Mobile Online System of Household Technical System

Gaynazarov Sultan

National University of Uzbekistan named after Mirzo Ulugbek, dr. phys. - math., Professor of the Faculty «Applied Mathematics and Intellectual Technologies»

Yusupova Nazokatxon

National University of Uzbekistan named after Mirzo Ulugbek, 2nd year master student of the Faculty of «Applied Mathematics and Intellectual Technologies»

ABSTRACT

This research will work on the creation of a mobile online system for the implementation of home maintenance, that is, an online system that provides communication between the maintenance provider and the consumer of maintenance. Preliminary work will be carried out on the design of this service. The types of services that can be provided in the mobile application are mainly formed by the part used by the service provider and the application is created. It then moves on to designing and creating a section for users of mobile online system services.

Introduction

Saving people's time and creating convenience for them by creating an online system of household technical service. The mobile application serves to ensure communication between the customer and the technical service provider. In order to make the application easier for the user, it is important to have a user friendly interface, i.e. a simpler look. The technician places information about themselves and the type of service provided and their details, and the users select the type of technical service they need.

Literature Review

Gergely Orosz, Building mobile apps at scale. The book guide for building iOS, and Android native apps with the example of problems and common solutions around the industry.

Keith Makan, Android security cookbook. It is aimed at anyone who is curious about Android app security and wants to be able to take the necessary practical measures to protect themselves; this means that Android application developers, security researchers and analysts, penetration testers or IT managers facing the impeding onslaught of mobile devices in the business environment will benefit from reading this book.

Erik Hellmann, Android programming pushing the limits. The book is targeted at developers who have previous experience with the application development for Android and each chapter goes into the deep technical details of their respective topic.

Main body

To use the mobile application, registration as a user and technician is required. The technician is required to enter information about himself and the type of service offered, prices (optional), contact phone number or email address. To register as a user, it is enough to enter a name, email address and a password to login to the application. [1]
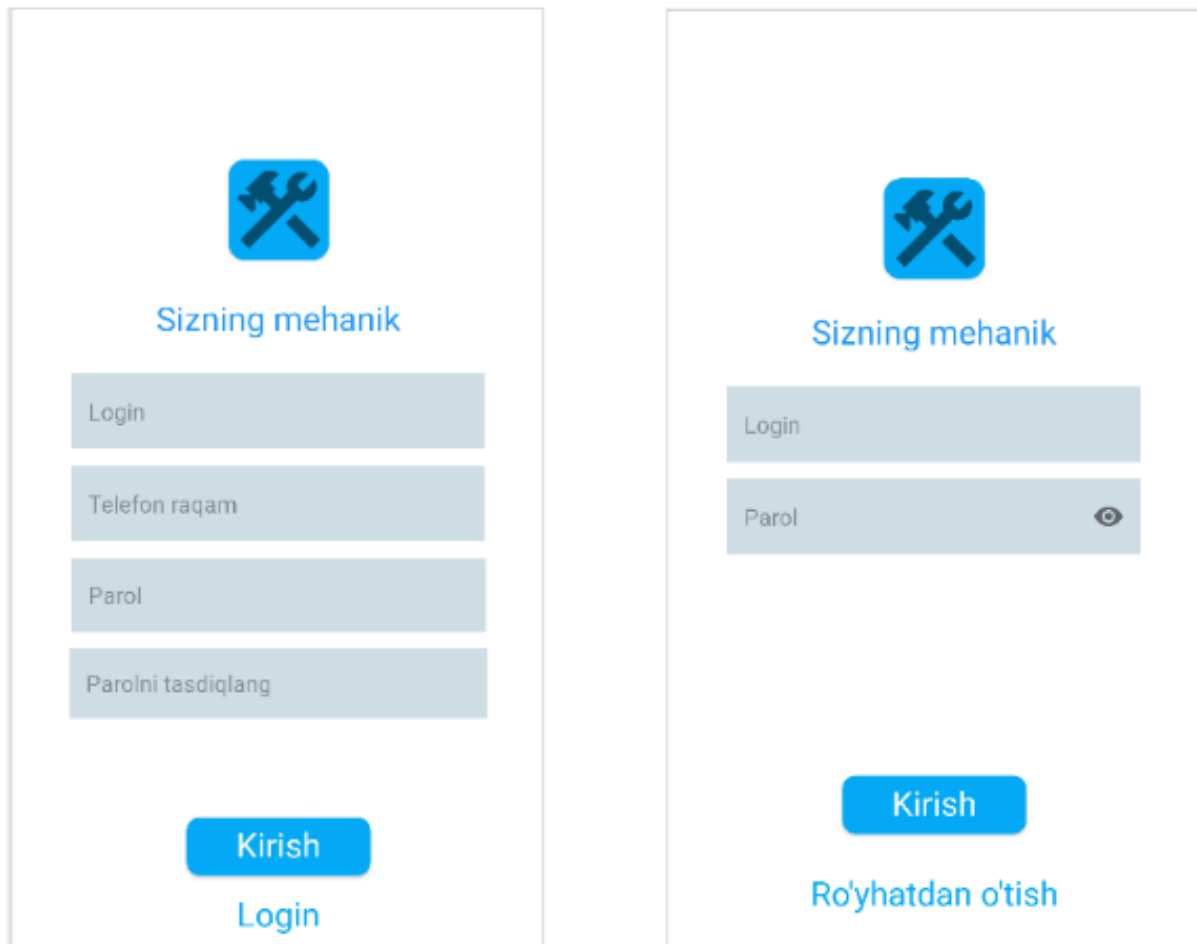

Figure 1. Registration and login window

A window of services provided to customers will open in the section of hiring technicians: they can search for technicians, get information about them, get samples of their work, and how much time and money will be required to complete the order, if it is a larger job, a team If lib requires work, it will be possible to get information about the busy schedule of the technicians so that they can use their service if they like. In addition, it will be possible to find service addresses and addresses of household appliances stores. [2]
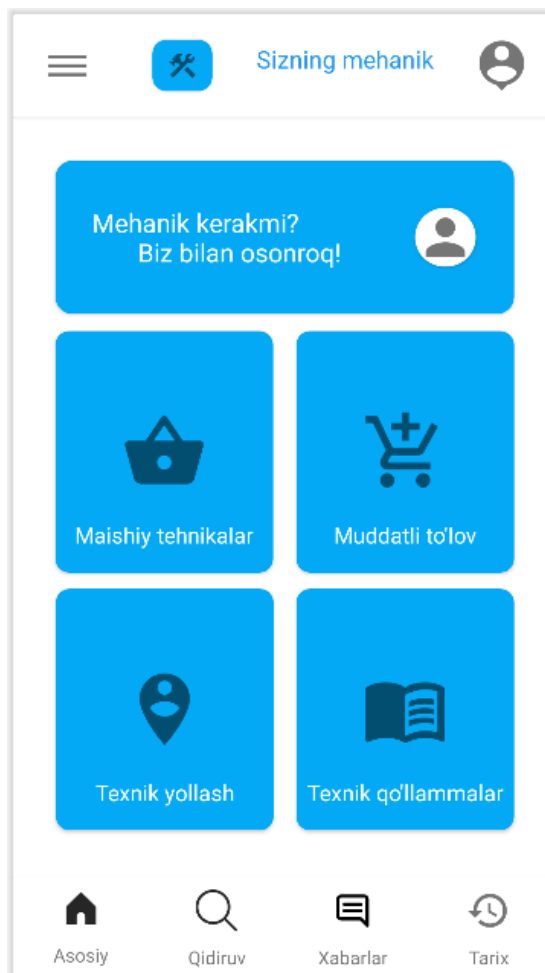
Figure 2. Main window

Technologies used to create the program:

✓ Android studio

✓ Kotlin

✓ firebase

Android Studio is based on JetBrains IntelliJ IDEA and is specially designed for Android application development. The official development environment for Google's Android operating system.

The Kotlin programming language and the Android Studio environment were used to create the software. The Kotlin programming language is currently the official programming language of Android Studio, and it can be said to be an improved version of Java. It is syntactically simpler and has more features compared to java, which brings convenience to programmers.

Firebase is a platform developed by Google for creating mobile and web applications. Cloud-Firestore is a flexible, scalable NoSQL cloud database for data storage and synchronization for clients and servers.

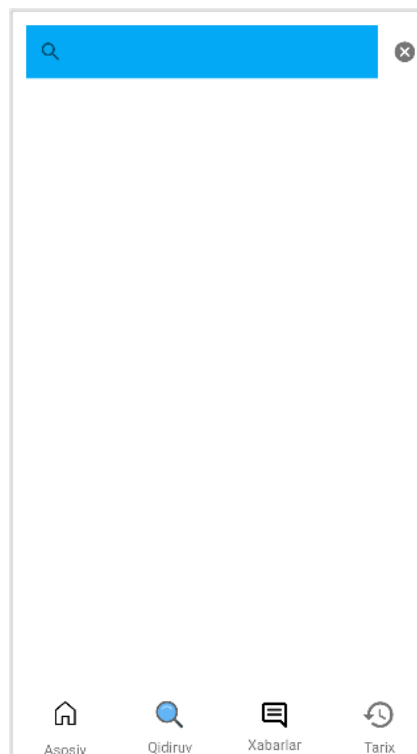There is also a search box, so the user can search for the technical or service center he needs.[3]

Figure 3. Search panel

Conclusion

In conclusion, it can be said that with the help of the mobile application created as a result of this research, people will be able to search for the closest household technical service centers to their area, or get acquainted with the recommended services to contact individual technicians. This study demonstrates the possibilities of using BIT methods to extract knowledge from thematic document collections. Prospects of using the proposed technology are to apply it to a large set of documents by selecting an informative set of symptoms.

References

1. G, Orosz, 2021. Building mobile apps at scale. First edition.

2. K, Makan, 2013. Android security cookbook. First edition. India. 350p.

3. E, Hellman, 2014. Android programming: pushing the limits. First edition. John Wiley & Sons Ltd, The Atrium, Southern Gate, Chichester, West Sussex, PO19 8SQ, United Kingdom.