Abstract

The thesis examines the process of developing an Adaptive online application for organizing daily tasks in a cloud environment for the Android platform using modern technologies of the Jetpack Compose interface and the Firebase cloud service.

The main goal is to create a convenient and intuitive application for keeping daily records with the ability to store data in the cloud.

The application development consisted of the following stages: analysis of existing solutions, design of the database structure in Firestore, implementation of user authorization using Firebase Authentication, creation of interfaces for adding, editing, and viewing records, as well as organization of interaction between UI and logic levels using the MVVM architectural model.

The application allows the user to create records, store them in the cloud, sort by date, and manage their own records in a convenient interface. The implementation process used the Kotlin language and the Android Studio environment.

Keywords: responsive application, Firebase, Jetpack Compose, Android, Kotlin, MVVM, Firestore.