Lappeenrannan teknillinen yliopisto

School of Business and Management

Sofware Development Skills

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LEARNING DIARY, PERSONAL COLOR ANDROID APP

**LEARNING DIARY**

06.9.2024  
  
I read and understood the course requirements, with the main goal being Android app development. I completed setting up the environment creating a public Git account, which is named mobidevelopment. I also confirmed that my Git settings are correct and connected my local project to the remote repository.

I will use Studio Android as my code editor development for this course. My next task is to watch the introductory video to gain a better understanding of Studio Android and update the diary as I make progress.

07.9.2024

I started to watch the first part of the example project to understand the technologies better. After that, I created a new project in android studio using “Empty Activity” (same as introduction video) and selected AIP 21 for the project. After setting up the project, I connected it to a Git repository. Next step, I’m going to think about the idea of the application that I want to do for the project.

09.9.2024

I have an idea for my application. I'm going to create a personal colour quiz app. The main goal is to determine each user's personal colour palette (spring, summer, autumn, and winter) and then recommend makeup and outfit tips that are suitable for them.

12.09.2024

I have started designing layout for the app to determine personal colors. The app’s user interface will feature 2 main colors: purple, white (background) and black for the texts. I aim to create an interface which brings comfort to users, so I am keeping the color scheme simple with minimal variation.

On the first screen (activity\_main.xml) the user will be introduced to the purpose of the application and will be asked to enter their username. They can start the quiz test by click “Start Quiz” button.

13.09.2024

I designed the second layout today (activity2.xml). This screen contains 5 questions, and I have used ScrollView to display all the questions on the screen.

I plan to program the activity to move from first screen to the quiz screen and get the user's name to greet them before starting the quiz.

15.09.2024

Today I watched the second video to understand the core elements and after that I have programmed the activity to handle starting the quiz when the user clicks on the 'start quiz' button. I have integrated logic to switch to quiz screen and display questions.

I used intent to go from main activity to quiz activity and passed username via putExtra.

17.09.2024

I have started developing quizactivity for the app and integrated the necessary functionalities. However, I encountered some challenges when working with RadioButton and RadioGroup, I'm having trouble ensuring that the answers are selected properly and that the scoring logic works correctly. I will focus on improving the data processing logic and thoroughly testing different cases

18.09

Today, I updated the logic in the app to handle the situation when users' scores for seasons are equal. After some research, I decided to attribute all cases of equal points to autumn (color palette), based on autumn's tendency to be more neutral and easier to apply to individual colors.

20.09.2024

Finished programming quizactivity, which processes and displays quiz questions after the user moves from the first screen. I used intent to get username from mainactivity and show greeting on quiz screen.

I've set up logic to calculate scores based on the user's answers and determine the appropriate season based on the scores. I also learned how to use Intent to get data from the previous activity.

Next is to continue developing the Resultactivity to display the result.

21.09.2024

Today, I finished developing Resultactivity for the application. To test the functionality, I have implemented the source code for this activity, and it worked but have not yet designed its layout.

25.09

So far, I have completed the sections 1. Functionality with components (e.g., buttons, text fields, togglers, etc.) and Multiple views for my project, but I still don't have a list view and images, so I will continue watching the last video that the teacher sent to learn how to create them.

29.09

After watching the video, I am planning to attach images for each personal color. For example, if the user's result is spring, the screen will display spring along with the color palette for spring.

As for the list view, I think it will include makeup and outfit suggestions. When the user clicks on it, the suggestions will appear right below.

01.10

To implement this, I have added PNG images to the drawable folder, totaling 4 images corresponding to the 4 personal colors.

, I started working on the ResultActivity for the personal color app. I used TextView, ImageView, and ListView to display the personal color and images.

03.10

Next, I created a list of suggestions for outfits and makeup. When the user clicks on an item in the list, the details about the suggestion will appear. I also changed the images based on the personal color, making the interface look nicer.

10.10

Finally, I added a back button so users can easily return to the main screen. Through these tasks, I learned how to use interface components and handle events in Android. My next plan is to test the app to see if the results are correct and to improve some small details, such as colors and layout.

23.10

After reviewing everything, I writed about how the app runs and commit the information to the README.md file and commited the source code on GitHub to prepare for submission.