A
REPORT
ON
WEB DEVELOPMENT

Submitted
In partial fulfillment
For the certificate of internship on fullstack development

Submitted by: Submitted to:
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CANDIDATE DECLARATION

I here by declare that the project entitled "MEDICINO(Hospital management) submitted by me to Dhyanahitha institution in partial fulfillment of the requirements for the certificate of internship on fullstack development is a record of bonafide project work carried out by me under guidance of my mentor.I further declare that the work reported in this project has not been submitted and will not be submitted,either in part or in full,for the award or certificate of any other degree.

Signature of candidate:

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ACKNOWLEDGEMENT

ABSTRACT

Web development is the work involved in developing a website for the Internet (World Wide Web) or an intranet (a private network).Web development can range from developing a simple single static page of plain text to complex web-based internet applications (web apps), electronic businesses, and social network services. A more comprehensive list of tasks to which web development commonly refers, may include web engineering, web design, web content development, client liaison, client-side/server-side scripting, web server and network security configuration, and e-commerce development.

Among web professionals, "web development" usually refers to the main non-design aspects of building websites: writing markup and coding. Web development may use content management systems (CMS) to make content changes easier and available with basic technical skills.

For larger organizations and businesses, web development teams can consist of hundreds of people (web developers) and follow standard methods like Agile methodologies while developing websites. Smaller organizations may only require a single permanent or contracting developer, or secondary assignment to related job positions such as a graphic designer or information systems technician. Web development may be a collaborative effort between departments rather than the domain of a designated department. There are three kinds of web developer specialization: front-end developer, back-end developer, and full-stack developer. Front-end developers are responsible for behavior and visuals that run in the user browser, while back-end developers deal with the servers.

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CHAPTER-1
INTRODUCTION

Full stack development refers to the development of both front end(client side) and back end(server side) portions of web application.

Full stack web developers have the ability to design complete web applications and websites. They work on the frontend, backend, database and debugging of web applications or websites.
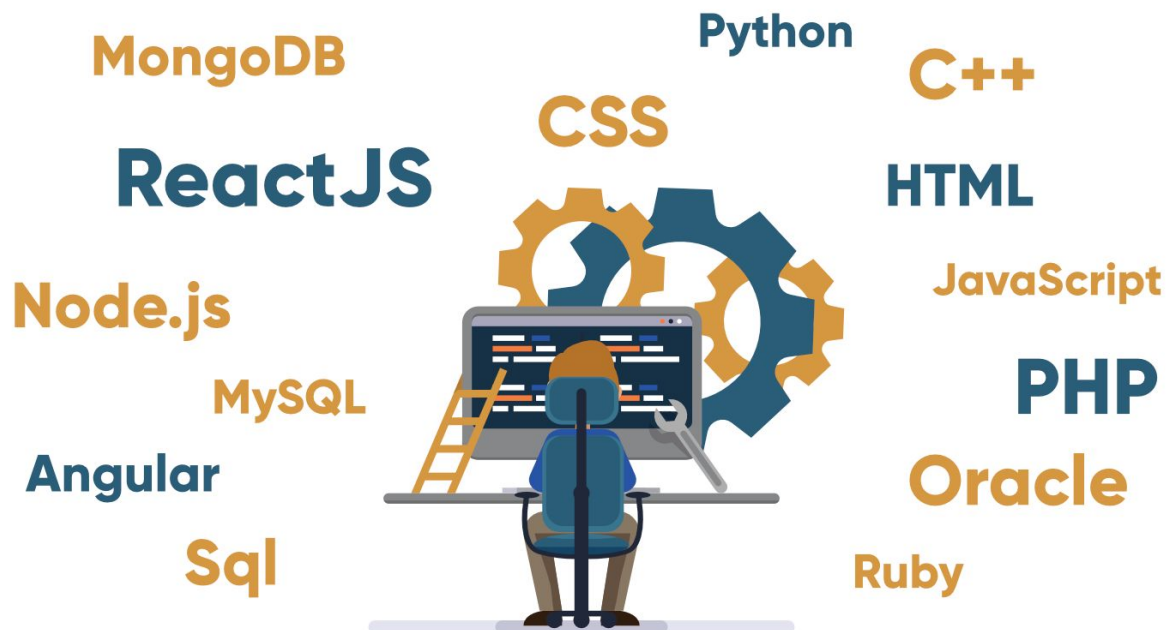
So full stack development is classified into two phases:

1.FRONTEND

2.BACKEND

CHAPTER-2

Front end development

Front end is the visible part of a website or web application which is responsible for user experience. The user directly interacts with the front end portion of the web application or website.

Front end Languages:

- HTML (HyperText Markup Language)
- CSS   (cascading style sheet)
- JavaScript
- JQuery
- Bootstrap

2.1 HTML

HTML stands for **Hyper Text Markup Language.** It is used to design web pages using markup language. HTML is the combination of Hypertext and Markup language. Hypertext defines the link between the web pages. Markup language is used to define the text document within a tag which defines the structure of web pages. This language is used to annotate (make notes for the computer) text so that a machine can

understand it and manipulate text accordingly. Most markup (e.g. HTML) languages are human readable. Language uses tags to define what manipulation has to be done on the text.

HTML is a markup language which is used by the browser to manipulate text, images and other content to display it in required format. HTML was created by Tim Berners-Lee in 1991. The first ever version of HTML was HTML 1.0 but the first standard version was HTML 2.0 which was published in 1999.

An HTML element is defined by a starting tag. If the element contains other content, it ends with a closing tag, where the element name is preceded by a forward slash as shown below with few tags −

Tag	Description
<html> ... </html>	Declares the Web page to be written in HTML
<head> ... </head>	Delimits the page's head
<title> ... </title>	Defines the title (not displayed on the page)
<body> ... </body>	Delimits the page's body
<h n> ... </hn>	Delimits a level n heading
 ... 	Set ... in boldface
<i> ... </i>	Set ... in italics
<center> ... </center>	Center ... on the page horizontally
...	Brackets an unordered (bulleted) list
...	Brackets a numbered list
...	Brackets an item in an ordered or numbered list
 	Forces a line break here
<p>	Starts a paragraph
<hr>	Inserts a horizontal rule
<img src="...">	Displays an image here
 ... 	Defines a hyperlink

Table.2.1

So here <html>....</html>,<head>....</head>,<p>....</p> is an HTML element, <hn>...</hn> is another HTML element. There are some HTML elements which don't

need to be closed, such as <img.../>, <hr /> and <br /> elements. These are known as void elements.still we have many tags in the html.

HTML documents consist of a tree of these elements and they specify how HTML documents should be built, and what kind of content should be placed in what part of an HTML document.

HTML can embed programs written in scripting languages such as JavaScript which affect the behaviour and content of webpages.Inclusion of CSS define the look and layout of content.

The following is an example of the classic hello world program,a common test for comparing programming languages,scripting languages and markup languages.

Example of html source code:

```
<!DOCTYPE html>
    <html>
            <head>
                <title>page title</title>
         </head>
     <body>
         <h1>My first heading</h1>
       <p>Hello world</p>
     </body>
</html>
```

- The <!DOCTYPE html> declaration defines that this document is an HTML5 document
- The <html> element is the root element of an HTML page
- The <head> element contains meta information about the HTML page
- The <title> element specifies a title for the HTML page (which is shown in the browser's title bar or in the page's tab)

- The <body> element defines the document's body, and is a container for all the visible contents, such as headings, paragraphs, images, hyperlinks, tables, lists, etc.
- The <h1> element defines a large heading
- The <p> element defines a paragraph

Output will be like:

My First Heading

Hello world

2.2.CSS

Cascading Style Sheets, fondly referred to as **CSS**, is a simply designed language intended to simplify the process of making web pages presentable. CSS allows you to apply styles to web pages. More importantly, CSS enables you to do this independent of the HTML that makes up each web page.

CSS is easy to learn and understood but it provides powerful control over the presentation of an HTML document.

CSS saves time you can write CSS once and reuse the same sheet in multiple HTML pages.Easy Maintenance to make a global change simply change the style, and all elements in all the webpages will be updated automatically.Search Engines of CSS is considered as a clean coding technique, which means search engines won't have to struggle to "read" its content. CSS has a much wider array of attributes than HTML, so you can give a far better look to your HTML page in comparison to HTML attributes.Offline Browsing of CSS can store web applications locally with the help of offline cache.Using of this we can view offline websites.

Types of CSS:

1.inline css

2.internal css

3.external css

Types of CSS

INLINE CSS   INTERNAL CSS   EXTERNAL CSS

fig.2.2.1

Inline CSS:

InlineCSS is used to style a specific HTML element. For this CSS style, you'll only need to add the **style** attribute to each HTML tag, without using selectors.This CSS type is not really recommended, as each HTML tag needs to be styled individually. Managing your website may become too hard if you only use inline CSS.However, inline CSS in HTML can be useful in some situations. For example, in cases where you don't have access to CSS files or need to apply styles for a single element only.

Internal CSS:

Internal or embedded CSS requires you to add the **<style>** tag in the **<head>** section of your HTML document.This CSS style an effective method of styling a single page. However, using this style for multiple pages is time-consuming as you need to put CSS rules to every page of your website.

External CSS:

With external CSS, you'll link your web pages to an external **.css** file, which can be created by any text editor in your device (e.g., <u>**Notepad++**</u>).This CSS type is a more efficient method, especially for styling a large website. By editing one **.css** file, you can change your entire site at once.

Login page before using CSS:
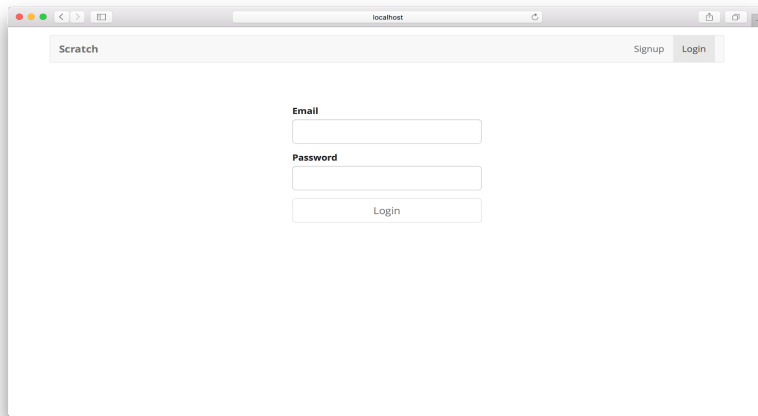
Fig.2.2.2

Login page after using CSS:
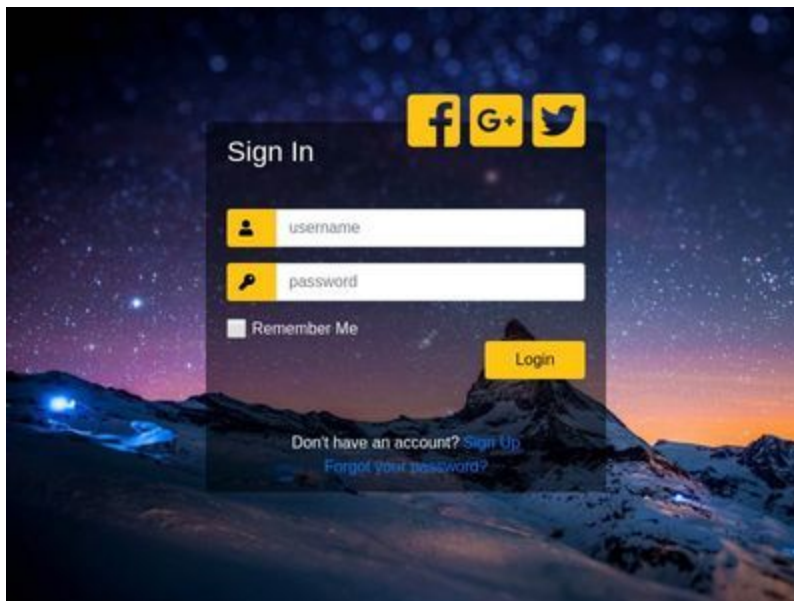
Fig.2.2.3

2.3.Bootstrap

Bootstrap is a sleek, intuitive, and powerful, mobile first front-end framework for faster and easier web development. It uses HTML, CSS and Javascript.

Bootstrap was developed by *Mark Otto* and *Jacob Thornton* at *Twitter*. It was released as an open source product in August 2011 on GitHub.

- Mobile first approach − Bootstrap 3, framework consists of Mobile first styles throughout the entire library instead of in separate files.
- Browser Support − It is supported by all popular browsers.

- Easy to get started − With just the knowledge of HTML and CSS anyone can get started with Bootstrap. Also the Bootstrap official site has good documentation.
- Responsive design − Bootstrap's responsive CSS adjusts to Desktops, Tablets and Mobiles. More about the responsive design is in the chapter Bootstrap Responsive Design.
- Provides a clean and uniform solution for building an interface for developers.
- It contains beautiful and functional built-in components which are easy to customize.
- It also provides web based customization.
- And best of all it is open source.

What Bootstrap Package Includes?

- Scaffolding − Bootstrap provides a basic structure with Grid System, link styles, and background. This is is covered in detail in the section Bootstrap Basic Structure

- CSS − Bootstrap comes with the feature of global CSS settings, fundamental HTML elements styled and enhanced with extensible classes, and an advanced grid system. This is covered in detail in the section Bootstrap with CSS.
- Components − Bootstrap contains over a dozen reusable components built to provide iconography, dropdowns, navigation, alerts, pop-overs, and much more. This is covered in detail in the section Layout Components.
- JavaScript Plugins − Bootstrap contains over a dozen custom jQuery plugins. You can easily include them all, or one by one. This is covered in details in the section Bootstrap Plugins.
- Customize − You can customize Bootstrap's components, LESS variables, and jQuery plugins to get your very own version.

Installing and linking bootstrap to the HTML page:

1. Go to Google and type Bootstrap. The Bootstrap links will open.

2.Click the first link (http://www.getbootstrap.com) in the search results.

3.The bootstrap homepage will be opened.

4.Click on the "Download Bootstrap" button.

5.The page will be opened to select the Bootstrap option (Complete and minified CSS, JavaScript, fonts, no docs or original source files are included).

6.The file will be downloaded in zip format. You should extract the files.

6.Inside the file, there are three kinds of file available (CSS, FONTS, JS).

fig.2.3.1

7.Go to Google and type jquery.com

8.The site will be opened.

9.Click the first option and the jQuery page will be opened.

10.Click the "Download jQuery" option.

 11.The jQuery file will be opened.

12.There are a number of download links available. Select the advanced version to download.
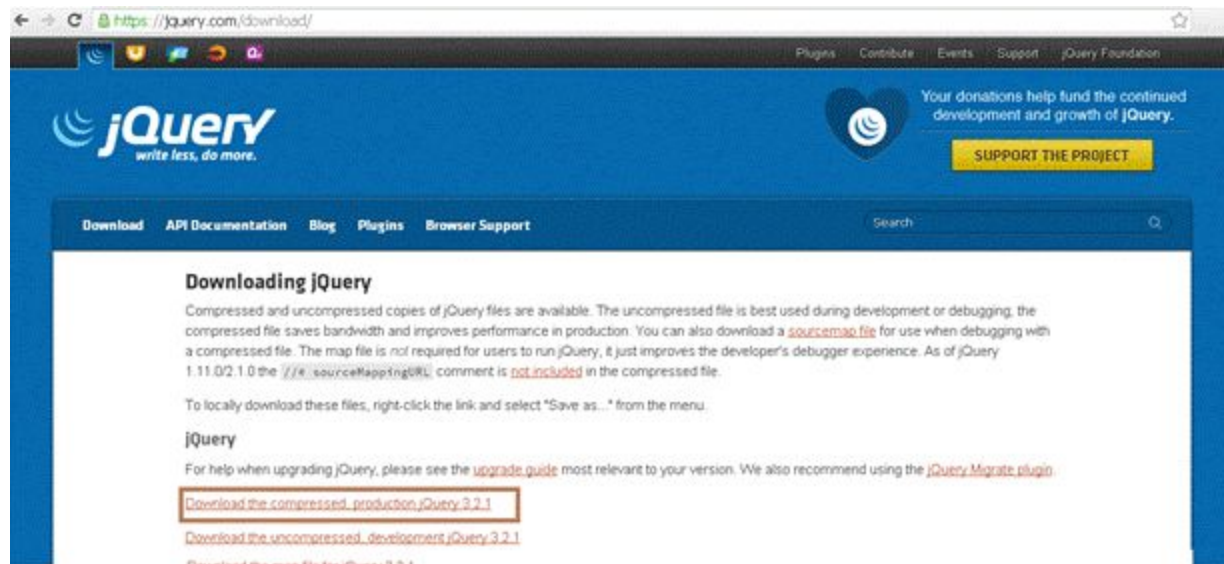
fig.2.3.2

13. The file will be downloaded. In that file, copy and paste the JS folder (downloaded file folder (bootstrap-3.3.7-dist→js→paste the file).

1. →

bootstrap-3.3.7-d
ist

2. →

Name	Date modified	Type	Size
css	7/25/2016 3:53 PM	File folder	
fonts	7/25/2016 3:53 PM	File folder	
js	7/25/2016 3:53 PM	File folder	

3. →

Name	Date modified	Type	Size
css	7/25/2016 3:53 PM	File folder	
fonts	7/25/2016 3:53 PM	File folder	
js	7/25/2016 3:53 PM	File folder	
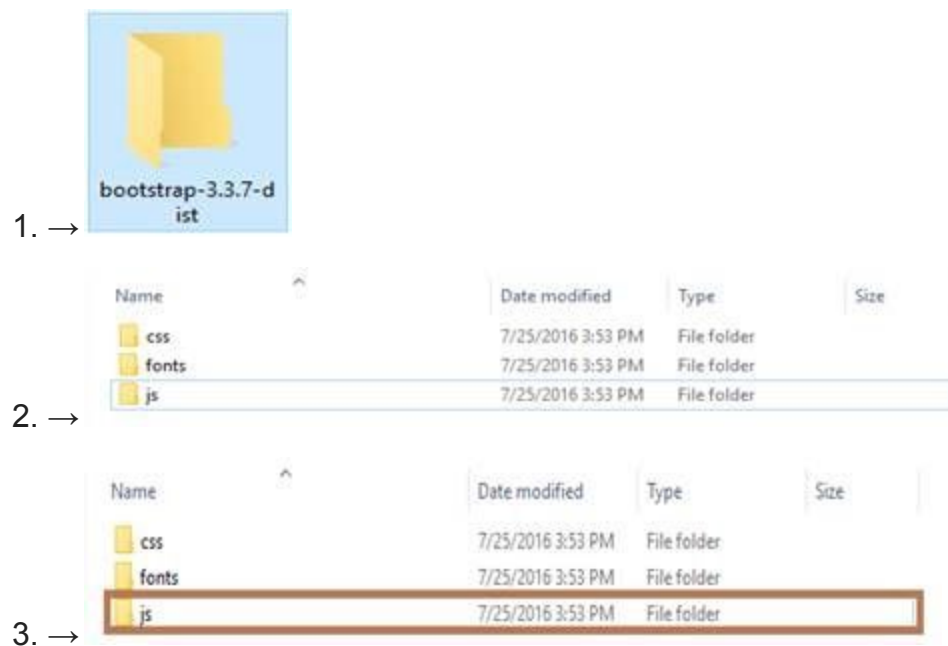
Name	Date modified	Type	Size
bootstrap.js	7/25/2016 3:53 PM	JavaScript File	69 KB
bootstrap.min.js	7/25/2016 3:53 PM	JavaScript File	37 KB
jquery.js	11/28/2015 7:15 PM	JavaScript File	94 KB
npm.js	7/25/2016 3:53 PM	JavaScript File	1 KB

4. →

14. That is the way to include jquery.js files in the Bootstrap folder.

15. After saving the file wherever you want, open the Notepad or Notepad++ (advanced version of Notepad).

16. Write HTML codes for linking all the files in your HTML page.

17. Write the following code.

- <!DOCTYPE html>
- <html>
-
- <head>
-     <title>Bootstrap Installation</title>
-     <link rel="stylesheet" type="text/css" href="css/bootstrap.min.css"> </head>
-
- <body>
-     <h1>To link the Bootstrap files and Jquery Files to HTML page
-         <h1>
-             <script type="text/javascript" src="js/bootstrap.min.js"></script>
-             <script type="text/javascript" src="js/jquery.js"></script>
- </body>
-
- </html>

18. After writing the codes, it must be saved where the Bootstrap file, for ex- index.html.

Name	Date modified	Type	Size
css	7/25/2016 3:53 PM	File folder	
fonts	7/25/2016 3:53 PM	File folder	
js	7/25/2016 3:53 PM	File folder	
index.html	4/15/2017 9:46 AM	Firefox HTML Doc...	1 KB

18.After saving the file, you should double click the file and the HTML page will run in the browser.

OUTPUT

Bootstrap installation   ✕ +

← ⊛ file:///G:/bootstrap-3.3.7-dist/index.html   ℰ   🔍 Search
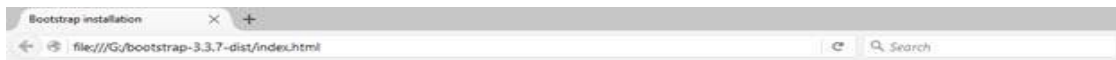
To link the Bootstrap files in HTML page

Fig.2.3.3

2.4.JAVA SCRIPT

JavaScript often abbreviated as **JS**, is a programming language that conforms to the ECMAScript specification. JavaScript is high-level, often just-in-time compiled, and multi-paradigm. It has curly-bracket syntax, dynamic typing, prototype-based object-orientation, and first-class functions.

Alongside HTML and CSS, JavaScript is one of the core technologies of the World Wide Web.JavaScript enables interactive web pages and is an essential part of web applications. The vast majority of websites use it for client-side page behavior, and all major web browsers have a dedicated JavaScript engine to execute it.

As a multi-paradigm language, JavaScript supports event-driven, functional, and imperative programming styles. It has application programming interfaces (APIs) for working with text, dates, regular expressions, standard data structures, and the Document Object Model (DOM). However, the language itself does not include any input/output (I/O), such as networking, storage, or graphics facilities, as the host environment (usually a web browser) provides those APIs.

JavaScript engines were originally used only in web browsers, but they are now embedded in some servers, usually via Node.js. They are also embedded in a variety of applications created with frameworks such as Electron and Cordova.

Although there are similarities between JavaScript and Java, including language name, syntax, and respective standard libraries, the two languages are distinct and differ greatly in design.

2.5.JQuery

jQuery is a JavaScript library designed to simplify HTML DOM tree traversal and manipulation, as well as event handling, CSS animation, and Ajax. It is free, open-source software using the permissive MIT License. As of May 2019, jQuery is used by 73% of the 10 million most popular websites. Web analysis indicates that it is the most widely deployed JavaScript library by a large margin, having 3 to 4 times more usage than any other JavaScript library.

jQuery's syntax is designed to make it easier to navigate a document, select DOM elements, create animations, handle events, and develop Ajax applications. jQuery also provides capabilities for developers to create plug-ins on top of the JavaScript library. This enables developers to create abstractions for low-level interaction and animation, advanced effects and high-level, themeable widgets. The modular approach to the jQuery library allows the creation of powerful dynamic web pages and Web applications.

The set of jQuery core features—DOM element selections, traversal and manipulation—enabled by its *selector engine* (named "Sizzle" from v1.3), created a new "programming style", fusing algorithms and DOM data structures. This style influenced the architecture of other JavaScript frameworks like YUI v3 and Dojo, later stimulating the creation of the standard *Selectors API*. Later, this style has been enhanced with a deeper algorithm-data fusion in an heir of jQuery, the D3.js framework.

Microsoft and Nokia bundle jQuery on their platforms.Microsoft includes it with Visual Studio for use within Microsoft's ASP.NET AJAX and ASP.NET MV.

2.6 AJAX

AJAX stands for Asynchronous JavaScript and XML. AJAX is a new technique for creating better, faster, and more interactive web applications with the help of XML, HTML, CSS, and Javascript.

- Ajax uses XHTML for content, CSS for presentation, along with Document Object Model and JavaScript for dynamic content display.
- Conventional web applications transmit information to and from the sever using synchronous requests. It means you fill out a form, hit submit, and get directed to a new page with new information from the server.
- With AJAX, when you hit submit, JavaScript will make a request to the server, interpret the results, and update the current screen. In the purest sense, the user would never know that anything was even transmitted to the server.
- XML is commonly used as the format for receiving server data, although any format, including plain text, can be used.
- AJAX is a web browser technology independent of web server software.
- A user can continue to use the application while the client program requests information from the server in the background.
- Intuitive and natural user interaction. Clicking is not required, mouse movement is a sufficient event trigger.
- Data-driven as opposed to page-driven.

Rich Internet Application Technology

AJAX is the most viable Rich Internet Application (RIA) technology so far. It is getting tremendous industry momentum and several tool kit and frameworks are emerging. But at the same time, AJAX has browser incompatibility and it is supported by JavaScript, which is hard to maintain and debug.

AJAX is Based on Open Standards

AJAX is based on the following open standards −

- Browser-based presentation using HTML and Cascading Style Sheets (CSS).
- Data is stored in XML format and fetched from the server.
- Behind-the-scenes data fetches using XMLHttpRequest objects in the browser.

- JavaScript to make everything

CHAPTER-3

REQUIREMENTS

3.1SOFTWARE REQUIREMENTS:

The software requirements are description of features and functionalities of the target system. Requirements convey the expectations of users from the software product. The requirements can be obvious or hidden, known or unknown, expected or unexpected from client's point of view.

NUMBER	DESCRIPTION
1.Operating system	Windows 7 or later
2.Languages used	HTML,CSS,javascript,Jquery,Bootstrap,AJAX.
3.compiler	Visual studio code

table.3.1

3.2 Hardware requirements:

The most common set of requirements defined by any operating system or software application is the physical computer resources, also known as hardware, A hardware requirements list is often accompanied by a hardware compatibility list (HCL), especially in case of operating systems. An HCL lists tested, compatible, and sometimes incompatible hardware devices for a particular operating system or application. The following subsections discuss the various aspects of hardware requirements.

Processor	Description
RAM	4.0GB(minimum)
Hard disk drive	400 GB(minimum)

Table.3.2

CHAPTER-4

ABOUT PROJECT

4.1 Project Name:MEDICINO (FRONTEND DEVELOPMENT)

Our project name is MEDICINO which is on hospital management. which provides separate portals for doctors, patients,nurse,receptionists and admin.every portal consists of profile updation,attendance updation and dashboard except in admin and patient portal.patient portal consists of patient information page and admin portal consists of profile updation and reports regarding patients.

4.2 Technologies used:
1.HTML
2.CSS
3.Javascript
4.J Query

4.3 Technical details:
1. HTML,CSS ,JS,JQuery,Bootstrap are used to design the front end part.
3. Visual studio code is used for compilation.

CHAPTER-5
MODULES

5.1 User registration:
The registration page is a special page where users can create an account on your site. The theme extends the registration form with social networks registration .registration page is for new users of the hospital.
Our registration page consists of following fields:
1.email-id
2.Username
3.Password
4.Date of birth
5.Mobile number
6.Address

These fields are done with validations by using regular expressions
Email-id:
         var em =/^([a-zA-Z0-9_\-\.]+)@([a-zA-Z0-9_\-\.]+)\.([a-zA-Z]{2,5})$/;
User name:
         var us = /^[A-Z][a-z A-Z]{6,12}$/;
password:
          var pas = /^[a-z A-Z 0-9 ! @ # $]{6,12}$/;
Date of birth:
         var dob = /^(0?[1-9]|[12][0-9]|3[01])[\/\-](0?[1-9]|1[012])[\/\-]\d{4}$/;
Mobile number:
         var num = /^[6-9][0-9]{9}$/;

5.2 Login Page:
         The login page allows a user to gain access to an application by entering their
username and password after registration.
Login page consists of following fields:
 1.Username
 2.Password
 These are done with validations by using regular expressions
   User name:
         var us = /^[A-Z][a-z A-Z]{6,12}$/;
  password:
         var pas = /^[a-z A-Z 0-9 ! @ # $]{6,12}$/;

CHAPTER-6
WIRE FRAME

Wireframing is a way to design a website service at the structural level. A wireframe is
commonly used to lay out content and functionality on a page which takes into account
user needs and user journeys. Wireframes are used early in the development process
to establish the basic structure of a page before visual design and content is added.

Wire frame for registration page:

heading of the page

feilds of the page
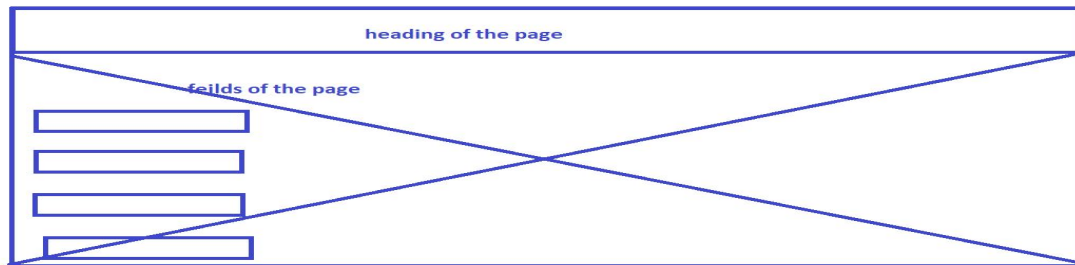
fig.6.1

Wireframe for login page:

page heading

fields of loginpage
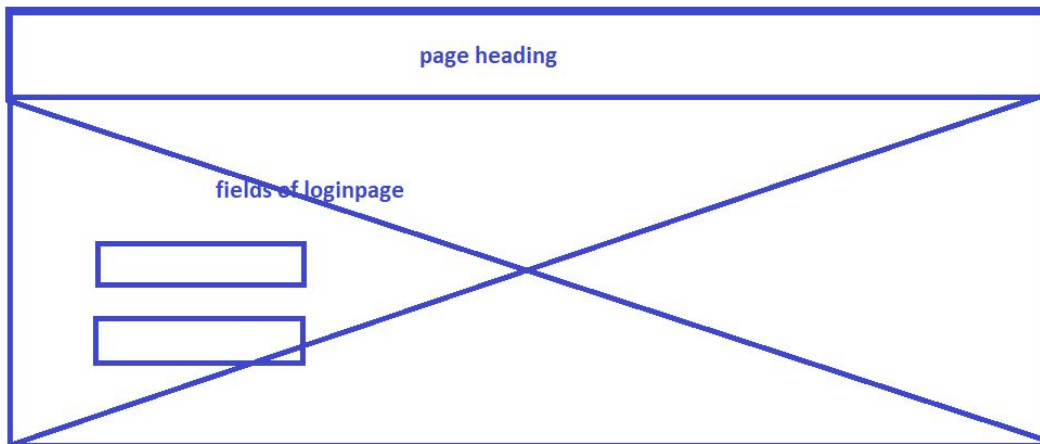
Fig.6.2

Wireframe of medicino site:
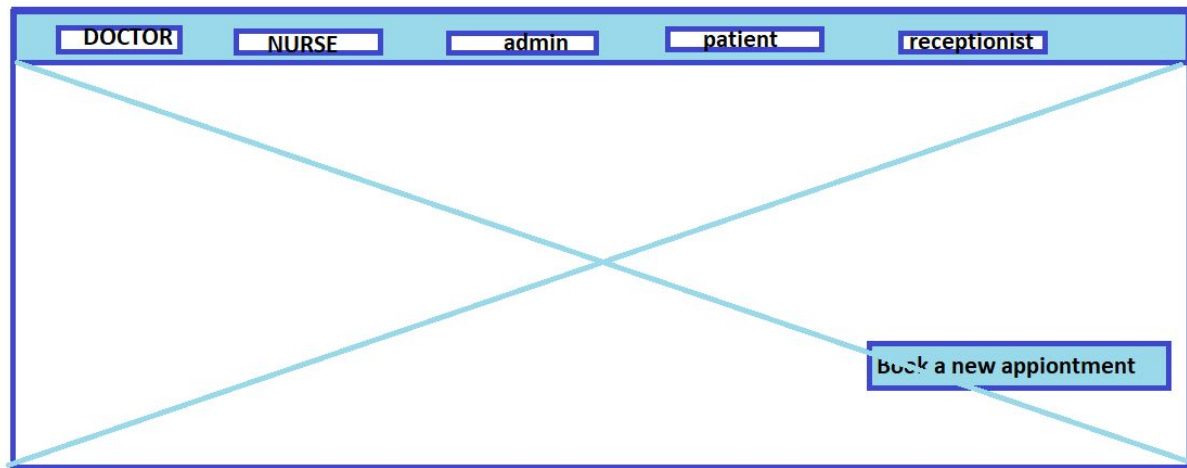
fig.6.3

Wire frame for doctor, receptionist and nurse portal:

```
┌──────────────────────────────────────────────────────────────┐
│                      ┌─────────────────┐                       │
│                      │  Portal name    │                       │
│   ┌─────────────────┐└─────────────────┘     ┌───────────────┐│
│   │Profile updation │     ┌─────────────┐     │Attendace updation│
│   └─────────────────┘     │ Dashboard   │     └───────────────┘│
│                           └─────────────┘                      │
│                                                                │
│                                                                │
│                                                                │
│                                                                │
│                                                                │
│                                                                │
└──────────────────────────────────────────────────────────────┘
```

Fig.6.4

Wire frame for admin portal:

```
┌──────────────────────────────────────────────────────────────┐
│                  ┌────────────────────┐                        │
│                  │ Name of the Portal │                        │
│                  └────────────────────┘                        │
│                                                                │
│       ┌──────────────────┐        ┌──────────────────┐         │
│       │ profile updation │        │ Reports          │         │
│       └──────────────────┘        └──────────────────┘         │
│                                                                │
│                                                                │
│                                                                │
│                                                                │
└──────────────────────────────────────────────────────────────┘
```

Fig.6.5

CHAPTER-7

Codes and Outputs

Registration page:

```html
<!DOCTYPE html>

<html>

    <head>

        <link href="bootstrap-4.3.1-dist/css/bootstrap.min.css"
rel="StyleSheet" />

        <script type="text/javascript"
src="bootstrap-4.3.1-dist/js/bootstrap.min.js"></script>

        <script type="text/javascript"
src="bootstrap-4.3.1-dist/js/jquery.min.js"></script>

        <script type="text/javascript">

            $(document).ready(function(){

                $("#btnLogin").click(function(){

                    var val1 = $("#txtUsername").val();

                    var val2 = $("#txtEmail").val();

                    var val3 = $("#txtNumber").val();

                    var val4 = $("#txtPassword").val();

                    var val5 = $("#txtAddress").val();

                    var us = /^[A-Z][a-z A-Z]{6,12}$/;

                    var em =
/^([a-zA-Z0-9_\-\.]+)@([a-zA-Z0-9_\-\.]+)\.([a-zA-Z]{2,5})$/;

                    var num = /^[6-9][0-9]{9}$/;

                    var pas = /^[a-z A-Z 0-9 ! @ # $]{6,12}$/;


                    if(val1=='' && val2=='' && val3=='' && val4=='' &&
val5==''){

                        $('input[type="text"]').css("border","2px solid
red");

                        $('input[type="number"]').css("border","2px solid
red");

                        $('input[type="password"]').css("border","2px
solid red");

                        window.alert('Please enter all fields');

                    }
```
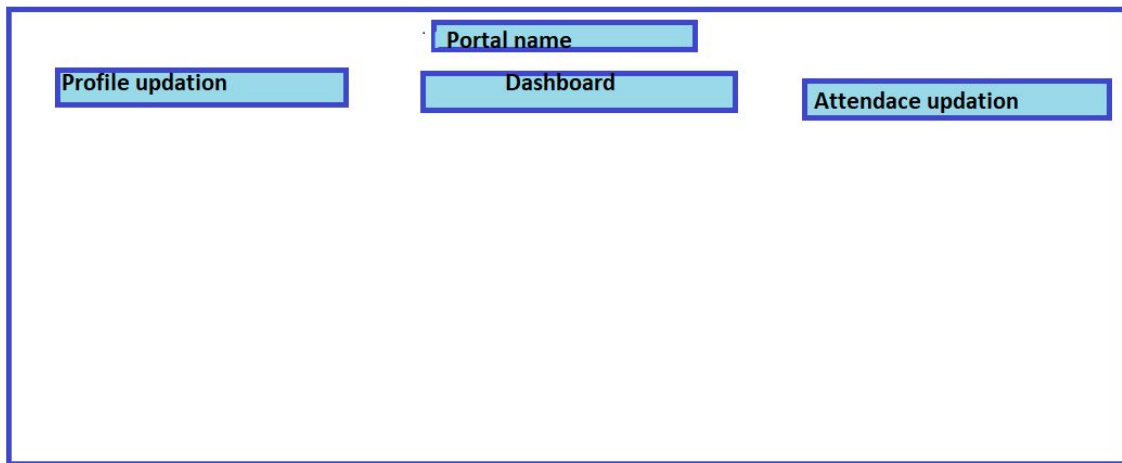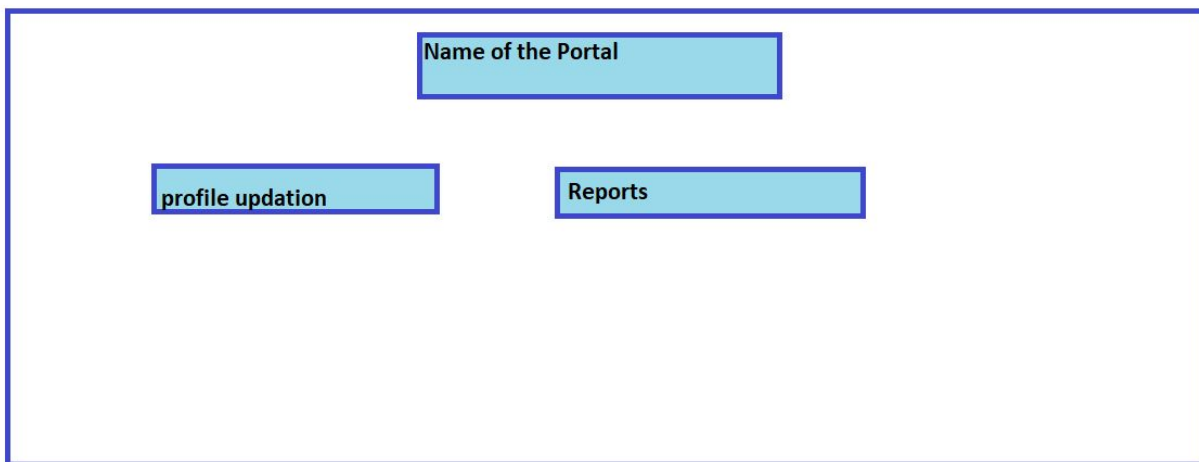
```javascript
                    else{

                        if(us.test(val1) && em.test(val2) &&
num.test(val3) && pas.test(val4)){
                            window.alert('Valid');
                            var api_url = "http://localhost:3002/login";
            var data = {
              username: $("#txtUsername").val(),
              email: $("#txtEmail").val(),
              mobilenumber: $("#txtNumber").val(),
              address:$("#txtAddress").val(),
              password: $("#txtPassword").val(),


            }
          $.ajax({
            url: api_url,
            type: "POST",
            dataType: "Json",
            data: data,
            success: function (data) {
              return;
            },
            error: function () {
            },
          });
                        }
                        else{
                            window.alert('Invalid');
                        }
                    }
                });
            });

        </script>
        <style>
            h1{
                text-align: center;
```

```html
                color: grey;
                font-family: serif;
                font-style: italic;;
            }
            body{
                background-image:
url("https://www.mountelizabeth.com.sg/Sitefinity/WebSiteTemplates/Parkway
Template/App_Themes/ParkwayTheme/Images/en/background/average-bill-size.pn
g");
                background-size: 100%;
            }
        </style>
    </head>
    <body>
        <h1>CREATE A NEW ACCOUNT</h1>
        <div class="container">
            <form action="" method="POST" id="validateLogin">
                <div class="form-group">


                    <label for="Username">Username</label>
                    <input type="text" class="form-control"
id="txtUsername" placeholder="Enter Username" />
                </div>
                <div class="form-group">
                    <label for="Email">Email</label>
                    <input type="text" class="form-control" id="txtEmail"
placeholder="Enter Email" />
                </div>

                <div class="form-group">
                    <label for="Mobile Number">Mobile Number</label>
                    <input type="number" class="form-control"
id="txtNumber" placeholder="Enter Mobile Number" />
                </div>
                <div class="form-group">
                    <label for="Password">Password</label>
```

```
                    <input type="password" class="form-control"
id="txtPassword" placeholder="Enter Password" />
                </div>
                <div class="form-group">
                    <label
for="Address"><Address>Address</Address></label>
                    <textarea rows="2" cols="5" class="form-control"
id="txtAddress" placeholder="Enter Address"></textarea>
                </div>

                <button type="button" class="btn btn-primary"
id="btnLogin">Create</button>
            </form>
        </div>
    </body>
```

OUTPUT:

Fig.7.1

Login page:

```html
<!DOCTYPE html>
<html>
    <head>
        <link href="bootstrap-4.3.1-dist/css/bootstrap.min.css"
rel="StyleSheet" />
        <script type="text/javascript"
src="bootstrap-4.3.1-dist/js/bootstrap.min.js"></script>
        <script type="text/javascript"
src="bootstrap-4.3.1-dist/js/jquery.min.js"></script>
        <script type="text/javascript">
            $(document).ready(function(){
                $("#btnLogin").click(function()
                {
                    var val1 = $("#login-name").val();
                    var val2 = $("#login-pass").val();

                    var reg=/^[a-z A-Z]{6,12}$/;
                    var
reg1=/^((?=.*\d)(?=.*[a-z])(?=.*[A-Z])(?=.*[\W]).{6,20})$/;
                    if(val1 == '' && val2 == ''){
                        $('input[type="text"]').css("border","2px solid
red");

                        window.alert('Please enter email and password');

                    }
                    else{
                        if(reg.test(val1) && reg1.test(val2)){
                            window.alert('valid');
                        }
                        else{
                            window.alert('Invalid');

                        }
                    }
                });
            });
        </script>
```

```css
<style>
    * {
box-sizing: border-box;
    }

    *:focus {
        outline: none;
    }
    body {
    font-family: Arial;
    background-image:
url("http://getwallpapers.com/wallpaper/full/5/a/b/693674-top-hospital-wal
lpapers-1920x1080-full-hd.jpg");
    padding: 50px;
    background-size: 100%;
    background-repeat: no-repeat;
    }
    .login {
    margin: 20px auto;
    width: 300px;
    }
    .login-screen {
    background-color: #FFF;
    padding: 20px;
    border-radius: 5px
    }

    .app-title {
    text-align: center;
    color: #777;
    }

    .login-form {
    text-align: center;
    }
    .control-group {
    margin-bottom: 10px;
```

```css
}

input {
text-align: center;
background-color: #ECF0F1;
border: 2px solid transparent;
border-radius: 3px;
font-size: 16px;
font-weight: 200;
padding: 10px 0;
width: 250px;
transition: border .5s;
}

input:focus {
border: 2px solid #3498DB;
box-shadow: none;
}

.btn {
  border: 2px solid transparent;
  background: #3498DB;
  color: #ffffff;
  font-size: 16px;
  line-height: 25px;
  padding: 10px 0;
  text-decoration: none;
  text-shadow: none;
  border-radius: 3px;
  box-shadow: none;
  transition: 0.25s;
  display: block;
  width: 250px;
  margin: 0 auto;
}

.btn:hover {
```

```
        background-color: #2980B9;
    }


    .login-link {
      font-size: 12px;
      color: #444;
      display: block;
        margin-top: 12px;
    }
  </style>
  </head>
<body>
    <div class="login">
      <div class="login-screen">
          <div class="app-title">
              <h1>Login</h1>
          </div>

          <div class="login-form">
              <div class="control-group">
              <input type="text" class="login-field" value=""
placeholder="username" id="login-name">
              <label class="login-field-icon fui-user"
for="login-name"></label>
              </div>

              <div class="control-group">
              <input type="password" class="login-field" value=""
placeholder="password" id="login-pass">
              <label class="login-field-icon fui-lock"
for="login-pass"></label>
              </div>

              <a class="btn btn-primary btn-large btn-block"
id="btnLogin" href="hospital.html">login</a>
              <a class="login-link" href="registration.html">new
user?</a>
```

```
            </div>
        </div>
    </div>
</body>
</html>
```

Output:
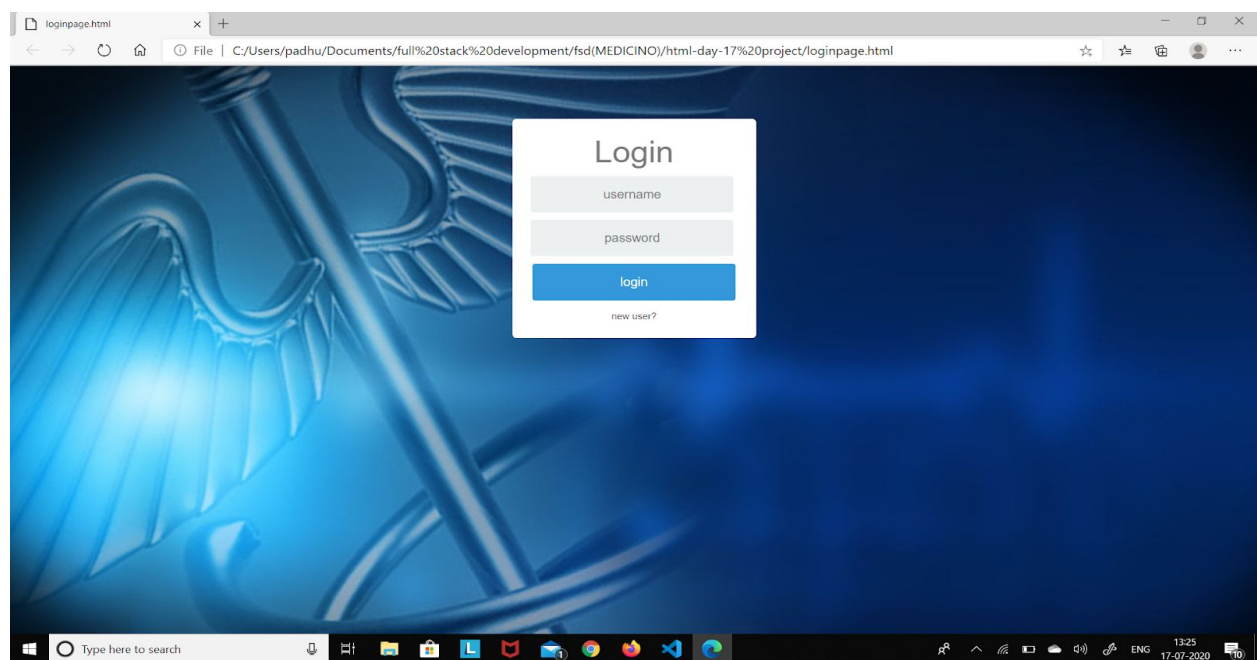
fig.7.2

Medicino home page:

```html
<!DOCTYPE html>
<html>
    <head>
        <title>Hospital home  </title>
        <link rel="stylesheet"
href="bootstrap-4.3.1-dist/css/bootstrap.min.css"/>
        <script rel="stylesheet"
src="bootstrap-4.3.1-dist/js/bootstrap.min.js"></script>
        <style type="text/css">
        </style>
        <style>
            h1{
                text-align: center;
                font-weight: 600;
                font-style:normal;


            }
             html,body{
             background-image:
url("https://static-news.moneycontrol.com/static-mcnews/2017/12/Shalby_Hos
pital-770x433.jpg");
             background-size: cover;
             height: 100%;
             padding: 10px;
             }
             h1{
                 text-align: center;
                 font-family:'Times New Roman', Times, serif;
                 color: black;
                 font-style:oblique;


             }
             h2,h3{
                 color: black;
                 text-align:left ;
                 font-variant: small-caps;
                 font-style: italic;
```

```css
            font-family:serif;
        }
        h5{
            text-align: right;
            color: darkgreen;
            font-style: italic;


        }


        a{
            font-size: x-large;
            font-style: italic;
            font-family: serif;
        }
        #a2{
            text-align: right;
        }
        .button4 {
            font-size: 20px;
            background-color: lightcyan;
            border: none;
            }


        li{


            font-weight: lighter;
            font-style: italic;
            background-color: lightcyan;
        }
    </style>
  </head>
  <body>
    <h1>MEDICINO</h1><br/><br/><br/>
    <nav class="navbar navbar-expand-lg navbar ">
        <div class="container">
            <button class="navbar-toggler" type="button"
data-toggle="collapse" data-target="#navbar10">
```

```html
                <span class="navbar-toggler-icon"></span>
            </button>
        <div class="navbar-collapse collapse" id="navbar10">
            <ul class="navbar-nav nav-fill w-100">
        <li class="nav-item active">
            <a class="nav-link font-weight-bold"
href="doctor.html">DOCTOR</a></li>
        <li class="nav-item">
            <a class="nav-link font-weight-bold"
href="receptionist.html">RECEPTIONIST </a></li>
        <li class="nav-item">
            <a class="nav-link font-weight-bold"
href="patient.html">PATIENT</a></li>
        <li class="nav-item">
            <a class="nav-link font-weight-bold"
href="nurse.html">NURSE</a></li>
        <li class="nav-item">
            <a class="nav-link font-weight-bold"
href="admin.html">ADMINS</a></li>
        </ul>
        </div>
        </div>
        </nav><br/><br/>
        <h2>We are medicino </h2>
        <h3>A Medical clinic </h3><br/><br/><br/><br/>

        <h5>join us for better health and a happy life</h5><br/>
        <div id="a2" class="col-mid-4">
         <button class="button button4" ><a href="appointment.html">
Appointment</a></button><br><br>
         <button class="button button4 " ><img
src="http://cdn.onlinewebfonts.com/svg/img_356268.svg" height="20"
width="20"/><a href="loginpage.html"> Logout</a></button>
        </div>
    </body>
</html>
```

Output:

Fig.7.3

Doctor portal:

```html
<!DOCTYPE html>
<html>
    <head>
        <title>Hospital home  </title>
        <link rel="stylesheet"
href="bootstrap-4.3.1-dist/css/bootstrap.min.css"/>
        <script rel="stylesheet"
src="bootstrap-4.3.1-dist/js/bootstrap.min.js"></script>
        <style type="text/css">
        </style>
        <style>
            h1{
                text-align: center;
                font-weight: 600;
                font-style:normal;


            }
             html,body{
```

```css
        background-image:
url("https://static-news.moneycontrol.com/static-mcnews/2017/12/Shalby_Hos
pital-770x433.jpg");
        background-size: cover;
        height: 100%;
        padding: 10px;
        }
        h1{
            text-align: center;
            font-family:'Times New Roman', Times, serif;
            color: black;
            font-style:oblique;


        }
        h2,h3{
            color: black;
            text-align:left ;
            font-variant: small-caps;
            font-style: italic;
            font-family:serif;
        }
        h5{
            text-align: right;
            color: darkgreen;
            font-style: italic;


        }

        a{
            font-size: x-large;
            font-style: italic;
            font-family: serif;
        }
        #a2{
            text-align: right;
        }
        li{
```

```html
                    font-weight: lighter;
                    font-style: italic;
                    background-color: lightcyan;
                }
        </style>
    </head>
    <body>
        <h1>MEDICINO</h1><br/><br/><br/>
        <nav class="navbar navbar-expand-lg navbar ">
            <div class="container">
                <button class="navbar-toggler" type="button"
data-toggle="collapse" data-target="#navbar10">
                    <span class="navbar-toggler-icon"></span>
                </button>
            <div class="navbar-collapse collapse" id="navbar10">
                <ul class="navbar-nav nav-fill w-100">
            <li class="nav-item active">
                <a class="nav-link font-weight-bold"
href="doctor.html">DOCTOR</a></li>
            <li class="nav-item">
                <a class="nav-link font-weight-bold"
href="receptionist.html">RECEPTIONIST </a></li>
            <li class="nav-item">
                <a class="nav-link font-weight-bold"
href="patient.html">PATIENT</a></li>
            <li class="nav-item">
                <a class="nav-link font-weight-bold"
href="nurse.html">NURSE</a></li>
            <li class="nav-item">
                <a class="nav-link font-weight-bold"
href="admin.html">ADMINS</a></li>
        </ul>
        </div>
        </div>
        </nav><br/><br/>
        <h2>We are medicino </h2>
```

```
        <h3>A Medical clinic </h3><br/><br/><br/><br/>


        <h5>join us for better health and a happy life</h5><br/>
        <div id="a2" class="col-mid-4">
         <button type="button" class="btn btn-info"><a
href="appointment.html"> Appointment</a></button>
        </div>
    </body>
</html>
```

Output:

Fig.7.4

Nurse portal:

```
<!DOCTYPE html>
<html>
    <head>
        <title>bootstrap Nav ber Fixed</title>
        <link rel="stylesheet"
href="bootstrap-4.3.1-dist/css/bootstrap.min.css"/>
        <script rel="stylesheet"
src="bootstrap-4.3.1-dist/js/bootstrap.min.js"></script>
        <style type="text/css">
```

```css
        body{

background-image:url("http://i.huffpost.com/gen/3709316/images/o-STUDENT-N
URSE-facebook.jpg") ;
            background-repeat: no-repeat;
            padding: 10px;
        }
        img{
            height: 50px;
            width: 50px;
        }
        a{
            background-color: whitesmoke;
            font-size: x-large;
            font-family: serif;
                font-style: italic;
        }
        h1{
            text-align: center;
            font-weight: bold;
            color: whitesmoke;
            font-family: serif;
                font-style: italic;
        }
        </style>
    </head>
    <body>
        <h1>NURSE</h1><br/><br/><br/>
        <nav class="navbar navbar-expand-lg navbar-light ">
            <div class="container">
                <button class="navbar-toggler" type="button"
data-toggle="collapse" data-target="#navbar10">
                    <span class="navbar-toggler-icon"></span>
                </button>
            <div class="navbar-collapse collapse" id="navbar10">
                <ul class="navbar-nav nav-fill w-100">
```
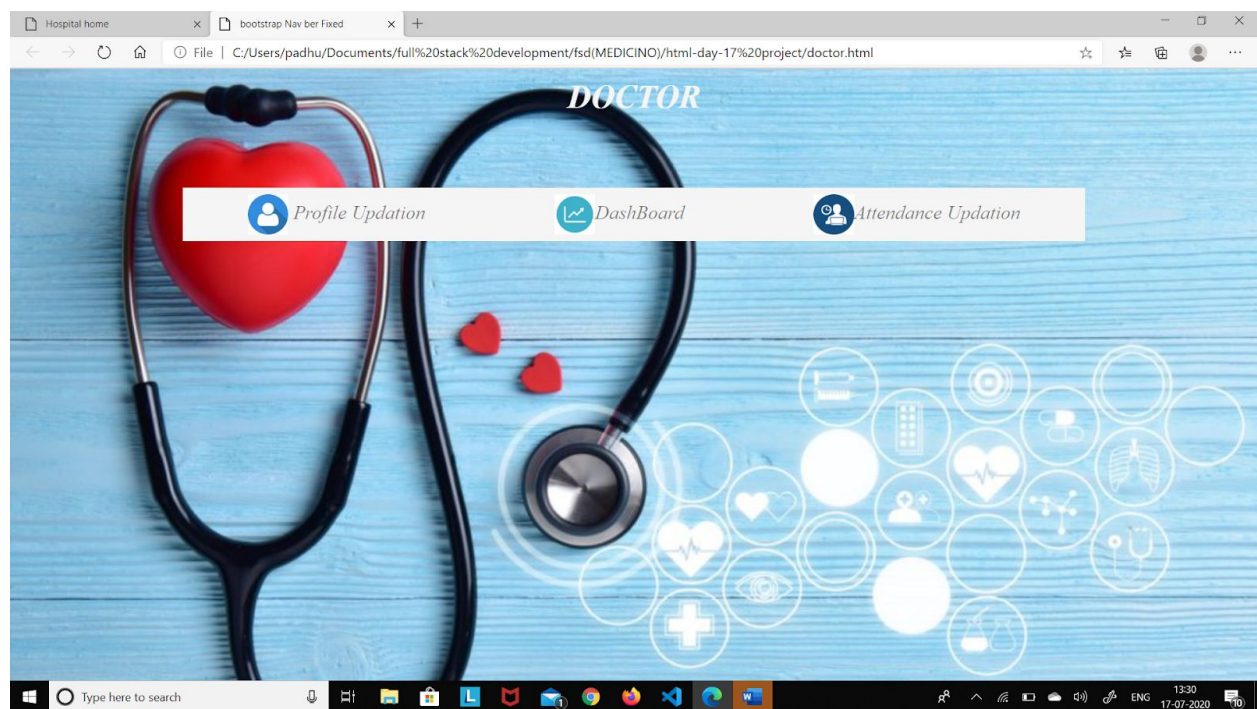
```html
              <li class="nav-item"><a class="nav-link"
href="profile.html"><img
src="https://tse4.mm.bing.net/th?id=OIP.gWpP-7yKnLihxUfpQdZLwQHaHa&pid=Api
&P=0&w=300&h=300"/> Profile Updation</a></li>
              <li class="nav-item"><a class="nav-link"
href="dashboard-nurse.html"><img
src="https://tse4.mm.bing.net/th?id=OIP.fY3Gj76BzVyvIxvrdmum3wHaHa&pid=Api
&P=0&w=300&h=300" />DashBoard</a></li>
              <li class="nav-item"><a class="nav-link"
href="attendance.html"><img
src="https://tse1.mm.bing.net/th?id=OIP.8mblAizibbqKE0pQCRI8EwHaHa&pid=Api
&P=0&w=300&h=300" />Attendance Updation</a></li>


          </ul>
          </div>
          </div>
          </nav>



      </body>
</html>
```

Output:
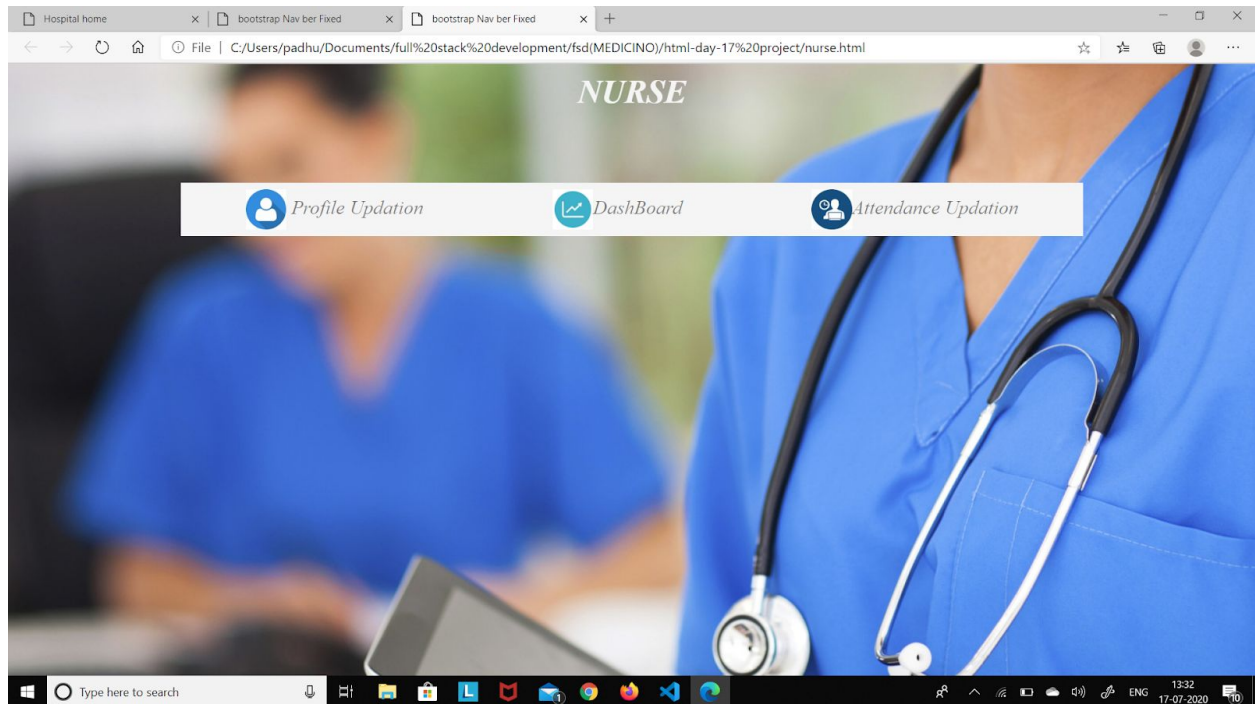
fig.7.5

Receptionist portal:

```html
<!DOCTYPE html>
<html>
    <head>
        <title>bootstrap Nav ber Fixed</title>
        <link rel="stylesheet"
href="bootstrap-4.3.1-dist/css/bootstrap.min.css"/>
        <script rel="stylesheet"
src="bootstrap-4.3.1-dist/js/bootstrap.min.js"></script>
        <style type="text/css">
        body{

background-image:url("https://img.rawpixel.com/s3fs-private/rawpixel_image
s/website_content/440-kaboompics-3009.jpg?w=800&dpr=1&fit=default&crop=def
ault&auto=format&fm=pjpg&q=75&vib=3&con=3&usm=15&bg=F4F4F3&ixlib=js-2.2.1&
s=6c12a7cab9e7024bbb01bb6ab7ca7a8e") ;
            background-repeat: no-repeat;
            background-size: 100%;
            padding: 10px;
        }
        img{
```

```html
            height: 50px;
            width: 50px;
        }
        a{
            background-color: whitesmoke;
            font-size: x-large;
            font-family: serif;
                font-style: italic;
        }
        h1{
            text-align: center;
            font-weight: bold;
            color: whitesmoke;
            font-family: serif;
                font-style: italic;
        }
        </style>
    </head>
    <body>
        <h1>RECEPTIONIST</h1><br/><br/><br/>
        <nav class="navbar navbar-expand-lg navbar-light ">
            <div class="container">
                <button class="navbar-toggler" type="button"
data-toggle="collapse" data-target="#navbar10">
                    <span class="navbar-toggler-icon"></span>
                </button>
            <div class="navbar-collapse collapse" id="navbar10">
                <ul class="navbar-nav nav-fill w-100">
            <li class="nav-item">
                <a class="nav-link" href="profile.html"><img
src="https://tse4.mm.bing.net/th?id=OIP.gWpP-7yKnLihxUfpQdZLwQHaHa&pid=Api
&P=0&w=300&h=300"/> Profile Updation</a></li>
            <li class="nav-item"><a class="nav-link"
href="attendance.html"><img
src="https://tse1.mm.bing.net/th?id=OIP.8mblAizibbqKE0pQCRI8EwHaHa&pid=Api
&P=0&w=300&h=300" />Attendance Updation</a></li>
```

```
            </ul>
        </div>
      </div>
    </nav>
  </body>
</html>
```

Output:

Admin portal:

```
<!DOCTYPE html>
<html>
    <head>
        <title>bootstrap Nav ber Fixed</title>
        <link rel="stylesheet"
href="bootstrap-4.3.1-dist/css/bootstrap.min.css"/>
        <script rel="stylesheet"
src="bootstrap-4.3.1-dist/js/bootstrap.min.js"></script>
        <style type="text/css">
        body{
```
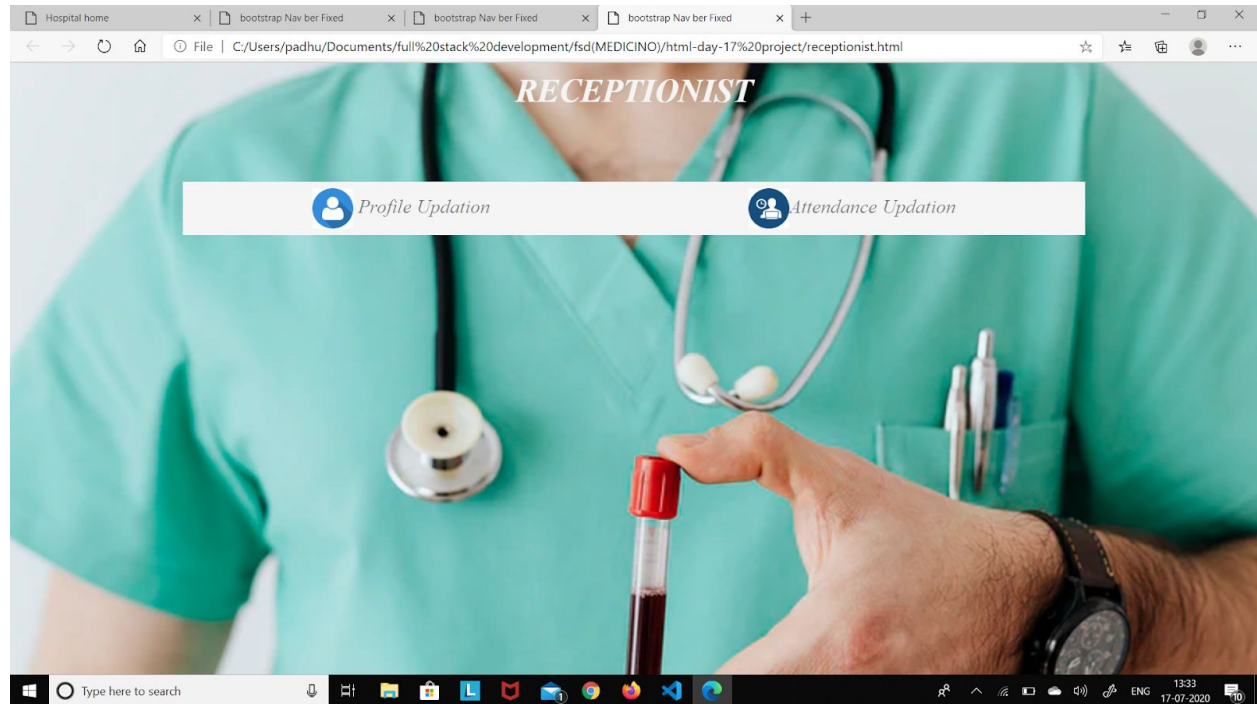
```css
background-image:url("https://www.som.com/FILE/25189/nslij_1575x900_eduard
hueber_archphoto_updated_01jpg.jpg") ;
        background-repeat: no-repeat;
        background-size: 100%;
        padding: 10px;
    }
    img{
        height: 50px;
        width: 50px;
    }
    a{
        background-color: whitesmoke;
        font-size: x-large;
        font-family: serif;
            font-style: italic;
    }
    h1{
        text-align: center;
        font-weight: bold;
        color: white;
        font-family: serif;
            font-style: italic;
    }
    </style>
</head>
<body>
    <h1>ADMINS</h1><br/><br/><br/>
    <nav class="navbar navbar-expand-lg navbar-light ">
        <div class="container">
            <button class="navbar-toggler" type="button"
data-toggle="collapse" data-target="#navbar10">
                <span class="navbar-toggler-icon"></span>
            </button>
        <div class="navbar-collapse collapse" id="navbar10">
            <ul class="navbar-nav nav-fill w-100">
```

```
              <li class="nav-item"><a class="nav-link"
href="profile.html"><img
src="https://tse4.mm.bing.net/th?id=OIP.gWpP-7yKnLihxUfpQdZLwQHaHa&pid=Api
&P=0&w=300&h=300"/> PROFILE </a></li>
              <li class="nav-item"><a class="nav-link"
href="reports.html"><img
src="https://tse3.mm.bing.net/th?id=OIP.wRrfxRuWY14hvmfyuc2aOgHaHa&pid=Api
&P=0&w=300&h=300"/>REPORTS</a></li>


          </ul>
        </div>
        </div>
        </nav>


    </body>
</html>
```

Output:

<div align="center">

fig.7.7

</div>

Patient portal:

```
<!DOCTYPE html>
```

```html
<html>
    <head>
        <link href="bootstrap-4.3.1-dist/css/bootstrap.min.css"
rel="StyleSheet" />
        <script type="text/javascript"
src="bootstrap-4.3.1-dist/js/bootstrap.min.js"></script>
        <script type="text/javascript"
src="bootstrap-4.3.1-dist/js/jquery.min.js"></script>
        <script type="text/javascript">
            $(document).ready(function(){
                $("#btnLogin").click(function(){
                    var val1 = $("#txtname").val();
                    var val2 = $("#txtEmail").val();
                    var val3 = $("#txtNumber").val();
                    var val4 = $("#txtPassword").val();
                    var val5 = $("#txtAddress").val();
                    var us = /^[a-z A-Z]{6,12}$/;
                    var em = /^[a-z A-Z 0-9 . -
_]{4,8}[@][a-z]{3,5}[.][a-z]{2,4}$/;
                    var num = /^[6-9][0-9]{9}$/;
                    var pas = /^[a-z A-Z 0-9 ! @ # $]{6,12}$/;
                    var add = /^[a-z A-Z 0-9]{6,12}$/;
                    if(val1=='' && val2=='' && val3=='' && val4=='' &&
val5==''){
                        $('input[type="text"]').css("border","2px solid
red");
                        $('input[type="number"]').css("border","2px solid
red");
                        window.alert('Please enter all fields');
                    }
                    else{

                        if(us.test(val1) && em.test(val2) &&
num.test(val3) && pas.test(val4) && add.test(val5)){
                            window.alert('Valid');
                        }
                        else{
```
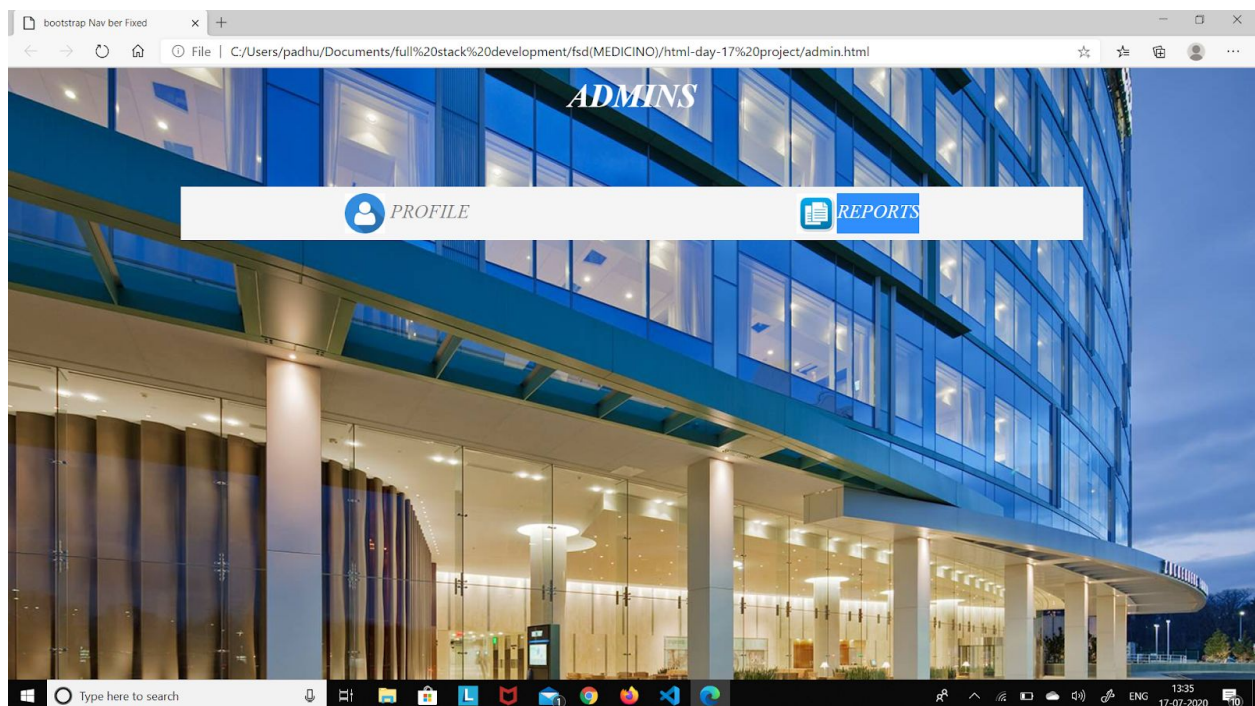
```
                    window.alert('Invalid');
                }
            }
        });
    });

</script>
<style>
    h1{
        text-align: center;
        color: black;
        font-family: serif;
        font-style: italic;
    }
    body{
        background-image:
url("https://associatesinmedtox.com/wp-content/uploads/2016/12/lvkwE1.jpg"
);
        color: black;


    }

</style>
</head>
<body>
    <h1>PATIENT INFORMATION </h1>
    <div class="container">
        <form action="" method="POST" id="validateLogin">
            <div class="form-group">
                <label for="name">Name</label>
                <input type="text" class="form-control" id="txtname"
placeholder="Enter name" />
            </div>
            <div class="form-group">
                <label for="Email">Email</label>
                <input type="text" class="form-control" id="txtEmail"
placeholder="Enter Email" />
```

```
                        </div>
                        <div class="form-group">
                            <label for="Mobile Number">Mobile Number</label>
                            <input type="number" class="form-control"
id="txtNumber" placeholder="Enter Mobile Number" />
                        </div>
                        <div class="form-group">
                            <label for="Password">Password</label>
                            <input type="text" class="form-control"
id="txtPassword" placeholder="Enter Password" />
                        </div>
                        <div class="form-group">
                            <label
for="Address"><Address>Address</Address></label>
                            <textarea rows="5" cols="10" class="form-control"
id="txtAddress" placeholder="Enter Address"></textarea>
                        </div>
                        <button type="button" class="btn btn-primary"
id="btnLogin">Update</button>
                    </form>
                </div>
        </body>
```

Output:

Fig.7.8

Profile updation pages for doctor ,nurse ,receptionist and admin:

Admin profile code:

```html
<!DOCTYPE html>

<html>

    <head>

        <link href="bootstrap-4.3.1-dist/css/bootstrap.min.css"
rel="StyleSheet" />

        <script type="text/javascript"
src="bootstrap-4.3.1-dist/js/bootstrap.min.js"></script>

        <script type="text/javascript"
src="bootstrap-4.3.1-dist/js/jquery.min.js"></script>

        <script type="text/javascript">

            $(document).ready(function(){

                $("#btnLogin").click(function(){

                    var val1 = $("#txtUsername").val();

                    var val2 = $("#txtEmail").val();

                    var val3 = $("#txtNumber").val();

                    var val4 = $("#txtPassword").val();

                    var val5 = $("#txtAddress").val();

                    var us = /^[a-z A-Z]{6,12}$/;

                    var em =
/^([a-zA-Z0-9_\-\.]+)@([a-zA-Z0-9_\-\.]+)\.([a-zA-Z]{2,5})$/;

                    var num = /^[6-9][0-9]{9}$/;

                    var pas = /^[a-z A-Z 0-9 ! @ # $]{6,12}$/;


                    if(val1=='' && val2=='' && val3=='' && val4=='' &&
val5==''){

                        $('input[type="text"]').css("border","2px solid
red");

                        $('input[type="number"]').css("border","2px solid
red");

                        window.alert('Please enter all fields');

                    }
                    else{


                        if(us.test(val1) && em.test(val2) &&
num.test(val3) && pas.test(val4)){
```

```javascript
                        window.alert('Valid');
                        var api_url = "http://localhost:3002/admins";
            var data = {
                username: $("#txtUsername").val(),
                emailid: $("#txtEmail").val(),
                mobilenumber: $("#txtNumber").val(),
                password1: $("#txtPassword").val(),
                address:$("#txtAddress").val(),
                }
            $.ajax({
                url: api_url,
                type: "POST",
                dataType: "Json",
                data: data,
                success: function (data) {
                    return;
                },
                error: function () {
                },
            });


                        }
                        else{
                            window.alert('Invalid');
                        }
                    }
                });
            });

    </script>
    <style>
        body{

background-image:url("https://associatesinmedtox.com/wp-content/uploads/20
16/12/lvkwE1.jpg");
            color: black;
        }
```

```
            </style>
    </head>
    <body>
        <div class="container">
            <form action="" method="POST" id="validateLogin">
                <div class="form-group">
                    <label for="Username">Username</label>
                    <input type="text" class="form-control"
id="txtUsername" placeholder="Enter Username" />
                </div>
                <div class="form-group">
                    <label for="Email">Email</label>
                    <input type="text" class="form-control" id="txtEmail"
placeholder="Enter Email" />
                </div>
                <div class="form-group">
                    <label for="Mobile Number">Mobile Number</label>
                    <input type="number" class="form-control"
id="txtNumber" placeholder="Enter Mobile Number" />
                </div>
                <div class="form-group">
                    <label for="Password">Password</label>
                    <input type="password" class="form-control"
id="txtPassword" placeholder="Enter Password" />
                </div>
                <div class="form-group">
                    <label
for="Address"><Address>Address</Address></label>
                    <textarea rows="5" cols="10" class="form-control"
id="txtAddress" placeholder="Enter Address"></textarea>
                </div>
                <button type="button" class="btn btn-primary"
id="btnLogin">Update</button>
            </form>
        </div>
    </body>
```
Nurse profile page:

```html
<!DOCTYPE html>
<html>
    <head>
        <link href="bootstrap-4.3.1-dist/css/bootstrap.min.css"
rel="StyleSheet" />
        <script type="text/javascript"
src="bootstrap-4.3.1-dist/js/bootstrap.min.js"></script>
        <script type="text/javascript"
src="bootstrap-4.3.1-dist/js/jquery.min.js"></script>
        <script type="text/javascript">
            $(document).ready(function(){
                $("#btnLogin").click(function(){
                    var val1 = $("#txtUsername").val();
                    var val2 = $("#txtEmail").val();
                    var val3 = $("#txtNumber").val();
                    var val4 = $("#txtPassword").val();
                    var val5 = $("#txtAddress").val();
                    var us = /^[a-z A-Z]{6,12}$/;
                    var em =
/^([a-zA-Z0-9_\-\.]+)@([a-zA-Z0-9_\-\.]+)\.([a-zA-Z]{2,5})$/;
                    var num = /^[6-9][0-9]{9}$/;
                    var pas = /^[a-z A-Z 0-9 ! @ # $]{6,12}$/;

                    if(val1=='' && val2=='' && val3=='' && val4=='' &&
val5==''){
                        $('input[type="text"]').css("border","2px solid
red");
                        $('input[type="number"]').css("border","2px solid
red");
                        window.alert('Please enter all fields');
                    }
                    else{

                        if(us.test(val1) && em.test(val2) &&
num.test(val3) && pas.test(val4)){
                            window.alert('Valid');
                            var api_url = "http://localhost:3002/nurses";
```

```javascript
            var data = {
              username: $("#txtUsername").val(),
              emailid: $("#txtEmail").val(),
              mobilenumber: $("#txtNumber").val(),
              password1: $("#txtPassword").val(),
              address:$("#txtAddress").val(),
              }
            $.ajax({
              url: api_url,
              type: "POST",
              dataType: "Json",
              data: data,
              success: function (data) {
                return;
              },
              error: function () {
              },
            });


                    }
                    else{
                        window.alert('Invalid');
                    }
                }
            });
        });

    </script>
    <style>
        body{

background-image:url("https://associatesinmedtox.com/wp-content/uploads/20
16/12/lvkwE1.jpg");
            color: black;
        }
    </style>
</head>
```

```html
    <body>
        <div class="container">
            <form action="" method="POST" id="validateLogin">
                <div class="form-group">
                    <label for="Username">Username</label>
                    <input type="text" class="form-control"
id="txtUsername" placeholder="Enter Username" />
                </div>
                <div class="form-group">
                    <label for="Email">Email</label>
                    <input type="text" class="form-control" id="txtEmail"
placeholder="Enter Email" />
                </div>
                <div class="form-group">
                    <label for="Mobile Number">Mobile Number</label>
                    <input type="number" class="form-control"
id="txtNumber" placeholder="Enter Mobile Number" />
                </div>
                <div class="form-group">
                    <label for="Password">Password</label>
                    <input type="password" class="form-control"
id="txtPassword" placeholder="Enter Password" />
                </div>
                <div class="form-group">
                    <label
for="Address"><Address>Address</Address></label>
                    <textarea rows="5" cols="10" class="form-control"
id="txtAddress" placeholder="Enter Address"></textarea>
                </div>
                <button type="button" class="btn btn-primary"
id="btnLogin">Update</button>
            </form>
        </div>
    </body>
```

Receptionist profile page:

```html
<!DOCTYPE html>
```

```html
<html>

    <head>

        <link href="bootstrap-4.3.1-dist/css/bootstrap.min.css"
rel="StyleSheet" />

        <script type="text/javascript"
src="bootstrap-4.3.1-dist/js/bootstrap.min.js"></script>

        <script type="text/javascript"
src="bootstrap-4.3.1-dist/js/jquery.min.js"></script>

        <script type="text/javascript">

            $(document).ready(function(){

                $("#btnLogin").click(function(){

                    var val1 = $("#txtUsername").val();

                    var val2 = $("#txtEmail").val();

                    var val3 = $("#txtNumber").val();

                    var val4 = $("#txtPassword").val();

                    var val5 = $("#txtAddress").val();

                    var us = /^[a-z A-Z]{6,12}$/;

                    var em =
/^([a-zA-Z0-9_\-\.]+)@([a-zA-Z0-9_\-\.]+)\.([a-zA-Z]{2,5})$/;

                    var num = /^[6-9][0-9]{9}$/;

                    var pas = /^[a-z A-Z 0-9 ! @ # $]{6,12}$/;


                    if(val1=='' && val2=='' && val3=='' && val4=='' &&
val5==''){

                        $('input[type="text"]').css("border","2px solid
red");

                        $('input[type="number"]').css("border","2px solid
red");

                        window.alert('Please enter all fields');

                    }
                    else{


                        if(us.test(val1) && em.test(val2) &&
num.test(val3) && pas.test(val4)){

                            window.alert('Valid');

                            var api_url =
"http://localhost:3002/reception";
```

```
                var data = {
                    username: $("#txtUsername").val(),
                    emailid: $("#txtEmail").val(),
                    mobilenumber: $("#txtNumber").val(),
                    password1: $("#txtPassword").val(),
                    address:$("#txtAddress").val(),
                    }
                $.ajax({
                    url: api_url,
                    type: "POST",
                    dataType: "Json",
                    data: data,
                    success: function (data) {
                        return;
                    },
                    error: function () {
                    },
                });


                    }
                    else{
                        window.alert('Invalid');
                    }
                }
            });
        });

    </script>
    <style>
        body{

background-image:url("https://associatesinmedtox.com/wp-content/uploads/20
16/12/lvkwE1.jpg");
            color: black;
        }
    </style>
  </head>
```
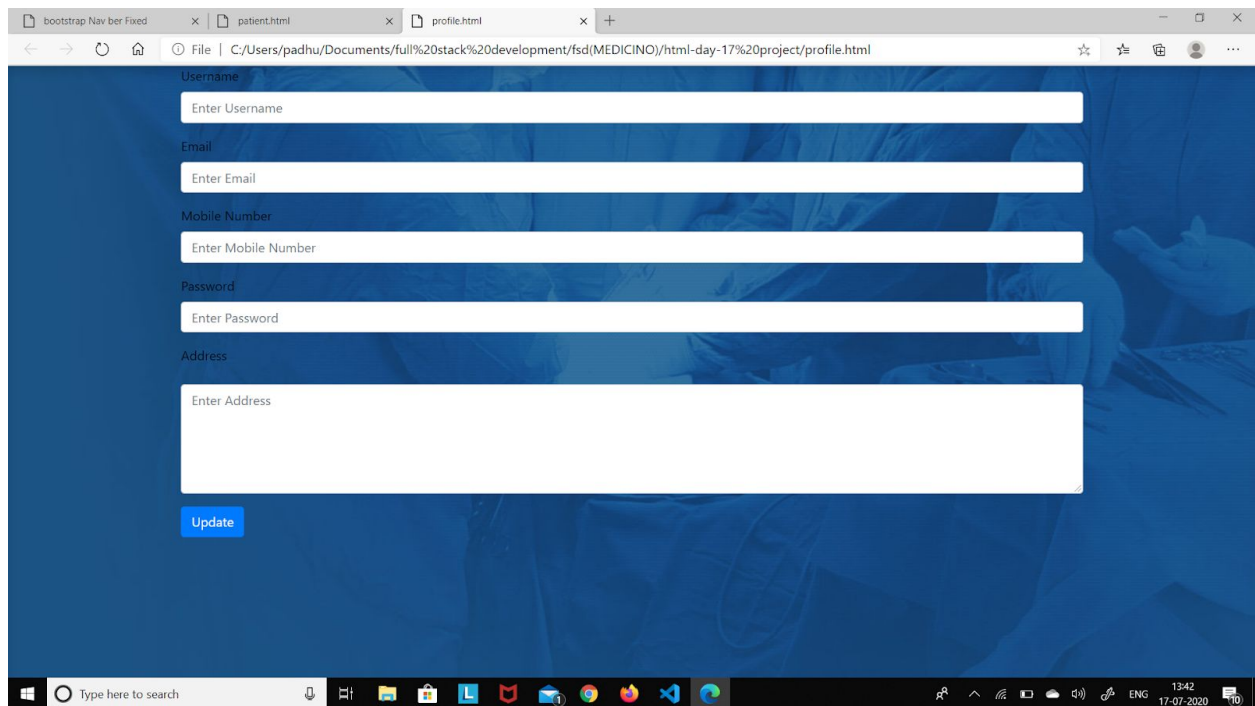
```html
<body>
    <div class="container">
        <form action="" method="POST" id="validateLogin">
            <div class="form-group">
                <label for="Username">Username</label>
                <input type="text" class="form-control"
id="txtUsername" placeholder="Enter Username" />
            </div>
            <div class="form-group">
                <label for="Email">Email</label>
                <input type="text" class="form-control" id="txtEmail"
placeholder="Enter Email" />
            </div>
            <div class="form-group">
                <label for="Mobile Number">Mobile Number</label>
                <input type="number" class="form-control"
id="txtNumber" placeholder="Enter Mobile Number" />
            </div>
            <div class="form-group">
                <label for="Password">Password</label>
                <input type="password" class="form-control"
id="txtPassword" placeholder="Enter Password" />
            </div>
            <div class="form-group">
                <label
for="Address"><Address>Address</Address></label>
                <textarea rows="5" cols="10" class="form-control"
id="txtAddress" placeholder="Enter Address"></textarea>
            </div>
            <button type="button" class="btn btn-primary"
id="btnLogin">Update</button>
        </form>
    </div>
</body>
```

Output:

Fig.7.9

Attendance updation page:

```html
<!DOCTYPE html>
<html>
    <head>
        <link href="bootstrap-4.3.1-dist/css/bootstrap.min.css"
rel="StyleSheet" />
```

```html
        <script type="text/javascript"
src="bootstrap-4.3.1-dist/js/bootstrap.min.js"></script>
        <script type="text/javascript"
src="bootstrap-4.3.1-dist/js/jquery.min.js"></script>
        <script type="text/javascript">
            $(document).ready(function(){
                $("#btnLogin").click(function()
                {
                    var val1 = $("#txtname").val();
                    var val2 = $("#txtfeedback").val();


                    var reg=/^[A-Z][a-z A-Z]{10,12}$/;
                    if(val1 == '' && val2 == ''){
                        $('input[type="text"]').css("border","2px solid
red");
                        window.alert('Please enter name and feedback');


                    }
                    else{
                        if(reg.test(val1)){
                            window.alert('valid');
                            var api_url =
"http://localhost:3002/attendence";
            var data = {
              name: $("#txtname").val(),
              feedback: $("#txtfeedback").val(),
              }
            $.ajax({
              url: api_url,
              type: "POST",
              dataType: "Json",
              data: data,
              success: function (data) {
                return;
              },
              error: function () {
              },
```

```html
                });
                            }
                            else{
                                window.alert('Invalid');

                            }
                    }
                });
            });
        </script>
        <style>
            h1{
                text-align: center;
            }
            body{
                background-image:
url("https://www.neeyamo.com/assets/images/2017/12/Time-Attendance-Managem
ent.png");
                background-repeat: no-repeat;


            }
        </style>
    </head>
    <body>
        <h1>Attendance Updation </h1>
        <div class="container">
            <form action="" method="POST" id="validateLogin">
                <div class="form-group">
                    <label for="name">Name</label>
                    <input type="text" class="form-control" id="txtname"
placeholder="Enter name" />
                </div>
                <div class="form-group">
                    <label for="feedback">Feedback</label>
                    <textarea class="form-control" id="txtfeedback" >
</textarea>
                </div>
```

```
                <button type="button" class="btn btn-primary"
id="btnLogin" >Update</button>
            </form>
        </div>


    </body>
</html>
```

Output:

Fig.7.10

Doctor dashboard:

```
<!DOCTYPE html>
<html>
    <head>
    <title>dashboard</title>
    <style>
        h3{
```
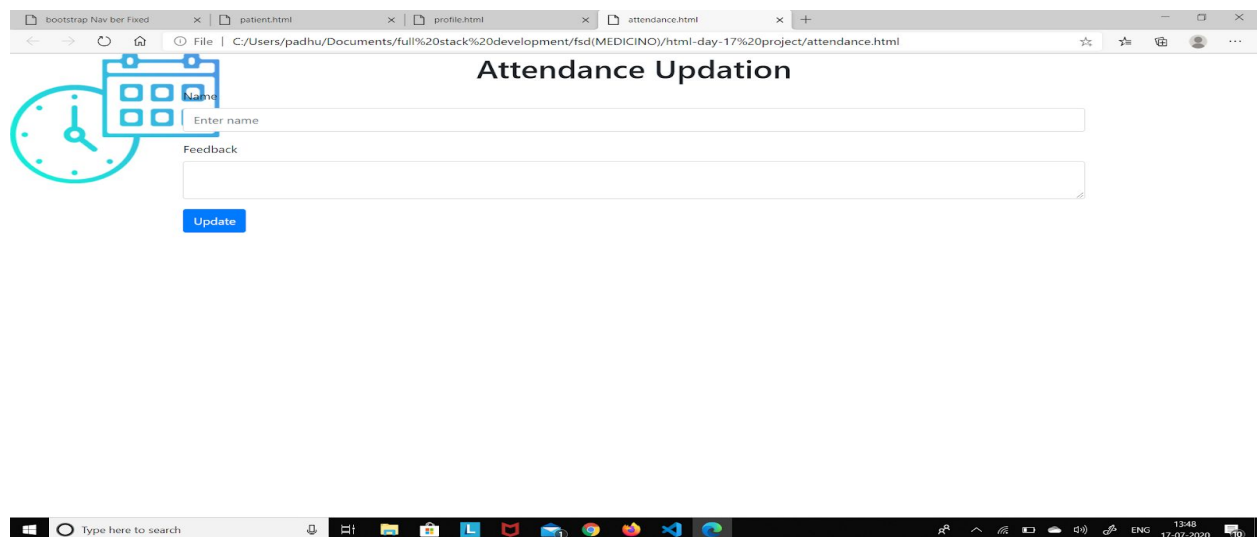
```
            font-weight: 700;


        }
        .a1{
            border:solid 3px black;
        }
        .a2{
            border:solid 3px black;
        }
    </style>
</head>
<body>
    <h3>The doctor to patient graph is as given below</h3>
    <img src="https://www.bmj.com/content/bmj/357/bmj.j2940/F3.large.jpg"
class="a2" height="400px" width="600px"/>
    <img src="https://pbs.twimg.com/media/D-Xh0PdU0AADHak.jpg" class="a1"
height="400px" width="600px"/>
</body>
</html>
```

Output:

Fig.7.11

Nurse dashboard:

```html
<!DOCTYPE html>
<html>
    <head>
    <title>dashboard</title>
    <style>
        h3{
            font-weight: 700;


        }
        img{
            border:solid 3px black;
        }


    </style>
</head>
<body>
    <h3>The Nurse to patient Ratio is as given below</h3>
    <img
src="https://www.njsaferatios.com/uploads/1/0/3/7/103733562/er-graph_orig.
jpg" height="300" width="500"/>
    <h3>Diagnostics</h3>
    <img
src="http://www.socialmedicine.org/wp-content/uploads/2012/07/Image-003.pn
g"/>


</body>
</html>
```
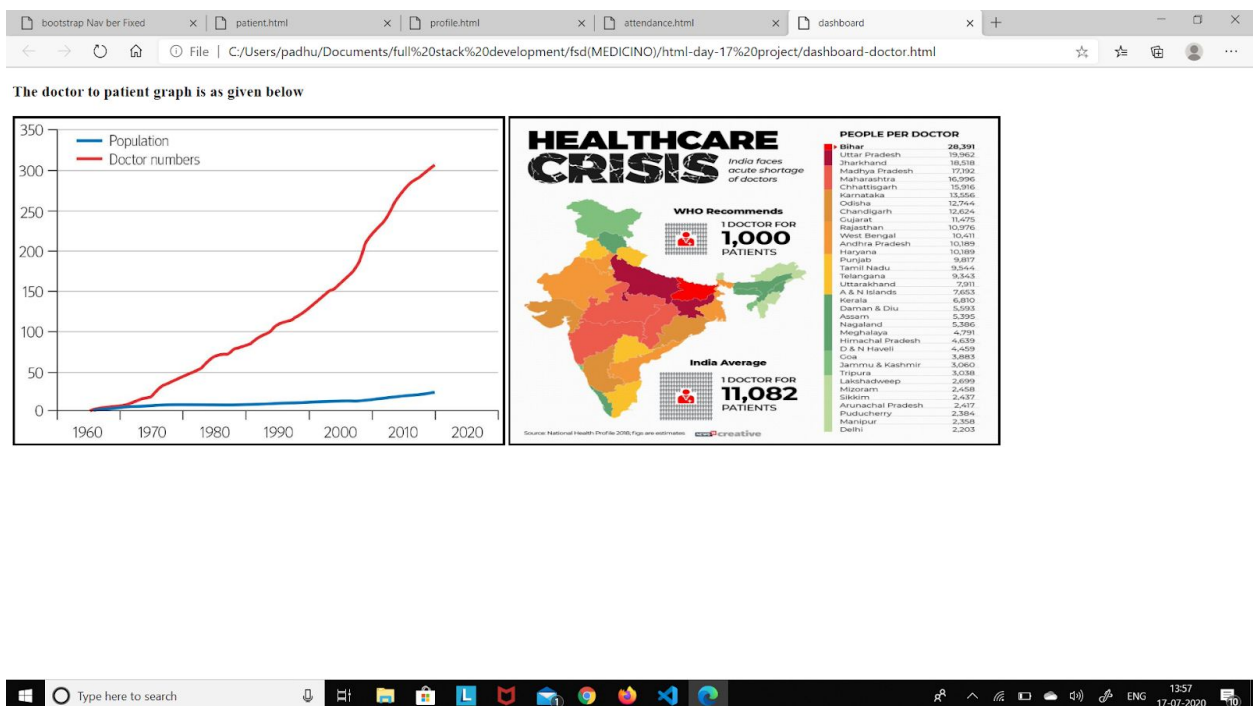
Output:

Fig.7.12

Patient report page in admin portal:

```html
<!DOCTYPE html>
<html>
    <head>
        <link href="bootstrap-4.3.1-dist/css/bootstrap.min.css"
rel="StyleSheet" />
        <script type="text/javascript"
src="bootstrap-4.3.1-dist/js/bootstrap.min.js"></script>
        <script type="text/javascript"
src="bootstrap-4.3.1-dist/js/jquery.min.js"></script>
        <script type="text/javascript">
            $(document).ready(function(){
                $("#btnLogin").click(function(){
                    var val1 = $("#txtUsername").val();
                    var val2 = $("#txtNumber").val();
                    var val3 = $("#txtaddress").val();
                    var val4 = $("#txtstatus").val();
                    var us = /^[a-z A-Z]{6,12}$/;
                    var num = /^[6-9][0-9]{9}$/;
                    if(val1=='' && val2=='' && val3=='' && val4==''){
```
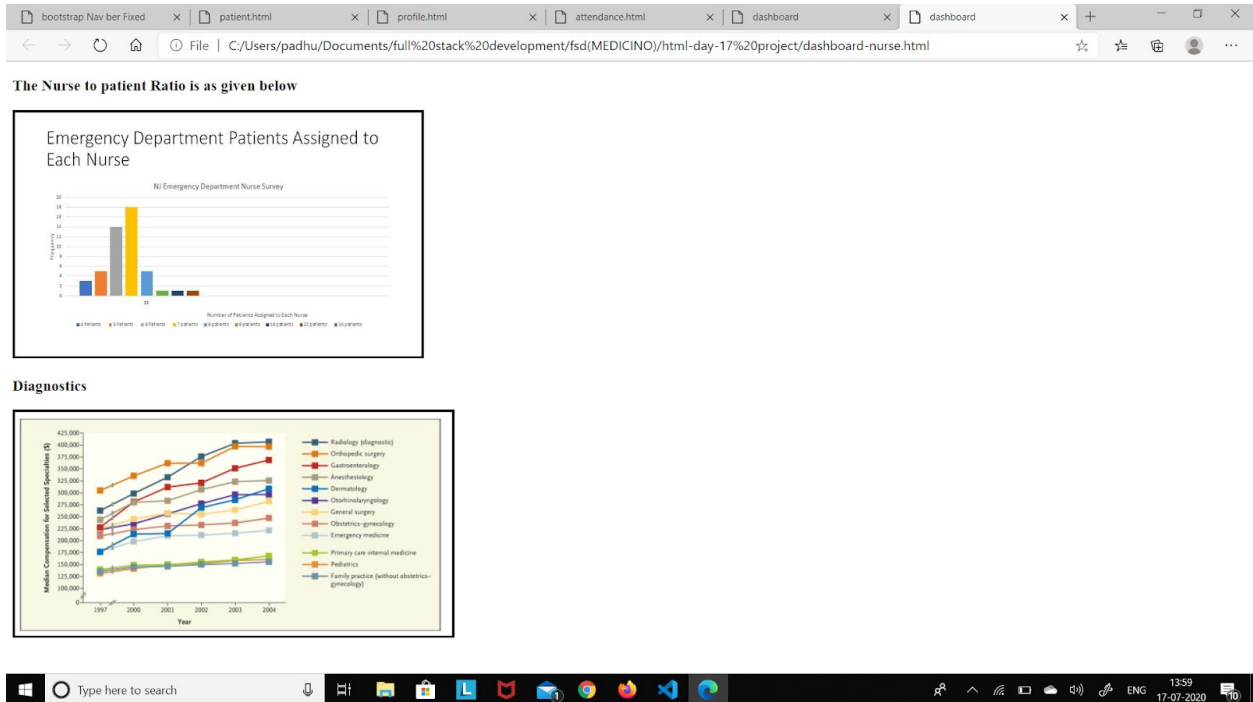
```javascript
                    $('input[type="text"]').css("border","2px solid
red");

                    $('input[type="number"]').css("border","2px solid
red");

                    window.alert('Please enter all fields');
            }

                    if(us.test(val1) && num.test(val2)){
                        window.alert('Valid');
                        var api_url = "http://localhost:3002/reports";
        var data = {
          patientname: $("#txtUsername").val(),
          mobilenumber: $("#txtNumber").val(),
          address:$("#txtAddress").val(),
          status:$("#txtAddress1").val(),
          }
        $.ajax({
          url: api_url,
          type: "POST",
          dataType: "Json",
          data: data,
          success: function (data) {
            return;
          },
          error: function () {
          },
        });
                    }
                    else{
                        window.alert('Invalid');
                    }


        });
        });

    </script>
    <style>
```

```
            body{
                background-image:
url("https://i.pinimg.com/originals/b2/14/42/b214425a7284ce662493da77720b9
410.jpg");
                background-repeat:no-repeat;
                background-size: cover;
            height: 100%;
                }
        </style>
    </head>
    <body>
        <div class="container">
            <form action="" method="POST" id="validateLogin">
                <div class="form-group">
                    <label for="Username">Patient's Name</label>
                    <input type="text" class="form-control"
id="txtUsername" placeholder="Enter patient name" />
                </div>
                <div class="form-group">
                    <label for="Mobile Number">Mobile Number</label>
                    <input type="number" class="form-control"
id="txtNumber" placeholder="Enter Mobile Number" />
                </div>
                <div class="form-group">
                    <label
for="Address"><Address>Address</Address></label>
                    <textarea rows="5" cols="10" class="form-control"
id="txtAddress" placeholder="Enter Address"></textarea>
                </div>
                <div class="form-group">
                    <label for="Address"><Address>Status</Address></label>
                    <textarea rows="5" cols="10" class="form-control"
id="txtAddress1" placeholder="Enter enter the status of
treatment"></textarea>
                </div>
                <button type="button" class="btn btn-primary"
id="btnLogin">Update</button>
```

```
            </form>
        </div>
    </body>
```

Output:

Fig.7.12

Appointment page:

```html
<!DOCTYPE html>
<html>
    <head>
        <link href="bootstrap-4.3.1-dist/css/bootstrap.min.css"
rel="StyleSheet" />
        <script type="text/javascript"
src="bootstrap-4.3.1-dist/js/bootstrap.min.js"></script>
        <script type="text/javascript"
src="bootstrap-4.3.1-dist/js/jquery.min.js"></script>
        <script type="text/javascript">
            $(document).ready(function(){
                $("#btnLogin").click(function(){
                    var val1 = $("#txtname").val();
                    var val2 = $("#txtEmail").val();
                    var val3 = $("#txtNumber").val();
```

```javascript
                    var val5 = $("#txtAddress").val();
                    var us = /^[a-z A-Z]{6,12}$/;
                    var em = /^[a-z A-Z 0-9 . -
]{4,8}[@][a-z]{3,5}[.][a-z]{2,4}$/;
                    var num = /^[6-9][0-9]{9}$/;


                    var add = /^[a-z A-Z 0-9]{6,12}$/;
                    if(val1=='' && val2=='' && val3=='' && val5==''){
                        $('input[type="text"]').css("border","2px solid
red");
                        $('input[type="number"]').css("border","2px solid
red");
                        window.alert('Please enter all fields');
                    }
                    else{

                        if(us.test(val1) && em.test(val2) &&
num.test(val3) && add.test(val5)){
                            window.alert('Valid');
                            var api_url =
"http://localhost:3002/appointment";
            var data = {
              name: $("#txtname").val(),
              email: $("#txtEmail").val(),
              mobilenumber: $("#txtNumber").val(),
              address:$("#txtAddress").val(),
              }
            $.ajax({
              url: api_url,
              type: "POST",
              dataType: "Json",
              data: data,
              success: function (data) {
                return;
              },
              error: function () {
```

```html
            },
        });
                    }
                    else{
                        window.alert('Invalid');
                    }
                }
            });
        });


    </script>
    <style>
        h1{
            text-align: center;
            color: black;
            font-family: serif;
            font-style: italic;
        }
        body{
            background-image:
url("https://associatesinmedtox.com/wp-content/uploads/2016/12/lvkwE1.jpg"
);

            padding: 10px;
            color: black;


        }

    </style>
    </head>
    <body>
        <h1>PATIENT INFORMATION </h1>
        <div class="container">
            <form action="" method="POST" id="validateLogin">
                <div class="form-group">
                    <label for="name">Name</label>
                    <input type="text" class="form-control" id="txtname"
placeholder="Enter name" />
```

```html
                    </div>
                    <div class="form-group">
                        <label for="Email">Email</label>
                        <input type="text" class="form-control" id="txtEmail"
placeholder="Enter Email" />
                    </div>
                    <div class="form-group">
                        <label for="Mobile Number">Mobile Number</label>
                        <input type="number" class="form-control"
id="txtNumber" placeholder="Enter Mobile Number" />
                    </div>
                    <div class="form-group">
                        <label
for="Address"><Address>Address</Address></label>
                        <textarea rows="5" cols="10" class="form-control"
id="txtAddress" placeholder="Enter Address"></textarea>
                    </div>
                    <button type="button" class="btn btn-primary"
id="btnLogin">Book</button>
                </form>
            </div>
        </body>
```
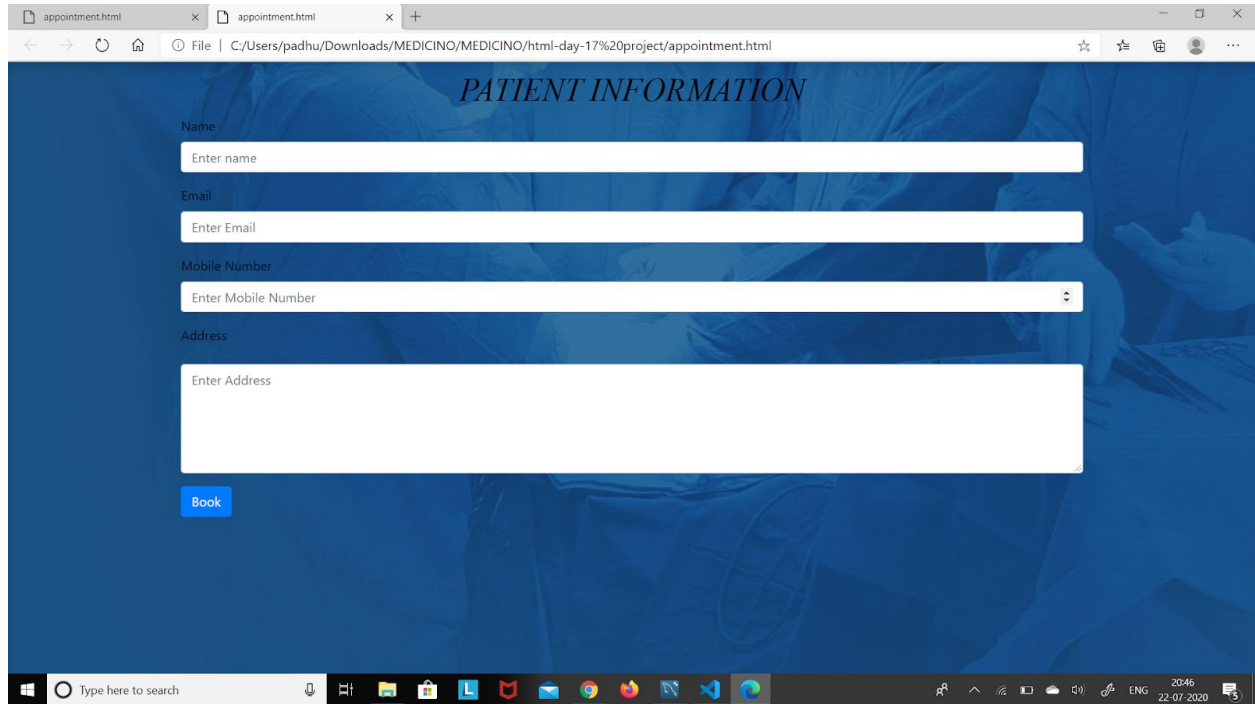
Output:

fig.7.13

CHAPTER-8
MAINTENANCE

Project maintenance:

The process of tracking and enabling project activities in accordance with the project plan is an essential, but often overlooked, factor in overall project success. After spending so much time in the planning phase, many project managers have a tendency to take a step back once the other members of the project team start their work, but experienced project managers know that project monitoring is every bit as important as project planning.

Enterprise projects, in particular, require a steady commitment to project maintenance, simply because they tend to have much longer durations than projects undertaken at smaller organizations. The longer a project runs, the more likely it becomes that a small deviation from the project plan will snowball into a serious issue as the project progresses. No matter what size projects you're managing today, an appreciation for project maintenance can only improve your chances of success. These strategies below can help you keep your eye on the prize even during the longest-running projects.
For maintenance of the website:

1. The database has to be updated regularly according to new available information.
2. Redundant and false information must be removed from the database.
3. Newer versions of PHP and MYSQL can be used for upgradation of web sites

And to improve the overall performance of the system.

CHAPTER-9
FUTURE SCOPE AND FUTURE ENHANCEMENT

This project(hospital management)helps in knowing of information about hospital regarding doctors and patients.The admin of the hospital can easily know the information about ratio of the doctors and patients,doctors attendance,new joinings of hospital staff.It helps to know about the patients information too where admin can easily calculate no.of beds, machinery required for patients treatment and no.of patients recovered.

Project name:

MEDICINO(Hospital management)

CHAPTER-10
CONCLUSION

We have successfully implemented the site 'MEDICINO' with the help of various technologies and tools,we have been able to provide a site which will be live soon and running on the web. We have been successful in our attempt to take care of the needs of both the user as well as the administrator.Finally we hope that this will go a long way in popularizing.