some kind of software that is related to my hobbies. Maybe something sports related?

**Date :** 24.9.2024

**Activity :** Project start, basic classes, fragmented view

I have been into golf lately so I figured that I would do a golf stroke counter application. I think the instruction videos fit this type of application well too. I made the necessary classes for my project like a class for golf course holes, the actual courses and the storage or the courses. Throughout this project I was watching the videos from the “Olio-ohjelmointi” course because the ways of doing things on that course was familiar to me. I took inspiration from my earlier android project and made a fragmented view for the creation and editing of a golf course. Something kind of broke too when I was copying activities which made it so that I couldn’t run the application.

**Learning outcome:** Revision of basic android studio functionality

**Date :** 26.9.2024

**Activity :** Fixing the problem in my application

I searched online about my problem and found a solution for the application not running. Because I straight up copied some already made activities some of the metadata needed for the activity to work was missing and I had to manually go fix that.

**Date :** 11.10.2024

**Activity :** Remaking couple of the views

Because of the lack of planning in my project I noticed that some of the views (especially listviews) kind of have the same functionalities. I decided to have the actual counting of the golf strokes in the same view as the editing of the course so you can put the par of the hole and your stroke count at the same time.

**Learning outcome:** Very specific planning is important and saves your time in the end.

**Date :** 15.10.2024

**Activity :** Started developing completed courses view

I wanted to make a way for the user to see all the completions of courses. Not sure yet how it should be done but at least a listview for all completed courses is needed. Made the UI a bit more clean but I think I will not focus on the UI that much on this course.

**Date :** 16.10.2024

**Activity :** Completed courses development

Created the main functionalities related to the completed courses activity. I think I will have to make a separate listview that lists the courses where you can select a course to see its completion history instead of all completed courses being on the same list. Once again the lack of planning is complicating things.

**Learning outcome:** Got more repetitions on listviews and now quite comfortable with working on them.

**Date :** 17.10.2024

**Activity :** Completed courses finished

As said in the 16.10. text I eventually made the completed courses activity to have a list of all the courses where you can select one of them and see all the completions of that course and compare them to each other. I would like to probably do a table where you can see all the statistics of each hole from a completed course. I added a copyCourse method to the course class because when a course was copied and the copied course was edited it also edited the original course.

**Date :** 18.10.2024

**Activity :** UI improvements and hole table

I made the UI decisions consistent through the whole application (Colors, fonts and layouts). Also made the hole table I was talking about in the 17.10. text. I know that it could have been done a smarter way but didn’t want to use too much unnecessary time on that. I used the tablelayout for the first time too and it fit perfectly for what I needed it to do.