

Lappeenrannan teknillinen yliopisto
School of Business and Management

Software Development Skills
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LEARNING DIARY, MOBILE DEVELOPMENT

For this course I chose to incorporate the smaller tasks into the actual project and reflect the steps through the learning diary. Meaning that there are no separate applications for the module tasklist parts.

Things I learned from the project:

- Java skills
- Adding and managing external libraries to projects
- Importance of proper planning, and realising that most of the plans don't work out due to the number of complications and incompatible technologies and methods.
- Programming mindset

Diary:

4.9.2024 10:30

Installed android studio and created a project. Most of this was familiar from previous courses. Watched the first coding video and Created empty activities for the application.

5.9.2024 11:01

Watched the second and the third videos. Instead of ListView I chose to use RecyclerView for more freedom.

Created a list using recycler view, had to watch some older lecture videos from the OOP course to remember how things worked.

6.9.2024 14:22

The learning videos in the course didn't really give me any new information and were somewhat redundant. All the smaller tasks can be found in the implementation of the project.

Created functionality for creating new exercises.

11.9.2024 14.15

Implemented file saving system for exercises which will be expanded in the future to include workouts and other data.

12.9.2024 17.09

Implemented the workout creation and management systems to the application. Expanded the file management to include the workouts

17.9.2024 14:00

App development is ongoing. Mainly just reused old components and data structures. I noticed that when the project is not properly planned, the classes don't have the ability to use them in another context which leads to lots of similar classes with slight changes, which makes the code a lot messier and harder to handle. Re-implementing some classes would help but is also way too tedious. I'm going to have a bad time.

18.9.2024 02:23

State of file naming: ChooseExerciseToWorkoutListAdapter.java
Hell is let loose.

27.9.2024 13:02

Hell has successfully been managed. I've learned that when I'm not tired, the issues seem a lot smaller.

Workouts can now be started and finished and the workout log is created and saved to file. Some complications which have risen were a RecyclerView inside a RecyclerView which was more complex than just a regular list. However this experience made me more comfortable with the rising complexity of the application. Some Try/Catch structures still need to be implemented in order to handle the user input. Next step of the development would be to create a functional UI for the log, in which the user can see their progression.

1.20.2024 15:55

Implemented a calendarView to the application to show the workout log in a neat way.

14.10.2024 16:36

For the chart implementation, I chose to use the following <https://github.com/jjoe64/GraphView>
Trying to get an external library to work required some modifications to the build files and was an experience to say the least.

17.10.2024 12:38

I chose to end the active development of the application and return the project.
The basic functionalities are done. Next step would be UX improvements which will be done someday.