

# Mobile applications and the digital transformation of healthcare.

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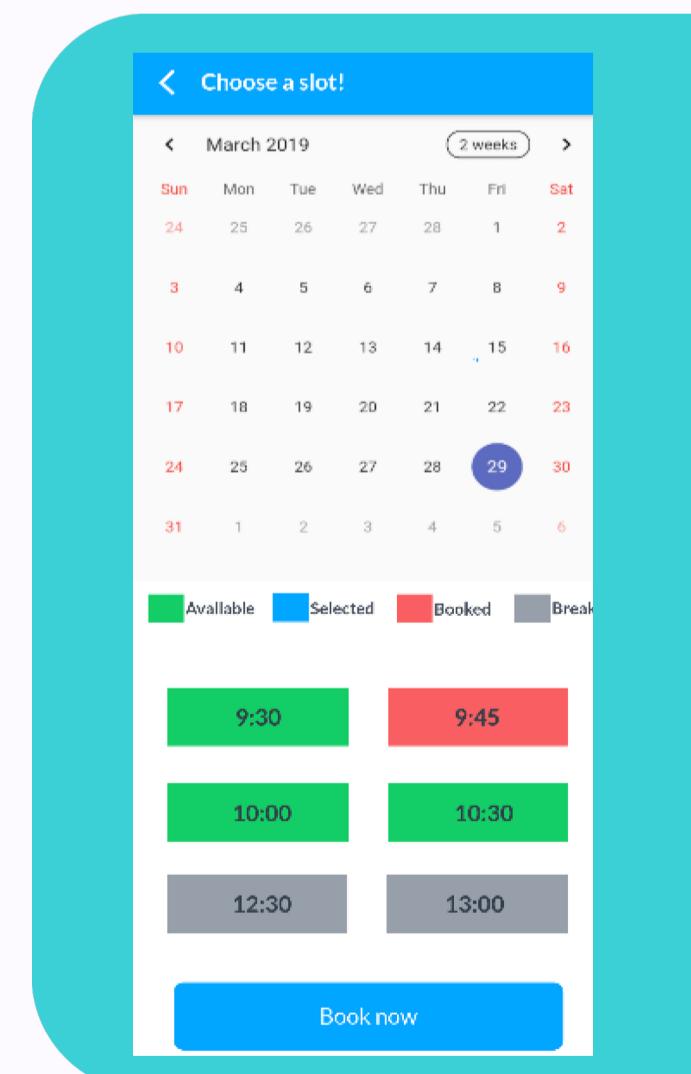
## Introduction

This project focuses on the development of a mobile application which allows and enables the patient to have a real-time scheduling of appointments with a doctor and gain valuable experience using different built-in features.

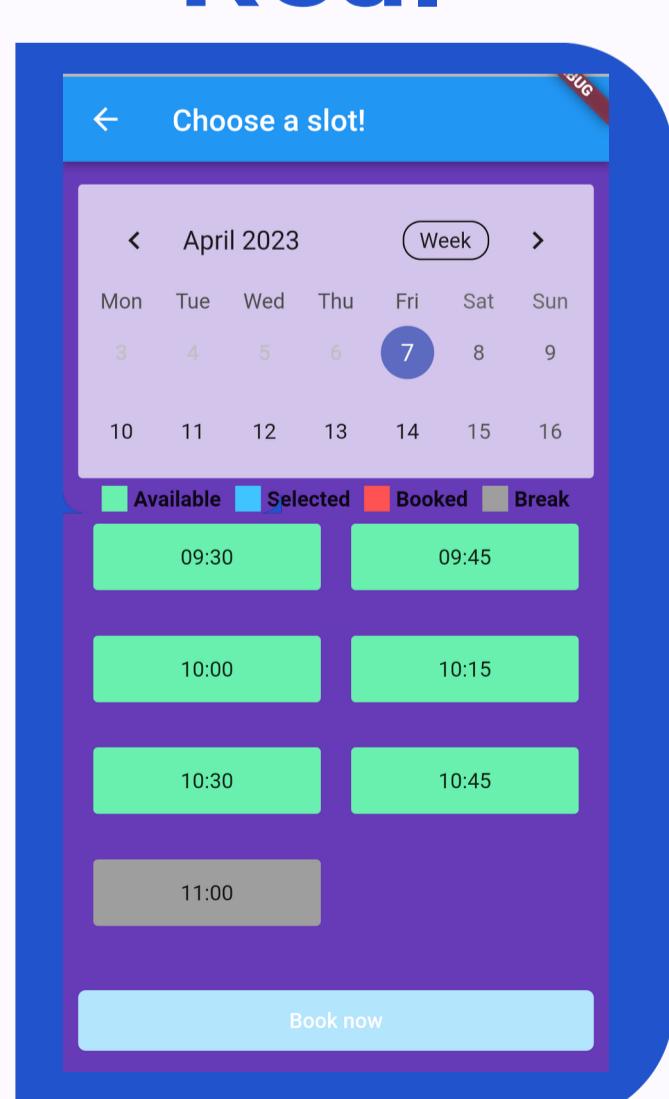
## Aims

Although we live in the Information Age, many people still search for prescribed medications or wait to see their doctors for extended periods of time. One of the main aims of the project is to replace the traditional queue management system in countries with low access to digital healthcare and thus ease the pressure on the reception. Moreover, the app is focused on improving the doctor-patient interaction and providing fast and adequate services. Allowing the user to upload their recent health records and useful medical information is a necessary tool for the medic to diagnose the condition and prescribe appropriate treatment during the procedure. My hope is that the application will bring current innovations to some developing countries and represent a good starting point for further developments and bringing the metaverse in healthcare.

## Mockup



Real



Document sample representing a booking model

## Methods

In order to come up with an intuitive and clean design, mockups have been created using the Marvel App. The technology stack used through the app development stage includes Flutter, Dart and Google Firebase

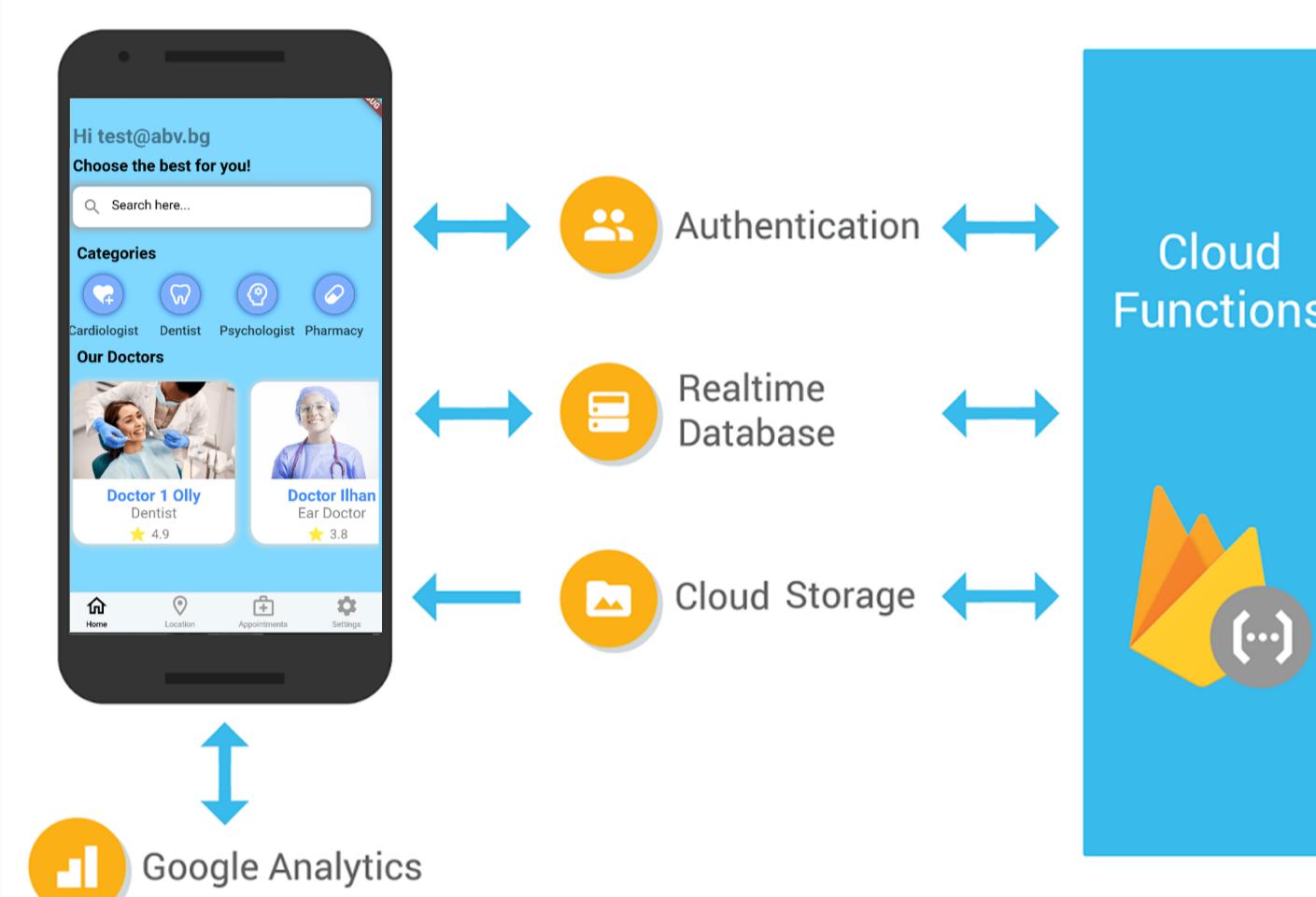
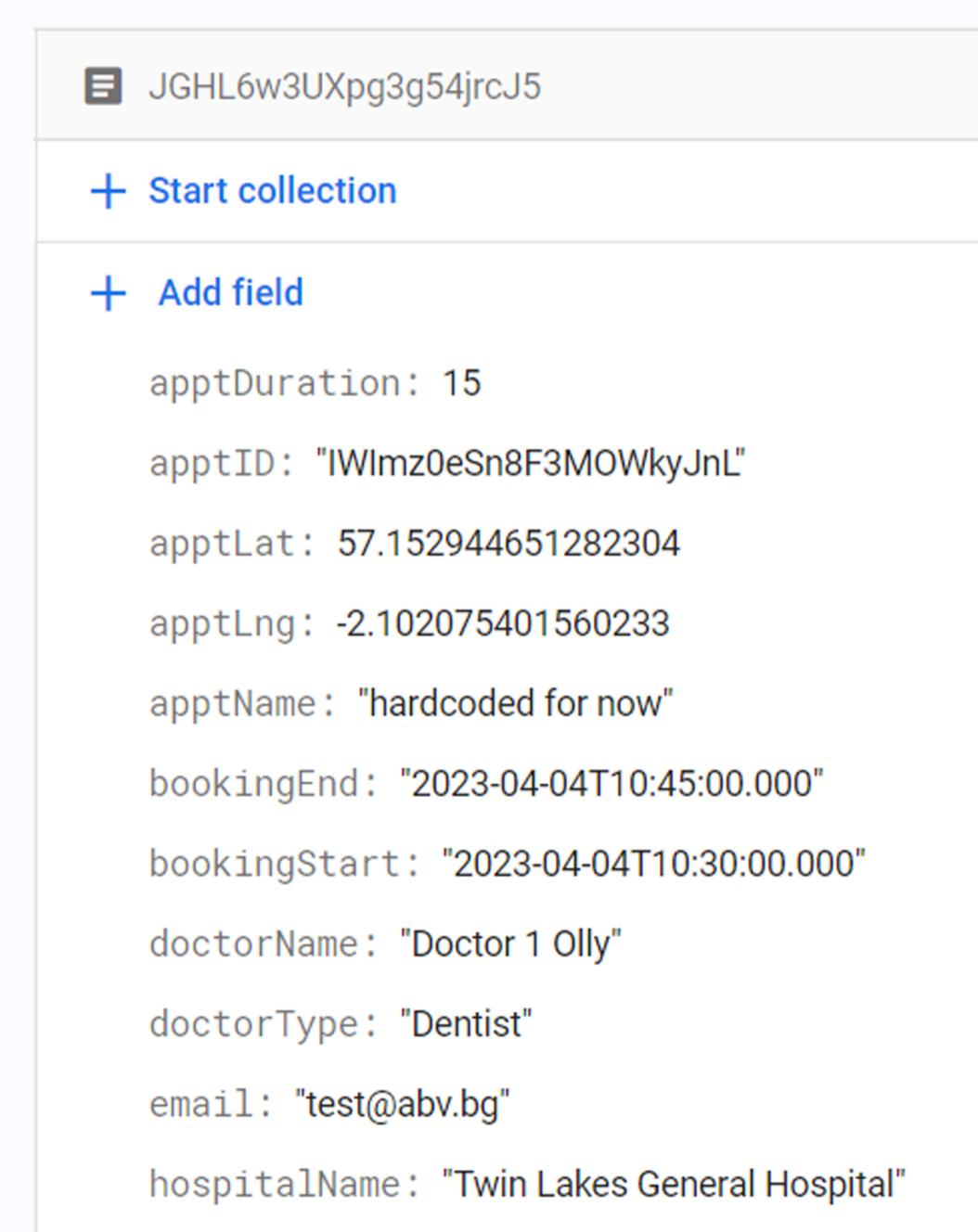


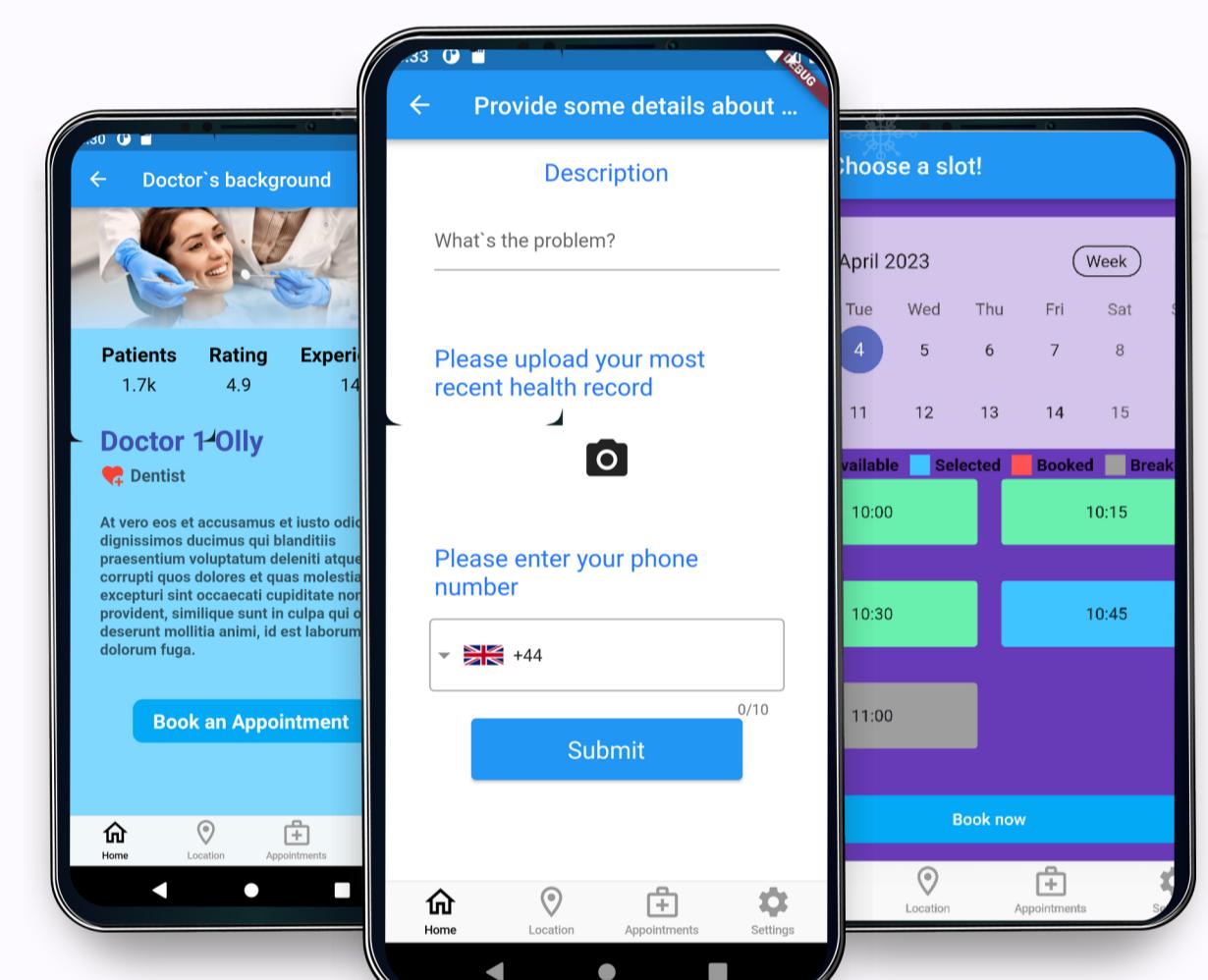
Diagram showing how the app and the database link together.

Furthermore, connecting Flutter with Firebase is a very powerful technological combination for creating highly scalable and up-to-date content. Using Flutter hot reload feature the app interface has been validated thoroughly with a series of testing criteria whereas the functionality has been tested using mobile app usability testing(including actual users).



## Conclusion

The project has been able to successfully offer convenient telemedicine services and bring together patients and physicians at any time. The mobile app gives the opportunity to maintain your health condition as well as use it in an emergency situation. The application provides useful information about different doctors including their background which is essential to good decision-making for the patient. To enhance user experience, each hospital's GPS coordinates have been linked with Google Maps for detailed information about the location.



If I was going to continue developing my project, I would like to implement Artificial Intelligence (AI) that predicts whether an appointment is likely to be missed based on a wide range of external insights such as weather, traffic and previous experience with that patient.

## Acknowledgments

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