Lappeenrannan teknillinen yliopisto

School of Business and Management

Software Development Skills

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LEARNING DIARY, MOBILE ANDROID DEVELOPMENT MODULE

**LEARNING DIARY**

05.04.2020

The first day of the Mobile Android Development Module was based on understanding and analyzing the focus of the course by expanding my knowledge and my skills as a software developer. So, I concluded that the reason why I chose the module was because it looks very interesting and it may be a good to gather more experience to improve more in this area. Next I watched the video about setting up Git repository, then learned how to use it. After I learn about Android Studio and it took me all day to familiarize with all the necessary commands I need for my project. I can not say that it was an easy work because I had to use Java, but not impossible.

06.04.2020

In the second day I started my designs ideas about the app after I watched all the videos to check my thoughts. So, I decided to create a program related with books and what better than a Bookshop. My idea was to create an app when people can buy books and for that I need to have a list with all the book that were available for the clients.

Next I created it using a deliberate SplashScreen class. In this class, I created a Splashtime variable so that I can specify how long the screen should be visible to the user. I then linked the Spashscreen class to the MainActiviti class using the handler, intent and method. After a while I made it.

07.04.2020

In the third day, I continued building ListView with the MainActivity class. I've made several articles for the books (The Hunchback of Notre-Dame, Harry Potter: The Complete Collection, Where Rainbows End and The Spartans). In the video three I found how to create ListView. It was very useful because it gave you general instructions. In my presentation I also listed a general model from ListView, TektView (name of the book), ImageView (photo of the book) and another TextView (for price). After I thought it could be much nice to but some CheckBoxes, so I decide to put some so it can be mush easy for the client. So, I realize that I had to use a target to get information from one activity to another. The target included a MainActivity class (the category in which the publication was originally created) and a CheckoutActivity class. The inten.putExtra helped me to add what I wanted to move to the next category and to activate the item in the next class I use getStringExtra.

08.04.2020

In the fourth day I created Buttons for applications. From the previous video I remember that a button consists of text and an icon that shows what happens when a user (client) clicks or presses it. Next I saw that there are various types of buttons in Android Studio, like  [RadioButton](https://abhiandroid.com/ui/radiobutton/" \t "_self" \o "RadioButton), [ToggleButton](https://abhiandroid.com/ui/togglebutton/" \t "_self" \o "ToggleButton), CompoundButton and with attributes like Id, gravity and text, textcolor, etc. with which they can be configured. So, I have created buttons for the application so customers can order the change as they want and calculate their final price.

09.04.2020

The fifth day was based in learning and using the FrontEnd Developing. After that I thought I could add different types of layouts in the program. I was forced into its width and height in every layout. I placed the view in match parent, in order so the component can be displayed as large as its parent, focused gravity and orientation vertical.

10.04.2020

In the sixth day it was not so difficult to write in Android Studio. So, to calculate the final herd price, I used " If statements " today. Through the checkboxes, the customer can add how many books he wants to have. In this case, the price is added to the final calculation. Otherwise, the price will not increase.

11.04.2020

The last day was based on creating an adapter class for the ListView. I encountered a problem when the adapter class UI component and the data source helped us fill in the UI component information. I checked the adapter types and found many options but the one I chose was ArrayAdapters because I had to adapt a list of single items, such as CheckboxId, Price, etc. Next I upload my work in the Git repository.