

**A PROJECT REPORT**  
**on**  
**“KURIOUS\_HEALTHCARE APP”**

**Submitted to**  
**KIIT Deemed to be University**

**In Partial Fulfillment of the Requirement for the Award of**

**BACHELOR’S DEGREE IN**  
**COMPUTER SCIENCE & ENGINEERING**  
**BY**

<b>SAYANTAN DAS</b>	<b>1705456</b>
<b>LAKSHMI SRIVASTAVA</b>	<b>1705412</b>
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<b>DHRUV THAKUR</b>	<b>1705405</b>
<b>KUNAL DAWN</b>	<b>1705411</b>

**UNDER THE GUIDANCE OF**  
**PROF. BINDU AGARWALLA**



**SCHOOL OF COMPUTER ENGINEERING**  
**KALINGA INSTITUTE OF INDUSTRIAL TECHNOLOGY**  
**BHUBANESWAR, ODISHA - 751024**  
**May 2020**

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**May 2020**

# KIIT Deemed to be University

School of Computer Engineering  
Bhubaneswar, ODISHA 751024



## CERTIFICATE

This is certify that the project entitled  
“KURIOUS\_HEALTHCARE APP”  
submitted by

<b>SAYANATN DAS</b>	<b>1705456</b>
<b>LAKSHMI SRIVASTAVA</b>	<b>1705412</b>
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<b>KUNAL DAWN</b>	<b>1705411</b>

is a record of bonafide work carried out by them, in the partial fulfillment of the requirement for the award of Degree of Bachelor of Engineering (Computer Science & Engineering at KIIT Deemed to be university, Bhubaneswar. This work is done during year 2019-2020, under our guidance.

Date: 07/06/2020

**(PROF. BINDU AGARWALLA)**

Project Guide

## Acknowledgement

We are profoundly grateful to **PROF. BINDU AGARWALLA** for her expert guidance and continuous encouragement throughout to see that this project rights its target since its commencement to its completion.

SAYANATN DAS  
LAKSHMI SRIVASTAVA  
SATYABRATA MAHARANA  
DHRUV THAKUR  
KUNAL DAWN

## ABSTRACT

Every day millions & billions of people struggle to look for better health-care facilities. We are on the mission to help the mankind to live healthier and longer by putting up better health-care facilities at the earliest and easiest way.

Every now and then, people often fall sick and need to see Doctors or go for Lab Tests. Now, getting an Appointment for a Doctor is a tedious work.

In this project we introduce the **Kurious\_Healthcare App (KHA)**. The app looks to simplify health-care access and helps us to make health-care decisions. With search, we allow the users to find and take on the right health-care providers across doctors, hospitals, and other emergency contacts.

One need not stand in long queues for an appointments. Here, the gap between the consumers (which are usually the patients) and the appointment booking is the thing, we would like to minimize.

**Keywords:** health-care, hospital, diagnostics, emergency, appointments

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# Chapter 1

## **Introduction**

Every day millions & billions of people struggle to look for better health-care facilities. We are on the mission to help the mankind to live healthier and longer by putting up better health-care facilities at the earliest and easiest way.

This app looks to simplify health-care access and help us to make better health-care decisions.

With search, we are sure, one would be able to find and take on the right health-care providers across doctors, hospitals, and other emergency contacts.

One need not stand in long queues for an appointment! Here, the gap between the user (the patient) and the appointment booking is the thing we would minimize.



# Chapter 2

## **Software Requirements Specification**

### **2.1 Introduction**

#### **2.1.1 Purpose**

In this document we describe the software requirements for a yet unnamed mobile application, further referred to as the Kurios\_Healthcare App (KHA). The purpose of the Software Requirements Specification (SRS) is to specify the functionality, performance and interface requirements of the software project of KHA. The requirements will be shown in the written description to explain various concepts and different types of functionalities with relevant information.

#### **2.1.2 Product Scope**

The software of KHA is responsible in making the people to take better health-care decisions and health related issues. This also helps the people in finding the better suggestions regarding health from the best doctors. Every day many people suffer with many of the health problems or for better health-care. By this app, people start finding help from the best doctors which can be managed by single health care account for the entire family. It also secures all the sensitive information regarding the health-care data so as to make better health-care decisions.

This app is looking to simplify health-care access and help you to make health-care decisions. With search, we help you to find and decide on the right health-care providers across doctors, hospitals, diagnostics and other emergency contacts.

#### **2.1.3 Feasibility Study**

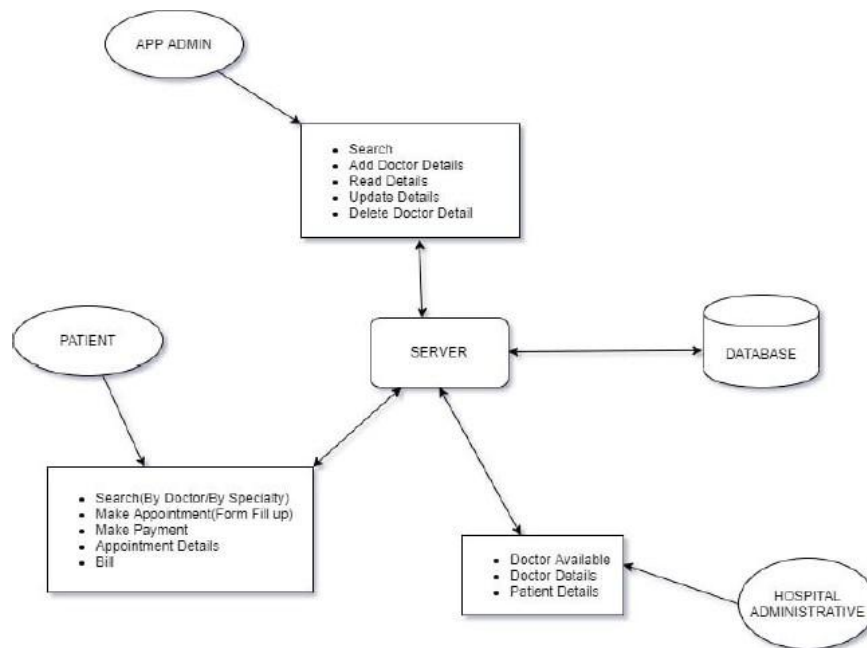
The overall scope of the feasibility study was to provide sufficient information to allow a decision to be made as to whether the KHA App should proceed and if so, its relative priority in the context of other existing online health-care systems. The feasibility study phase of this project had undergone through various steps which as describe as under:

- Identity the origin the information at different level.
- Identity the expectation of user from computerized system.
- Analyze the drawback of existing system (manual system)

## 2.2. Overall Description

This section describes the functions, aims and objectives of the projects. It also includes the constraints and requirements of the project.

### 2.2.1 Product Perspective



The KHA App is a Flutter based application which runs independent of OS. This project will be useful for patients, his/her representatives or affiliates. At present, the appointments for doctors' consultation are generally made through phone call to nearby clinics and hospitals or by physically visiting to the same, which is very expensive in terms of time and cost of travel, etc. To resolve this issue an application is developed and this application is mainly targeted towards the patients (in medical terms). In this project the patient is registered by the admin. The patient then, can check out clinics and hospitals nearby location and can book appointments for their respective doctors in slots.

### 2.2.2 Product Functions

The application functions are as follows:

- On clicking the Kurious Health-care (KHA) app, a sign-in screen is displayed. The user/customer/patient will sign in using OTP authentication.
- Now, user has signed in and a home screen is displayed with the several tabs on the sidebar navigation Menu: User Profile, Nearby hospitals/clinics, Book Appointments, History, Emergency Contacts, Payment, Doctors' View & Logout .
- Nearby Hospitals button shall display list of hospitals along with the ratings.
- Book Appointments button will allow the user to go for appointments with their respective doctors.
- History shall show the previous appointments made (if any).
- Payment button will allow the user to pay remaining dues (if any).
- Doctors' View will enable any doctor to check patients lined-up.
- Logout will allow the user to sign out of the App.

---

# Chapter 3

## Requirement Analysis

### 3.1 User Interfaces

The software provides good graphical interface for the user. Any authorized user can access the functionalities of the software such as searching for the availability of KHA services, doctors profile, appointments and also health-care clinics and find other emergency contacts.

#### 3.1.1 Functional Requirements

- **Admin-functionalities**
  - **Module-I : Admin Login**  
INPUT: Mobile No. And allocated OTP  
OUTPUT: Displays a message if username and password does not match otherwise enter into the home page.  
PROCESS: Match username and password from the database.
  - **Module-II: Update Database.**  
INPUT: Read, Add, Delete, Update details of Doctors/Clinics/Hospitals.  
OUTPUT: Changes made Successfully!  
PROCESS: Updation of Database.
- **User-Functionalities**
  - **Module-I : User Login.**  
INPUT: Mobile No. And OTP sent for authentication  
OUTPUT: Displays a message if username and password does not match otherwise enter into the home page.  
PROCESS: Match username and password & check for valid user.
  - **Module-II: Search.**  
INPUT: Name of Doctor/Hospital/Clinic.  
OUTPUT: List of items that match the specific search of the user.  
PROCESS: Ordering/Viewing of items according to the User.
  - **Module-III : Make Appointment & Payment.**  
INPUT: Appointment slot for booking for consultation and advance payment  
OUTPUT: Appointment Booked/ Confirmed!  
PROCESS: Appointment Booking for the user.
- **Hospital/Doctor-Functionalities**
  - **Module-I : Login.**  
INPUT: Mobile No. And OTP same as Unique\_Id associated with Hospital  
OUTPUT: Displays a message if username and password does not match otherwise enter into the home page.  
PROCESS: Match username and password & check for valid user.
  - **Module-II: View Details.**  
INPUT: Name of Doctor/Hospital/Clinic.  
OUTPUT: Doctors' names and patients lined-up for respective Doctors.  
PROCESS: Viewing daily lined-up details of a particular Hospital.

### 3.2 Hardware Interfaces

- The App will run on any Android/iOS mobile/phone or tablet. The following are the requests are supported by the API:
  - Doctor Details Provides access to profiles of doctors
  - Practice Details Provides access to profile of practices of doctors
  - Search Allows you to query practices and doctors within a city with a wide range of filters

### 3.3 Software Interfaces

- OS – Windows 7 or above
- Tools – Visual Studio Code 1.44, Google Fire-base
- Platform: Flutter SDK framework Version 1.0.0+1
- IDE: Visual Studio IDE
- Emulator: SDK Version  $\geq 2.1.0 < 3.0.0$
- Technologies Used: Dart, OTP generating tech using firebase.
- Database: MySQL

### 3.4 Other Nonfunctional Requirements

#### 3.4.1 Performance Requirements

The capability of the computer depends on the performance of the software. The software can take any number of inputs provided the database size is larger enough. This would depend on the available memory space

#### 3.4.2 Security Requirements

Security requirements placed restrictions on the modification of any part of the application by the Hospital authorities and the control access to the data, provide different kinds of requirements to different people, require the use of passwords. It would require proper programming techniques.

# Chapter 4

## System Design

### 4.1. Purpose

The purpose of the System Design process is to provide sufficient detailed data and information about the system and its system elements to enable the implementation consistent with architectural entities as defined in models and views of the system architecture. In our case, the hospital system software covers the services that unify and simplify the work of health-care professionals as well as their interactions with patients.

### 4.2 Major Tasks Performed During the System Design Process

#### 4.2.1 Initialize design definition

The technologies that will compose and implement the systems elements and their physical interfaces are:

- \* **Flutter:** Google's UI toolkit for building beautiful, natively compiled applications for mobile, web, and desktop from a single codebase.
- \* **DART:** It is a client-optimized language for fast apps on any platform (iOS or Android).
- \* **Google Firebase:** Firebase gives functionalities like analytics, databases, messaging and crash reporting.
- \* **Visual Studio Code:** Visual Studio Code is a source-code editor for Windows, Linux and mac-OS. Features include support for debugging, syntax highlighting, intelligent code completion.

#### 4.2.2 Establish design characteristics

We create a database of doctors' lists across various premiere hospitals in India as well as across various specialties. We then incorporate this database and its working characteristics into a mobile application. We also maintain a database of users (usually the patients and doctors) who are logged into the system.

#### 4.2.3. Manage the design

Finally, we assess and control the evolution of the design characteristics. For instance, we build an interface which facilitates communications between the patient and the doctors as well enable a payment transaction to be made via a secure application (Paytm in our case).

## Chapter 5

### System Testing

The following test cases have been performed and the results have been obtained after repeated testing of the cases.

#### 5.1 Test Cases and Test Results

Test ID	Test Case Title	Test Condition	System Behavior	Expected Result
T01	OTP auto-validation	Valid OTP detection	Validated automatically	Automatic Validation
T02	Appointment Form Phone Number	Phone number must be of 10 digits	Detected Correctly	Phone number must be of 10 digits.
T03	Appointment Form Date of Booking	Must be of year greater than 2020	Detected valid and invalid dates correctly	Detect Proper date of Appointment
T04	Appointment Form Blood Group	Either of A+,A-, B+,B-,AB+,AB-,O+,O-	Detected Correctly for any other invalid Blood Group	Invalid for any Blood Group entered other than the test condition
T05	Payment Validation	Payment Successful or Failed	Correctly Detected as Payment page is a Bank Demo	Confirm if Payment is successful or go back if failed.
T06	Emergency Form Button Call	Clicking on any button of Emergency No. Should place a call	Yes, redirected to Dialler.	Redirection from App to Call Dialler.
T07	Info Card Display and Call Hospital	Info card to be displayed on clicking the "I" option	Successful	Display details of hospital and allow call facility.

Note: Testing should be performed manually

# Chapter 6

## Project Planning

### 6.1 Analyze Business Case

With search, we help one would be able to find and decide on the right health-care providers across doctors, hospitals, diagnostics and other emergency contacts. One need not stand in long queues for an appointment! Here, the gap between the user (the patient) and the appointment booking is the thing we would minimize.

### 6.2 Product Scope

The software of KHA is responsible in making the people to take better health-care decisions and health related issues. This also helps the people in finding the better suggestions regarding health from the best doctors. By this app, people start finding help from the best doctors which can be managed by single health care account for the entire family. This app is looking to simplify health-care access and help you to make health-care decisions. With search, we help you to find and decide on the right health-care providers across doctors, hospitals, diagnostics and other emergency contacts.

### 6.3 Goals/Project Schedules & Milestones

Goal is to first make the Appointment Booking of different doctors from different hospitals.

Project Schedule:

- Google Firebase renovation/configuration for OTP, Database and Payment.
- Login Page
  - ✓ OTP validation
- Dashboards
  - ✓ Hospital Dashboard
  - ✓ Specialty Dashboard
  - ✓ Doctors' Selection Dashboard
  - ✓ Emergency & Terms and conditions Dashboards
- Appointment Booking
  - ✓ Appointment Form
  - ✓ Appointment confirmation page
- Payment Gateway

## 6.4 Assignment of Tasks

Team Member Assignments:

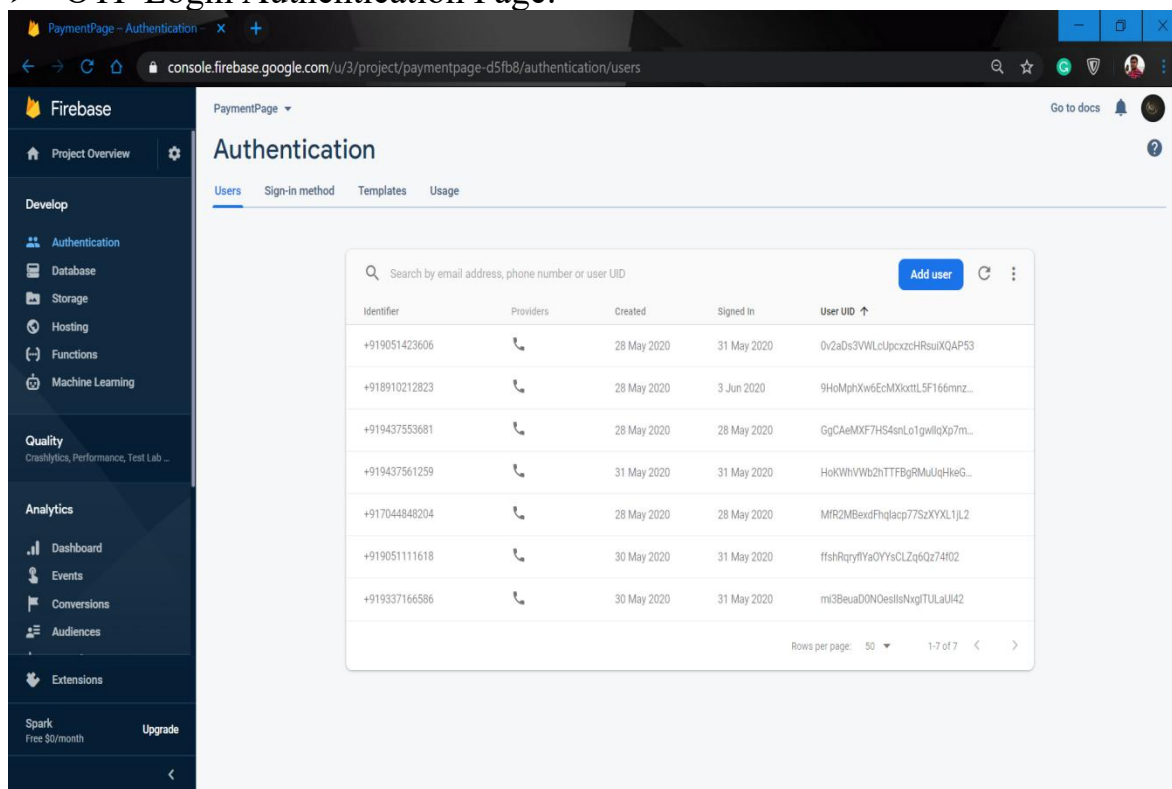
- Dhruv Thakur & Kunal Dawn: Preparation Of Database
- Lakshmi Srivastava & Satyabrata Maharana: Database Linkage and All Dashboard Coding in Flutter & Dart Platform.
- Sayantan Das: Login page, OTP validation using Firebase and Paytm Payment Gateway.

## Chapter 7

## Implementation

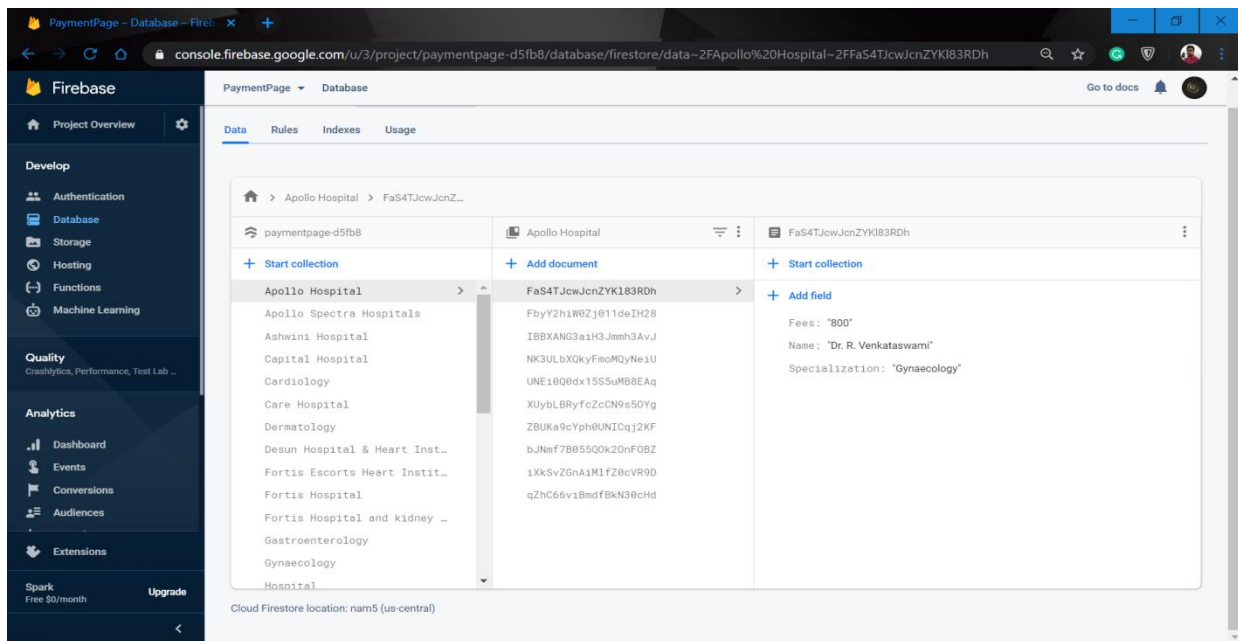
### 7.1 Database Implementation:

#### ➤ OTP Login Authentication Page:

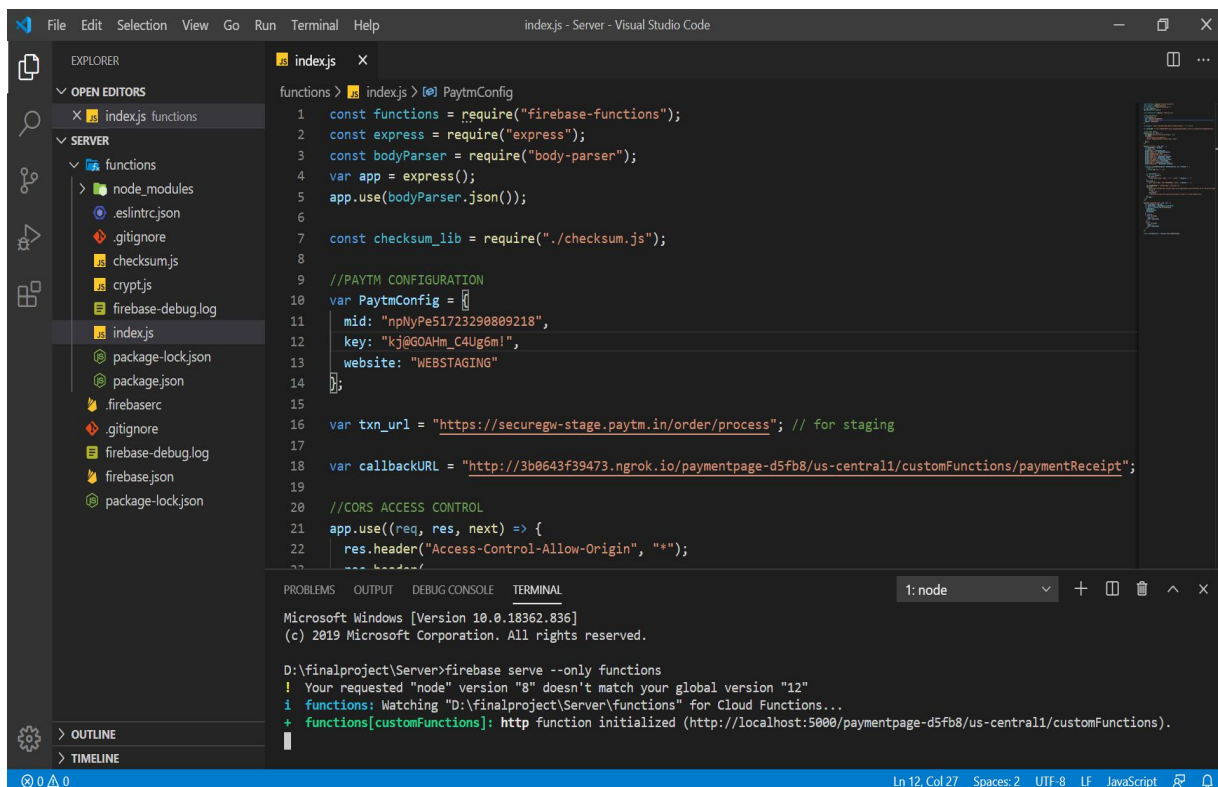




## ➤ Dashboards:



## 7.2 Payment Server Running on Portable Host using Ngrok.exe:



```

functions > index.js > PaytmConfig
1  const functions = require("firebase-functions");
2  const express = require("express");
3  const bodyParser = require("body-parser");
4  const app = express();
5  app.use(bodyParser.json());
6  app.use(bodyParser.urlencoded({ extended: true }));
7  app.get("/", (req, res) => {
8    res.send("Hello World!");
9  });
10 app.listen(5000, () => {
11   console.log("Server is running on port 5000");
12 });
13
C:\Users\KIIT\Downloads\ngrok-stable-windows-amd64\ngrok.exe - ngrok.exe http 5000
ngrok by @inconshreveable
Version: 2.3.35
Session Status: online
Session Expires: 7 hours, 59 minutes
Region: United States (us)
Web Interface: http://127.0.0.1:4040
Forwarding: http://7b13aefc29ea.ngrok.io -> http://localhost:5000
              https://7b13aefc29ea.ngrok.io -> http://localhost:5000
Connections:
  ttl      opn      rt1      rt5      p50      p90
    0       0       0.00    0.00    0.00    0.00
  
```

7.3 All the codes starting from Login Page until the Payment Page have been written in DART Code language and Flutter as SDK so that it is portable and one language for all-Web,Android & iOS.

The Entire code has been divided into 31 Dart Files excluding the Server.

## Chapter 8

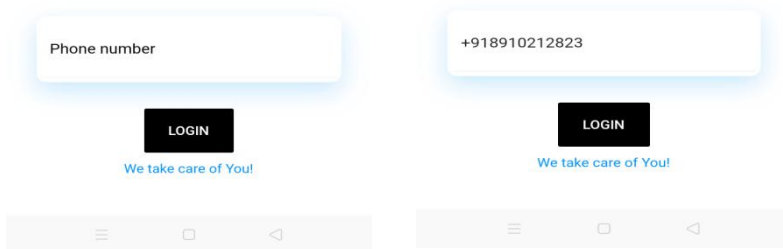
### Screen shots of Project

#### 8.1 The Login Page & OTP Authentication Page



A Login Page is displayed as soon as the User Clicks on the App Icon.

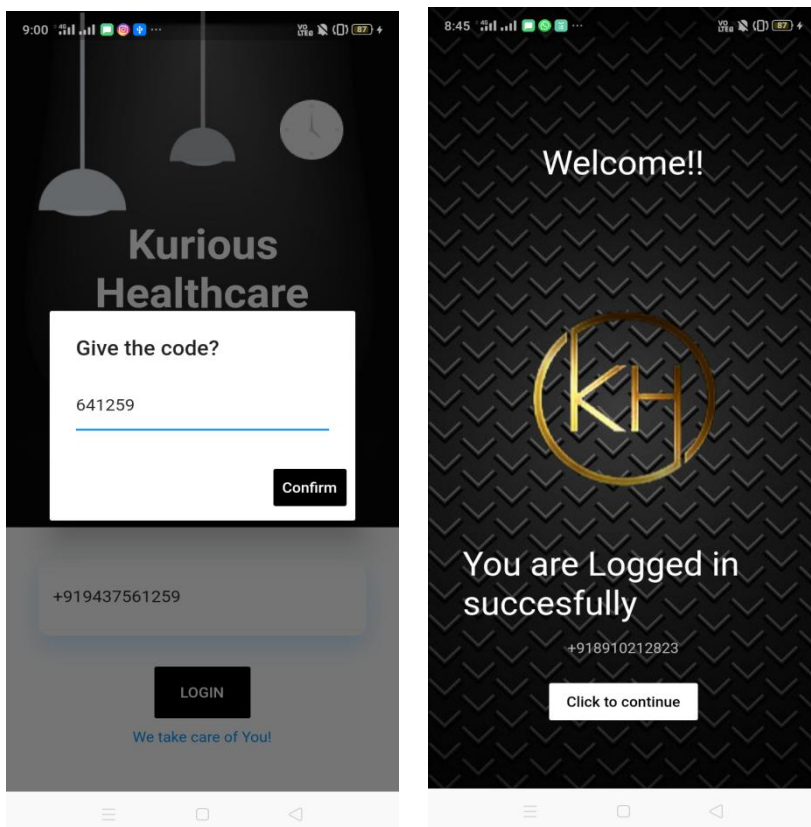
The User has to enter The Mobile No. and click on the Login Button.



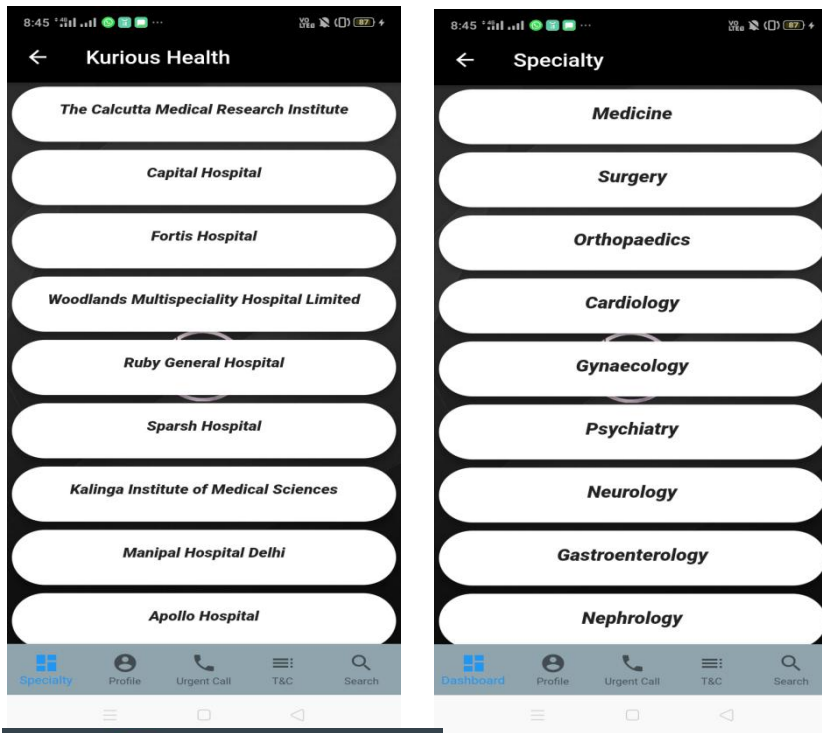
After entering the Phone number, a verification code will be send through sms. (Using the Google Firebase)

User have to type the verification code in the Pop-up Window on the screen and then Click on the “Confirm”.

If the entered code is a valid verification, A welcome page is displayed.



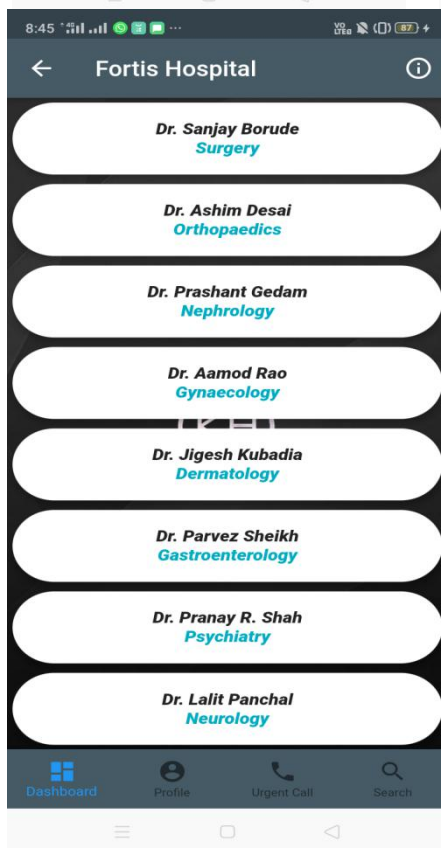
## 8.2 The Dashboard



We allow the user to Choose Doctors based on two options:

Hospitals  
Specialty

And hence, we have these two varieties of Dashboards.

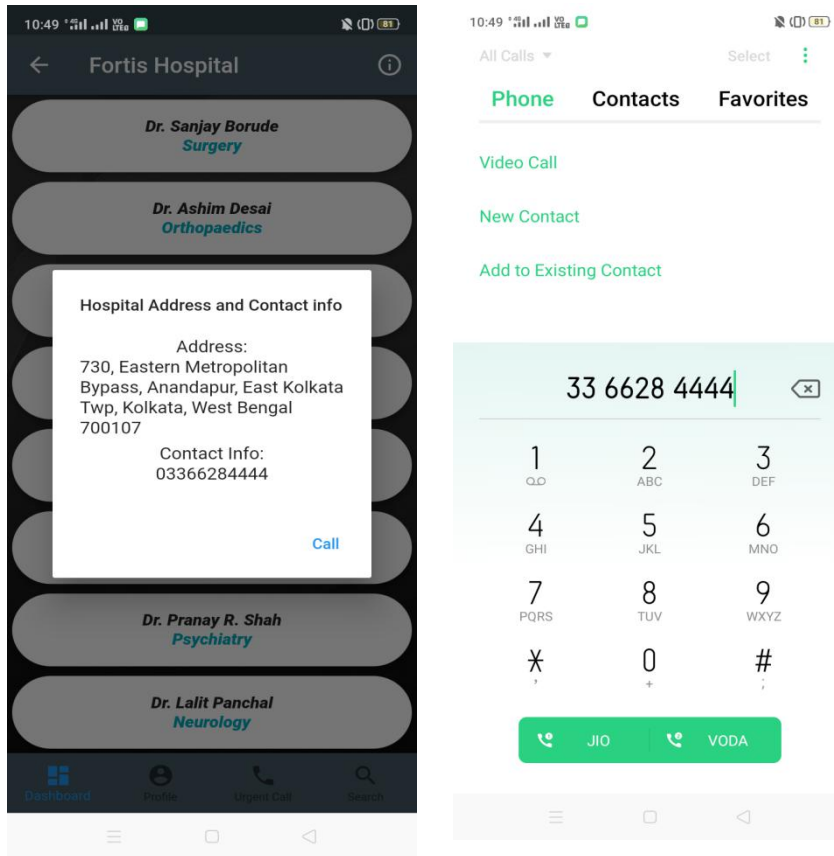


Now, we present you the Doctor's List:

1. On the left-hand side, The screenshot resembles the List of Doctors of a particular Hospital chosen in the previous Stage.

2. On the right-hand side, The screenshot resembles the List of Doctors of a particular Specialty.

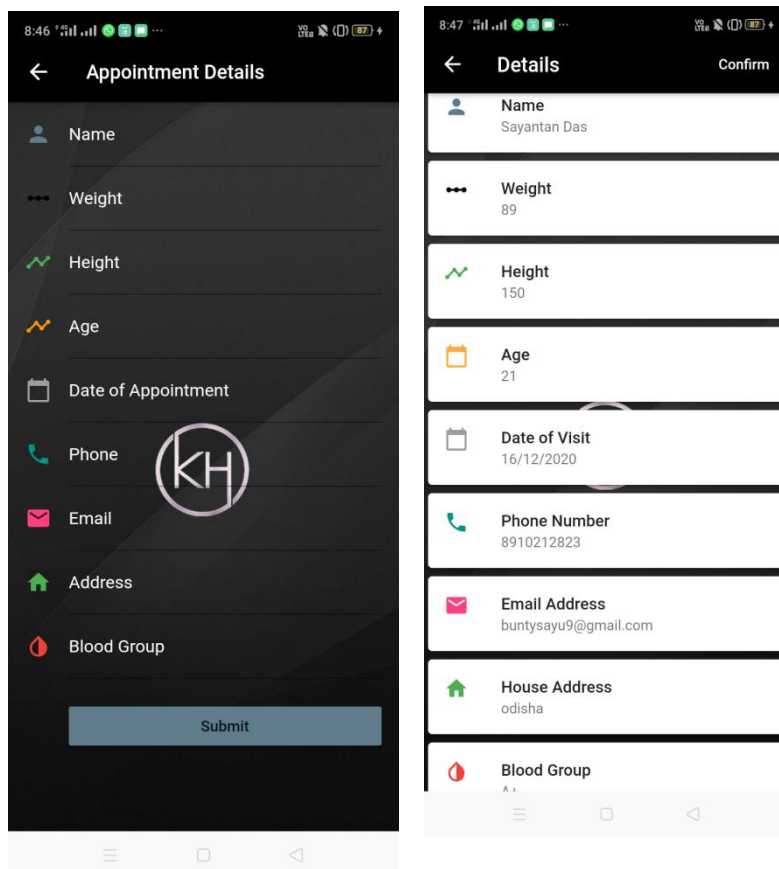




We give you the option of Checking out Details of the Hospital by clicking on the “info” icon on the Top-Corner. You get the Address and the Contact Info of the Hospital.

Surprisingly, We allow you to call the Hospital instantly by clicking on the “Call” Button!!

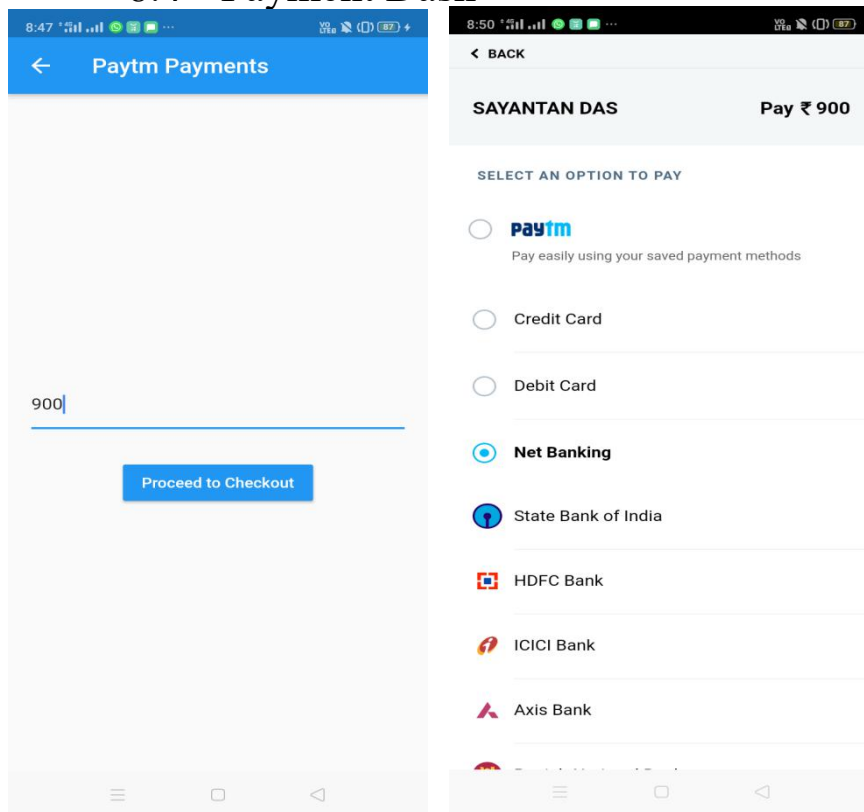
### 8.3 Appointment Booking



Now, the user needs to book an Appointment and hence, needs to fill up a Form. After the Form has been filled up, we display the details to be Confirmed by the user!

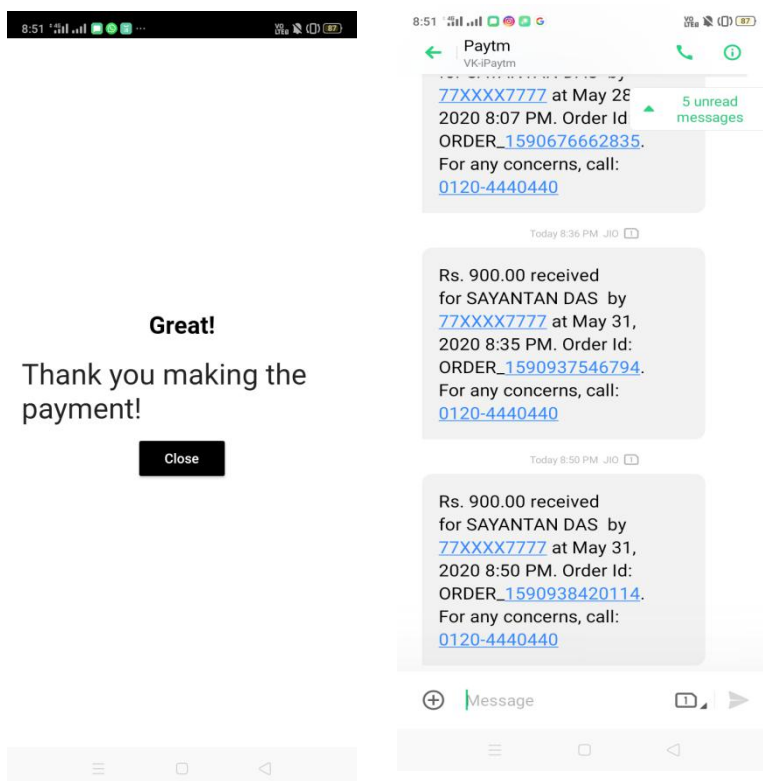


## 8.4 Payment Dash



After filling appointment details successfully, the user has to make payment for the appointment by selecting suitable means of payment mode.

And here we use the Paytm Payment API created by the Paytm.



After Payment:

If Successful: We show the Payment Confirmation Page and the Admin receives the amount.

If not, We Show the Error and the user has to repeat the Process.

## Chapter 9

# Conclusion and Future Scope

### 9.1 Conclusion

We have successfully implemented the Appointment Booking System in the Kurious-health care App. Since the entire App has been built on Flutter SDK, it's easily portable and the same code can run on Web-View, android or iOS platforms, making it highly feasible. The level of sophistication is very low and hence making the UI/UX very user-friendly. The project can also be subjected to standardization and hence has a good future scope.

### 9.2 Future Scope

In Future, we would like to add up the Following Elements to the Kurious Health Care App:

- Lab Tests Appointment
- Online Video Doctor Consultation
- Medicine Ordering facilities
- Facilities of ICU Bookings.
- Record of Blood Bank Details.

Also, there will be UI/UX changes to make it as simple as possible for the user to interact with the App. We are also planning to launch few features such as:

- Security features
- Google Map Location Detection

## References

**All references should be numbered and cited in the content.**

[1] IEEE 830 PAPER

[2] <https://www.slideshare.net/>

[3] <https://www.coursehero.com/>



## **INDIVIDUAL CONTRIBUTION REPORT:**

### **KURIOUS-HEALTHCARE APP**

SAYANTAN DAS  
1705456

**Abstract:** In this project we introduce the **Kurious\_Healthcare App (KHA)**. The app looks to simplify health-care access and helps us to make health-care decisions. With search, we allow the users to find and take on the right health-care providers across doctors, hospitals, make appointment bookings and other emergency contacts.

**Individual contribution and findings:** I was involved in the technical aspect of developing the App on Flutter SDK. I was given the responsibility of generating the Login Page with OTP Authentication and also creating the Payment Gateway after the Appointment form has been filled up.

Technical learning and findings include:

- Working with Flutter SDK
- How to work with Google Firebase accounts for OTP authentication
- Generate SHA-1 fingerprints
- Use of Paytm Payment Gateways and Business API
- Working and use of Ngrok Software.

### **Individual contribution to project report preparation:**

Chapters Contributed:

- Chapter 7: Implementation
- Chapter 8: Screen-shots of the Project.

### **Individual contribution for project presentation and demonstration:**

In presentation, I demonstrated the working of OTP and Payment gateway pages and the back-end part for the respective Section.

Full Signature of Supervisor:

.....

Full signature of the student:

Sayantan Das.

## INDIVIDUAL CONTRIBUTION REPORT:

### KURIOUS-HEALTHCARE APP

SATYABRATA MAHARANA  
1705453

**Abstract:** In this project we introduce the **Kurious\_Healthcare App (KHA)**. The app looks to simplify health-care access and helps us to make health-care decisions. With search, we allow the users to find and take on the right health-care providers across doctors, hospitals, make appointment bookings and other emergency contacts.

**Individual contribution and findings:** I was involved in the technical aspect of developing the App on Flutter SDK. I was given the responsibility of generating the Dashboard Page for ‘selecting Doctors according to a given Hospital’, the Appointment Booking Form and the Emergency Page.

Technical learning and findings include:

- Working with Flutter SDK
- How to work and access Google Firebase Database.
- Generate SHA-1 fingerprints
- Working with Flutter widgets such as Cards, List-View and Tiles.

### Individual contribution to project report preparation:

Chapters Contributed:

- Chapter 5: System Testing
- Chapter 6: Project Planning.

### Individual contribution for project presentation and demonstration:

In presentation, I demonstrated the working of Hospital Dashboard, Appointment form and Emergency pages and the back-end part for the respective Section.

Full Signature of Supervisor:

.....

Full signature of the student:

Satyabrata Maharana.

## **INDIVIDUAL CONTRIBUTION REPORT:**

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LAKSHMI SRIVASTAVA  
1705412

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**Individual contribution and findings:** I was involved in the technical aspect of developing the App on Flutter SDK. I was given the responsibility of generating the Dashboard Page for ‘selecting Doctors according to a given Specialty’, the Appointment Booking Form and the ‘Terms and Condition Page’.

Technical learning and findings include:

- Working with Flutter SDK
- How to work and access Google Firebase Database.
- Generate SHA-1 fingerprints
- Working with Flutter widgets such as Cards, List-View and Tiles.

### **Individual contribution to project report preparation:**

Chapters Contributed:

- Chapter 7: Implementation
- Chapter 5: System Testing
- Chapter 6: Project Planning.

### **Individual contribution for project presentation and demonstration:**

In presentation, I demonstrated the working of Specialty Dashboard, Appointment and Terms and Conditions pages and the back-end part for the respective Section.

Full Signature of Supervisor:

.....

Full signature of the student:

Lakshmi Srivastava.

## INDIVIDUAL CONTRIBUTION REPORT:

### KURIOUS-HEALTHCARE APP

KUNAL DAWN  
1705411

**Abstract:** In this project we introduce the **Kurious\_Healthcare App (KHA)**. The app looks to simplify health-care access and helps us to make health-care decisions. With search, we allow the users to find and take on the right health-care providers across doctors, hospitals, make appointment bookings and other emergency contacts.

**Individual contribution and findings:** I was involved in the technical aspect of working on Google Firebase Console. I was given the responsibility of Creating consoles and projects on Google Firebase and Generating .json files for Flutter SDK pubsec.yaml dependency settings. Also prepare database for the App.

Technical learning and findings include:

- Working with Google Firebase Console
- Generate .json files from firebase
- Learn various flutter Dependencies
- Preparation of Database in Google Firebase.

### Individual contribution to project report preparation:

Chapters Contributed:

- Chapter 2: SRS
- Chapter 3: Requirement Analysis.
- Chapter 4: System Design

### Individual contribution for project presentation and demonstration:

In presentation, I demonstrated the view of Database and also the Working of the Server Section.

Full Signature of Supervisor:

.....

Full signature of the student:

Kunal Dawn.

## INDIVIDUAL CONTRIBUTION REPORT:

### KURIOUS-HEALTHCARE APP

DHRUV THAKUR  
1705405

**Abstract:** In this project we introduce the **Kurious\_Healthcare App (KHA)**. The app looks to simplify health-care access and helps us to make health-care decisions. With search, we allow the users to find and take on the right health-care providers across doctors, hospitals, make appointment bookings and other emergency contacts.

**Individual contribution and findings:** I was involved in the technical aspect of working on Google Firebase Console. I was given the responsibility of Creating consoles and projects on Google Firebase and also the UI/UX part of the App. Also given responsibility to prepare database for the App.

Technical learning and findings include:

- Working with Google Firebase Console
- Learn various flutter Dependencies
- Preparation of Database in Google Firebase.
- Designing Widgets of Flutter.

### Individual contribution to project report preparation:

Chapters Contributed:

- Chapter 2: SRS
- Chapter 3: Requirement Analysis.
- Chapter 9: Conclusion & Future-Scope.
- References and Tutniti Plagiarism Report.

### Individual contribution for project presentation and demonstration:

In presentation, I demonstrated the view of Database and explained the SRS,DFD flow of Diagrams in the report.

Full Signature of Supervisor:

.....

Full signature of the student:

Dhruv Thakur.

**TURNITIN PLAGIARISM REPORT**  
**(This report is mandatory for all the projects and plagiarism must be below 25%)**

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