

**Lappeenrannan teknillinen yliopisto**  
**School of Business and Management**

**Software Development Skills**

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# **LEARNING DIARY, MOBILE (2025- 2026) MODULE**

## Learning diary

**15.12.2025**

I started the course by checking the Moodle-page to get an idea of what this course was about. I installed android studio and set up a repository for this courses tasks.

I have some earlier experience with android studio and android development, and I am hoping for this course to refresh my memory about it.

I started working first on the exercise videos. First new thing I noticed is that the default android studio project uses Jetpack Compose and not xml which I was used to. I will stick to compose since it seems to be the norm today. Also the default language is Kotlin and not Java that was used in the earlier course. I decided to stick with Kotlin and compose to learn from this project.

The given example videos use Java and XML for the code and layout, so I didn't follow them exactly, I skipped trough all three of the videos to refresh my memory on android development but decided to learn the modern way of developing.

I watched this video to get the basics:

[https://www.youtube.com/watch?v=6\\_wK\\_Ud8--0](https://www.youtube.com/watch?v=6_wK_Ud8--0)

From the video I learned about, for example, component modifiers, layouts, lists states and different elements (text field, button, list)

After learning the basics, I started to plan what I would do for my project.

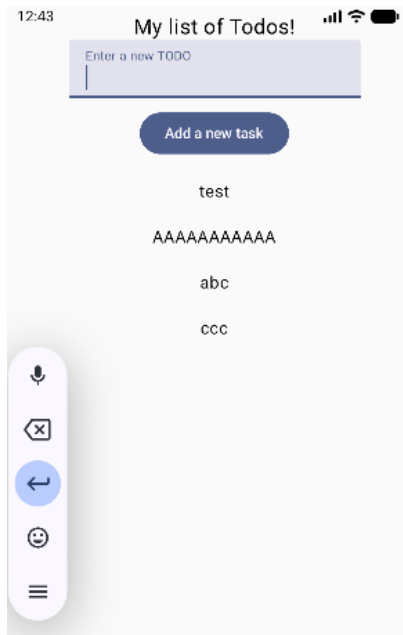
**16.12.2025**

I decided to create a TODO-app for my project for this course. The first thing I did was search online to find some examples for my project. I found some simple examples that helped me to start building the prototype of my project.

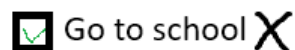
I started with a very basic data model for the todos: a string for the todo-task and a Boolean value for if its done or not.

Next thing i did was create a textfield and a button that would add a new todo to a list. The list would be displayed after the textfield.

Getting started with Kotlin was a bit confusing at first, but I managed to get a working prototype quite quickly.



My plan was to make the list of todos to look something like this:



Checkmark box  
for keeping track  
of completed  
tasks

Delete todo  
button

**17.12.2025**

I started working on the final version of the app.

I split the app into two different views, one for adding todos and another for displaying them.

TodoView is the main function of the app, where it uses a state variable to change and update between the two views.

AddTodoView is the default view where users can add new todo's. It is a simple text field with a button. AddTodo view also has a button which takes the user to the second view.

TodoListView is the second view for this app. The app displays all of the users added todos, with a checkmark box on the left and a delete button on the right. User can mark the todo done, by clicking the checkmark box, and completely delete a todo with the delete button.

The todos are saved in a list, but it could be easily transferred to a file or a database for saving them, but for the purpose of this project, it is simply saved only when the app is running.

I had some problems with getting the buttons and texts to be in clean way, but using columns and rows I made them look nice.

Finally, I wanted to style the app a bit better, since the default android theme was pretty ugly. I made a simple dark theme for the app and it looks good to me.

**18.12.2025**

I finished the project, created a README for the repository and recorded a small demo of the application.