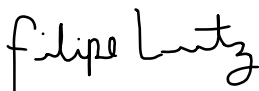




Dorset College Dublin

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Abstract

This report presents the design and implementation of a mobile app login and sign-up screens using Android Jetpack Compose. The project consists of four main screens: gLogin, gSignUp, bLogin, bSignUp. Each screen is composed using Jetpack Compose's composables, with a focus on modularity and reusability. The report details the rationale behind design choices, challenges faced during implementation, and lessons learned.

Table of Contents

Abstract	1
Introduction	3
Project Overview	3
Design and Implementation	3
Challenges and Solutions	4
Lessons Learned	4
Conclusion.....	5
References	5

Introduction

This report describes the development of login and signup screens for a mobile application using Jetpack Compose. Jetpack Compose is a modern UI framework for Android that allows developers to create declarative and composable UIs. The objective of this project was to gain experience with Jetpack Compose and build essential user interaction elements like login and signup functionalities.

Project Overview

The project comprises four main screens: gLogin, gSignUp, bLogin, bSignUp. Each screen is implemented as a composable function, allowing for easy composition and reuse. The design emphasizes simplicity, clarity, and adherence to Material Design guidelines. I tried to do as close as possible to the images provided.

Design and Implementation

The login screens are structured using Jetpack Compose's layout components such as Column, Row, and Box. Each screen consists of distinct UI elements arranged in a cohesive manner. The color scheme follows Material Design principles, with carefully selected colors to enhance readability and visual appeal. I used the code provided in class for the Red Login page as a base for this project, I just modified it accordingly as I needed to.

Challenges and Solutions

During implementation, several challenges were encountered, including customizing TextField colors and aligning Divider components. These challenges were addressed through experimentation and research. I also watched a few YouTube videos to understand how could I solve the problems.

Lessons Learned

The project provided valuable insights into Jetpack Compose's capabilities and best practices for UI design. Key learnings include the importance of modularity, the versatility of composables, and the need for meticulous attention to details.

Conclusion

In conclusion, the project successfully demonstrates the feasibility of using Jetpack Compose to create elegant and functional login and signup screens for mobile applications. The experience gained from this project will inform future endeavors in Android app development.

References

Android Jetpack Compose Documentation:

<https://developer.android.com/jetpack/compose/tutorial>

<https://developer.android.com/jetpack/getting-started>

Material Design Guidelines:

<https://m3.material.io/develop/android/jetpack-compose>

YouTube:

<https://www.youtube.com/watch?v=ZERIxmbYP-U>