

A CENTER FOR INTER-DISCIPLINARY RESEARCH 2021-22

TITLE

HOSPITAL APPOINTMENT MANAGER

SUPERVISED BY

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(A Center For Inter-Disciplinary Research)

This is to certify that the project titled

"HOSPITAL APPOINTMENT MANAGER"

is a bonafide work carried out by the following students in partial fulfilment of the requirements for Advanced Academic Center intern, submitted to the chair, AAC during the academic year 2021-22.

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This work was not submitted or published earlier for any study

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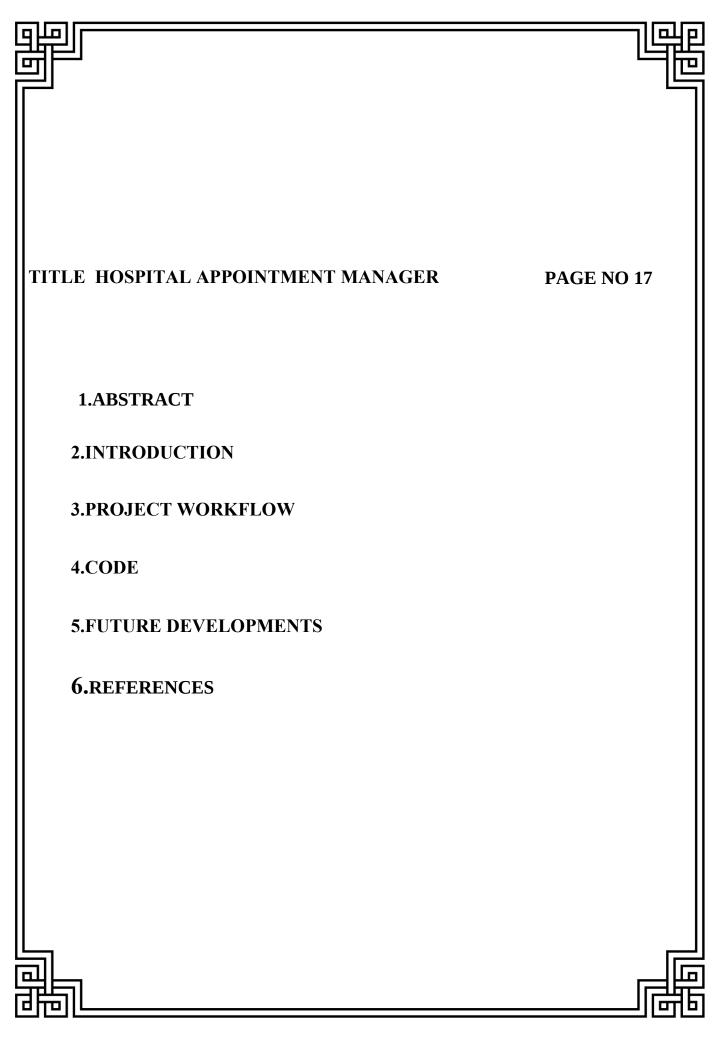
We express our deep sense of gratitude to our respected Director, Gokaraju Rangaraju Institute of Engineering and Technology, for the valuable guidance and for permitting us to carry out this project.

With immense pleasure, we extend our appreciation to our respected Principal, for permitting us to carry out this project.

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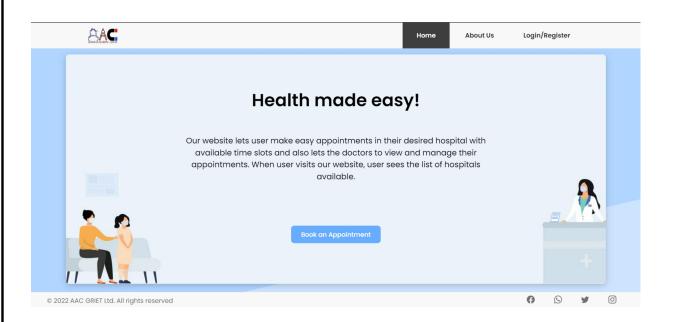
We are indebted to all the above mentioned people without whom we would not have concluded the project.



ABSTRACT:

The problem to book an appointment for a hospital is that people face many difficulties while booking an appointment which includes waiting in a queue, busy signals. If patient scheduling is only available by phone, your front office staff likely spends most of their day answering calls. Booking appointments isn't a task that requires a human touch, so it's not an efficient use of their time.

Creating a website in which we can book an appointment in required time slot, in our desired hospital makes it easy for patients to go and consult a doctor without a third person involvement.



INTRODUCTION:

Web Development:

Web development involves the creation and maintenance of websites. Modern web development also includes web applications. Web applications are software packages that run on a web server and are accessed through the internet. This is unlike a traditional application that runs on your computer, tablet, or phone.

There are Front-end and Back-end developers in web development. Front-end web development has to do with the interface that you, the user, interact with when you visit a website or use a web application. Front-End Developers create everything you see on a web page, including:

- Colors
- Layout
- Navigation

Back-end web development has to do with the parts of a website that you cannot see, particularly how website information is stored and retrieved. While loading a webpage for

the first time or sign into a website with a username and password, it is the work of Back-End

Developers to make it possible to access website information efficiently and securely.

Framework?

A Web framework (WF) supports the creation, development, and publishing of web applications and web sites. This can include web services, APIs, and other resources. Web frameworks are software frameworks that offer a standard and accessible way to build and

develop web applications.

Types of Frameworks:

- Angular
- Django
- Laravel

HOSPITAL APPOINTMENT MANAGER:

Generally, we see people who want to book an appointment in a particular hospital making calls or taking tokens by waiting in queues to consult the doctor. Most of the times, people get busy signals. If patient scheduling is only available by phone, front office staff spends most of their day answering calls. Booking appointments is not a task that requires a human touch, so it is not an efficient use of their time.

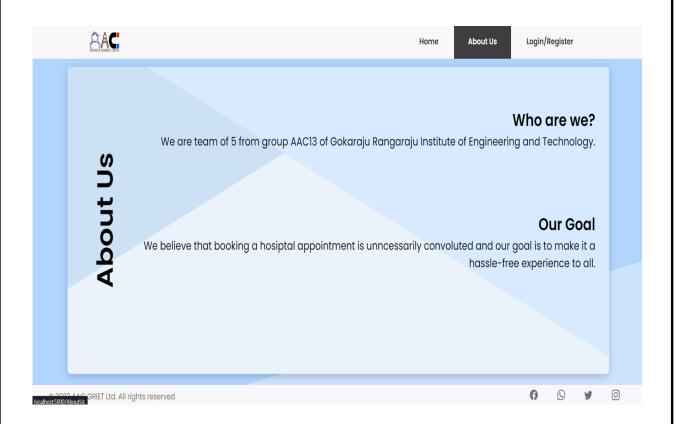
Our website Hospital Appointment Manager is a web application which allows the user to book an appointment in any of the desired hospitals of user's wish.

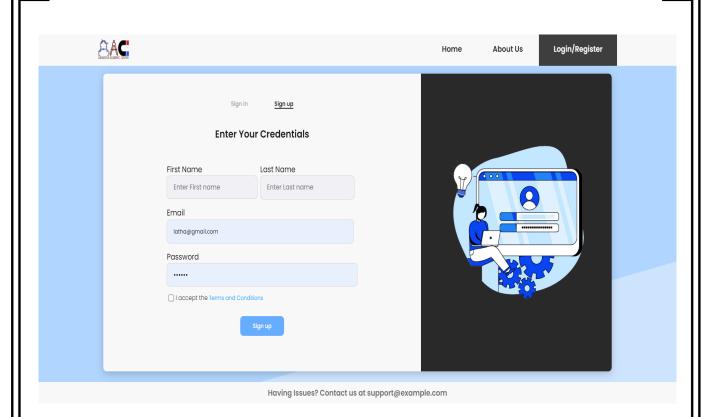
FEATURES:

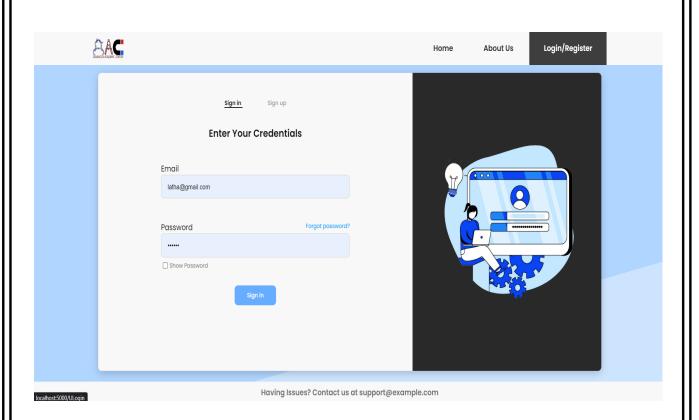
In Hospital Appointment Manager, there are 6 web pages. Website includes Login Authentication from user (Sign-up and Sign-in). All the data is stored in Firebase. Website then redirects the user to Book an appointment page which requires user's location. This has filters which gives user flexibility to choose the specializations based on user's requirements. When a user books an appointment in a desired hospital a confirmation e-mail will be sent to the doctor immediately. Our website lets the doctors to either accept, decline, or re-adjust the patient's appointment according to his/her availability. This way an appointment is booked and user can consult the doctor with ease.

Use-Case:

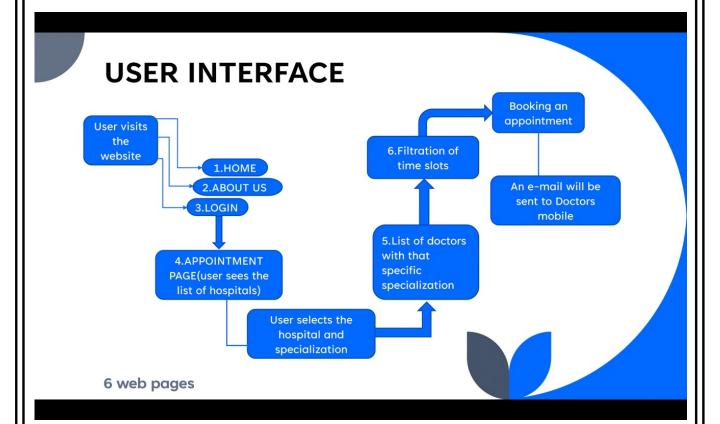
Website can be used as appointment manager for anything, be it gyms, cinemas etc. But we found hospitals as its best option.







WORK FLOW:



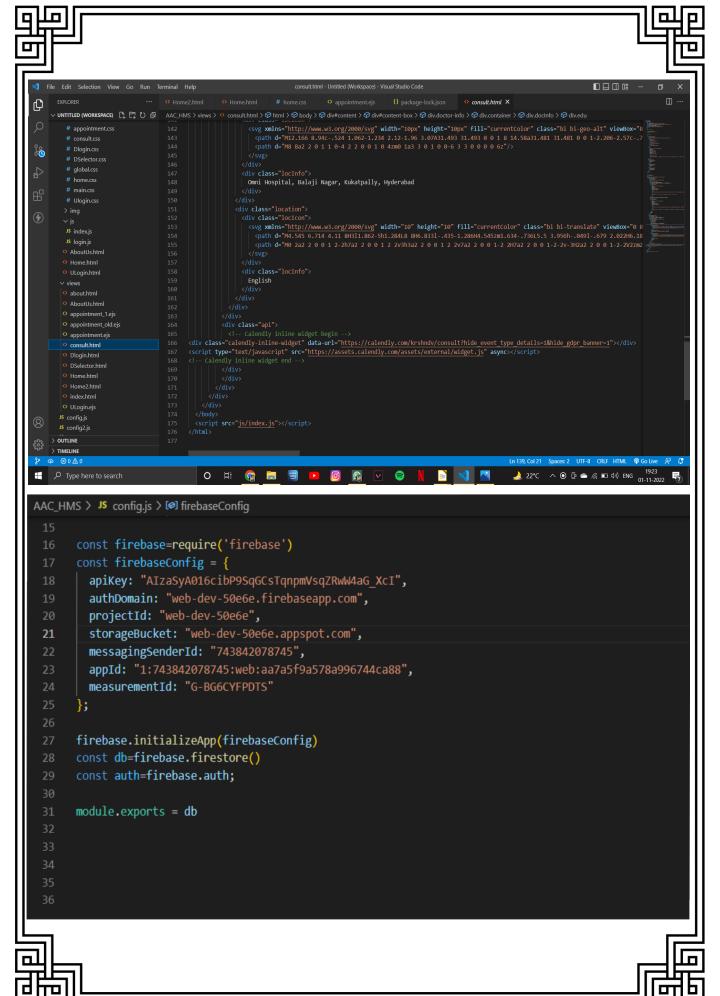
Once the user visits the website, the user sees the home page. The user can see 3 options in the navbar(home, about us, login). To book an appointment, the user has to first sign up /sign in. After this the user will be redirected to the appointment page. Here in this page, user sees the list of hospitals and also has an option to choose the specialization according to his requirement. Then user selects the desired hospital. Now user sees the list of doctors in that particular hospital. The user can now select the date and time for booking the appointment. Once the appointment is booked, an e-mail will be sent to doctor where he can either accept or reschedule. This is how the process goes on.

Code: → Home.html AAC_HMS • public × html lang="en"> <meta name="viewport" content="width=device-width, initial-scale=1.0" /> <title>Home</title> <link rel="stylesheet" href="css/global.css"
<link rel="stylesheet" href="css/home.css" /> <div id="box-container">
| <div id="tilted-box"></div> <div id="nav-contents"> id="home" style="background: \square #3e3e3e; color: \blacksquare white">Home
 id="login">Login/Register 33 34 AAC_HMS > public > ↔ Home.html > � html > � body Home </div> About Us Login/Register <h1>Health made easy!</h1> our Website lets user make easy appointments in their desired hospitals with available time slots and also lets the users to v <div class="location-selector"> <label for="location">Your Location</label> <select name="cars" id="cars
<ontion value="Kukatnally"</pre>

```
ACLIMS > wiews > 0 appointment.gi > @ html > @ body > @ naw > @ divfnav-contents > @ ulfnav-links > @ a

// div
// div style="mangin-left: 5px; font-size: 16px">Specialisation</div>// div class="filters">
// di
```

```
AAC_HMS > views > ♦ appointment.ejs > ♦ html > ♦ body > ♦ nav > ♦ div#nav-contents > ♦ ul#nav-links > ♦ a
             <div class="results">
               <div class="heading">
                 <center>BOOK AN APPOINTMENT</center>
                <div class="search">
                 <input type="text" id="hospname" onkeyup="search();" placeholder="Search by Hospital name" />
                 d="myUL">
                    data.hospitals.forEach(function(o) { %>
                      <div class="flower name" data-id="Omni Hospital" data-category="Dermatology Neurology europe">
                        <% if( o.name == 'Remedy'){ %>
                        <img src="img/remedy.png" class="docImg" />
                        <% } else if ( o.name == 'Omni Hospitals'){ %>
                        <img src="img/OMNI hospital image.jpg" class="docImg" />
                        <% } else if (o.name == 'Appolo Hospitals'){ %>
                        <img src="img/apollo.png" class="docImg"
<% } else if ( o.name == 'Landmark'){%>
                        <img src="img/Landmark.jpg" class="docImg" />
<% } else if ( o.name == 'Deeksha Hospital'){%>
                        <% } else if ( o.name == 'Prime Hospitals'){%>
                        <img src="img/primehosp.jpg" class="docImg'</pre>
                        « } %>
                           <%= o.name %>
                           <div class="location">
                             <div class="locIcon">
                               <svg xmlns="http://www.w3.org/2000/svg" width="14" height="14" fill="currentColor"</pre>
                                 class="bi bi-geo-alt" viewBox="0 0 16 16">
```



```
AC_HMS > {} package.json > ...
       "name": "aac_hms",
        "description": "",
        "main": "index.js",
        "scripts": {
          "test": "echo \"Error: no test specified\" && exit 1", "start": "nodemon server.js"
        "author": "abhinav",
        "license": "ISC",
        "dependencies": {
    "body-parser": "^1.20.0",
          "cookie-parser": "^1.4.6",
          "cors": "^2.8.5",
"ejs": "^3.1.8",
          "express": "^4.18.1",
          "express-session": "^1.17.3",
          "firebase": "^8.10.1",
          "firebase-admin": "^11.1.0"
        "devDependencies": {
          "nodemon": "^2.0.19"
```

```
AAC_HMS > Js server.js > 🗘 app.get('/appointment') callback
       const cors = require("cors");
       const Db = require("./config");
       const express = require('express');
       const session = require("express-session");
       const cookieParser = require("cookie-parser");
       const app = express()
       const bodyParser = require('body-parser'); // middleware
       app.use(express.static('public'));
       app.use(express.json());
       app.use(cors());
        app.use('/css', express.static var __dirname: string 5'))
        app.use('/js', express.static(_dirname + 'public/js'))
app.use('/img', express.static(_dirname + 'public/images'))
         app.use(bodyParser.urlencoded({ extended: true }));
         app.use(cookieParser());
         app.use(session({ secret: "gumpu2002", saveUninitialized: true, resave: true }));
       app.set('views', './views');
app.engine('html', require('ejs').renderFile);
       //app.set('view engine', 'html');
app.set('view engine', 'ejs');
const User = Db.collection("Users")
```

```
app.get('/AboutUs', (req, res) => {
    res.render('AboutUs.html')
        app.get('/ULogin', (req, res) => {
    res.render('ULogin')
        app.get('/Dlogin', (req, res) => {
    res.render('Dlogin.html')
        app.get('/DSelector', (req, res) => {
    res.render('DSelector.html')
        app.get('/consult', (req, res) => {
    res.render('consult.html')
        app.get('/Home', (req, res) => {
    res.render('Home.html')
            if(req.session.user.email)
             console.log("Email"+req.session.user.email)
const snapshot= await Hospital.get()
              snapshot.forEach((doc) => {
        hospitalsList.push( doc.data())
AAC_HMS > Js server.js > \bigcirc app.get('/appointment') callback
       app.post('/ULogin', async(req, res) => {
           let email = req.body.email
           let Password = req.body.Password
           const user = -
               email: req.body.email,
               Password: req.body.Password
          .get();
       if (snapshot.empty) {
       console.log('No matching documents.');
        res.render('ULogin.html')
       console.log('User available.');
```

console.log(` email: \${email} Password: \${Password} `)

app.get('/hospitals',async(req,res) =>{
 const Hospitals = Db.collection('hospitals')
 const snapshot = await Hospitals.get();

console.log(doc.id, '=>', doc.data());

snapshot.forEach(doc => {

```
app.get('/Logout', (req, res) => {
   req.session.destroy()
   res.render('Home.html')
})
app.post('/signup',async(req, res) => {
     let Tnc =req.body.Tnc
     let fName = req.body.fName
     let lName = req.body.lName
     let email = req.body.email
     let Password = req.body.Password
      let data= req.body
   await User.add(data );
    res.render('ULogin.html')
})
app.listen(port, () => console.info(`App listening on port ${port}`))
```

