Lappeenrannan teknillinen yliopisto

Lut university(Exchange student(Master, Technology))

Software Development Skills Android, Online course

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LEARNING DIARY

Date: February 15, 2023

Activity: Learning Git and GitLab Learning Outcome:

Today, I learned about Git, a popular version control system used in software development to track changes in code over time. I set up a new Git repository and learned how to stage and commit files to the repository. I also practiced modifying, renaming, and deleting files and saw how these actions are tracked in Git.

Next, I learned how to view differences between two versions of a file, which can be useful when working on collaborative projects with other developers. I also learned about branching in Git, which allows for the creation of separate versions of the code that can be worked on independently before being merged back together. I practiced creating and merging branches to better understand how this process works.

Finally, I learned about GitLab.com, an external repository manager that provides additional features and tools for managing Git repositories. I explored some of the features of GitLab.com, such as issue tracking and code review, which can be helpful for teams working on larger projects.

Overall, this was a very informative and practical session, and I feel more confident in my ability to use Git and GitLab for version control in my future projects.

Date: March 1, 2023

Activity: Learning how to set up an Android Studio Project and make a simple app

Learning Outcome:

Today, I spent time learning how to set up an Android Studio project and make a simple app. The tutorial covered various aspects of Android Studio, including creating a new project, using the layout editor, and debugging the app.

First, I learned how to download and install Android Studio on my computer. Then, I followed the tutorial to create a new project and explored the various components of the Android Studio interface. I learned how to create a new layout using the layout editor and how to add different elements to the layout, such as text views, buttons, and images.

Next, I learned how to write code in Java to add functionality to the app. I created a simple "Hello World" app that displayed a greeting message when the user clicked a button. I also learned how to debug the app and run it in the Android Studio emulator.

Overall, this was a great introduction to Android Studio, and I feel more confident in my ability to create basic apps using this powerful development tool. I look forward to exploring more advanced features of Android Studio and building more complex apps in the future.

Date: March 15, 2023

Activity: Learning about core elements of Android development

Learning Outcome:

Today, I spent time learning about the core elements of Android development, including Activities, Intents, IntentServices, and BroadcastReceiver. These elements are crucial to building complex and functional Android applications, and it was fascinating to learn how they work together.

First, I learned about Activities, which are the building blocks of any Android application. An Activity represents a single screen with a user interface, and each application

can have multiple Activities. I learned how to create a new Activity in Android Studio and how to switch between different Activities using Intents.

Next, I learned about IntentServices, which are used to perform background operations on an application. I learned how to create an IntentService and how to start it using an Intent.

Finally, I learned about BroadcastReceivers, which are used to listen for system-wide broadcasts and respond to them. I learned how to create a BroadcastReceiver and how to register it in an application.

Overall, this was an insightful tutorial that gave me a better understanding of how different elements of an Android application work together. I look forward to exploring these concepts in more detail and using them to build more complex and sophisticated Android applications.

Date: March 17, 2023

Activity: Watching a video on Lists, Layouts, and Images in Android Development

Learning outcome:

Today, I watched a video on Lists, Layouts, and Images in Android Development. The video covered a range of topics related to Android app development, including how to use ListView, creating custom layout components, and incorporating images with ImageView.

One of the most important takeaways from the video was learning how to use a ListView in Android Studio to display a list of items. I also learned how to create a custom layout component in Android Studio and use it in a ListView. This will be really helpful when I want to design my own layout for my app.

Additionally, the video provided insight into using images in Android Studio with an ImageView component. I learned how to use different layout options available in Android Studio, such as LinearLayout and RelativeLayout, and how to ensure proper image display on various devices by using different density-independent pixels (dp) for different screen sizes.

Overall, I am excited to put my newly acquired knowledge into practice and continue my learning journey in Android development.

https://smori.tistory.com/32

this is the my personal blog that I wrote for additional learning.