

**MINI PROJECT
(2020-21)**

EXPENSE MANAGER WEBSITE

MID-TERM REPORT



Institute of Engineering & Technology

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Abstract

As we know, the present world is using advanced 4G and 5G technology, so it is easy to manage our budget and expenses on an Online Application rather than on a diary. Moreover, it is difficult to have a pen and diary with us all the time because Some time, we are in office, restaurant or at important place.

In this project, we build a simple expense manager website that can be used by all for tracking their expenses accordingly. The website can be used to plan out the expenses for a group of people. Further, the user can also add bills under the given budget and track her expenses accordingly. This website would be built using HTML, CSS, Bootstrap, JavaScript MySQL and PHP. As we know, HTML is used to structure a website, CSS (cascading style sheets) are used to styling a webpage.

Introduction

1.1 General Introduction to the topic

In this project, we build a simple expense manager website, that manage your daily expenses, manage them between you and your friends. The basic idea behind this project is to ease the process of managing account. As we see, the technology increase day by day, so it is better to manage things online rather than note down with a pen in a diary. The user can add the initial budget for the expenses and give it a title accordingly. Further user can add bills under the budget and track her expenses accordingly.

The technology used in this project are HTML (Hypertext Markup Language), CSS(cascading style sheets), JavaScript, Bootstrap ,SQL(Structured Query Language) and PHP(Hypertext Pre-processor).

The website will contain the following pages:

1. Index Page
2. Sign up Page
3. Login Page
4. About Us Page
5. Home Page
6. Add New Plan Page
7. View Plan Page
8. Expense Distribution Page
9. Add New Expense Page
10. Change Password Page

1.2 Technology Used

1. HTML: Hypertext Markup Language (HTML) is the standard markup language for documents designed to be displayed in a web browser. It can be assisted by technologies such as Cascading Style Sheets (CSS) and scripting languages such as JavaScript.

Web browsers receive HTML documents from a web server or from local storage and render the documents into multimedia web pages. HTML describes the structure of a web page semantically and originally included cues for the appearance of the document.

HTML elements are the building blocks of HTML pages. With HTML constructs, images and other objects such as interactive forms may be embedded into the rendered page. HTML provides a means to create structured documents by denoting structural semantics for text such as headings, paragraphs, lists, links, quotes and other items. HTML elements are delineated by *tags*, written using angle brackets. Tags such as `` and `<input />` directly introduce content into the page. Other tags such as `<p>` surround and provide information about document text and may include other tags as sub-elements. Browsers do not display the HTML tags, but use them to interpret the content of the page.

HTML can embed programs written in a scripting language

2. CSS: Stands for "Cascading Style Sheet." Cascading style sheets are used to format the layout of Web pages. They can be used to define text styles, table sizes, and other aspects of Web pages that previously could only be defined in a page's HTML.

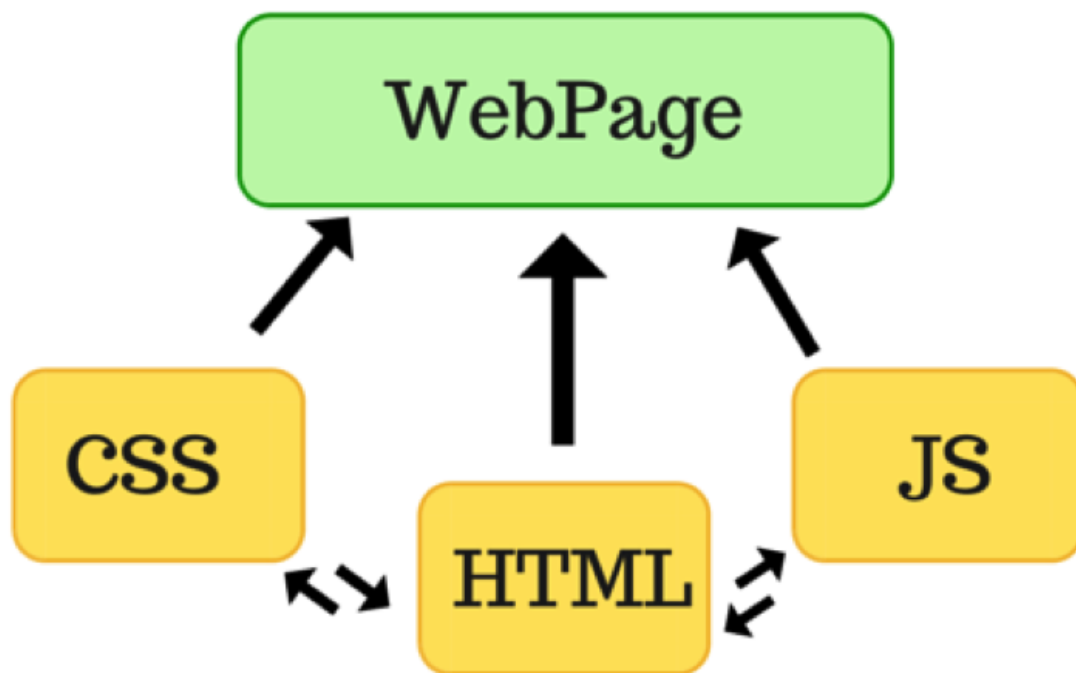
There are three types of CSS:

External style sheets are separate files full of CSS instructions (with the file extension .css). When any web page includes an external stylesheet, its look and feel will be controlled by this CSS file (unless you decide to override a style using one of these next two types). This is how you change a whole website at once. And that's perfect if you want to keep up with the latest fashion in web pages without rewriting every page!

Internal styles are placed at the top of each web page document, before any of the content is listed. This is the next best thing to external, because they're easy to find, yet allow you to 'override' an external style sheet -- for that special page that wants to be a nonconformist!

Inline styles are placed right where you need them, next to the text or graphic you wish to decorate. You can insert inline styles anywhere in the middle of your HTML code, giving you real freedom to specify each web page element. On the other hand, this can make maintaining web pages a real chore!

3.Bootstrap: Bootstrap is a free and open source CSS framework directed at responsive, mobile first front end development. It contains CSS- and (optionally) JavaScript-based design templates for typography, forms, buttons, navigations, and other interface components. Bootstrap is the seventh-most-starred project on GitHub, with more than 142,000 stars, behind freeCodeCamp (almost 312,000 stars) and marginally behind Vue.js framework. According to Alexa rank, Bootstrap is in the top-2000 in the USA while vuejs.org is in the top-7000 in the USA. Bootstrap is a web framework that focuses on simplifying the development of informative web pages (as opposed to web apps). The primary purpose of adding it to a web project is to apply Bootstrap's choices of color, size, font and layout to that project. As such, the primary factor is whether the developers in charge find those choices to their liking. Once added to a project, Bootstrap provides basic style definitions for all HTML elements. The result is a uniform appearance for prose, tables and form elements across web browsers. In addition, developers can take advantage of CSS classes defined in Bootstrap to further customize the appearance of their contents. For example, Bootstrap has provisioned for light- and dark-colored tables, page headings, more prominent pull quotes, and text with a highlight.



4. JavaScript: It is a scripting language used to create and control dynamic website content that is anything that moves, refreshes or otherwise changes on your screen without requiring you to manually reload a webpage features like

- Animated graphics
- Photo slideshows

- Autocomplete text suggestions
- Interactive forms

An even better way of understanding what javascript does is to think about certain web features you use every day and likely take for granted- like when your facebook timeline automatically updates on your screen or Google suggest terms based on a few letters you have started typing. Javascript is an integral part of Web functionality, all major Web Browsers come with built-in engines that can render javascript.

5.PHP: PHP code is usually processed on a web server by a PHP interpreter implemented as a module, a daemon or as a Common Gateway Interface (CGI) executable. On a web server, the result of the interpreted and executed PHP code – which may be any type of data, such as generated HTML or binary image data – would form the whole or part of a HTTP response. Various web template response, web content management systems, and web framework exists which can be employed to orchestrate or facilitate the generation of that response. Additionally, PHP can be used for many programming tasks outside of the web context, such as standalone graphical applications and robotic drone control.

6.MySQL: MySQL is an open source relational database management system (RDBMS). Its name is a combination of "My", the name of co-founder Michael Widenius's daughter, and "SQL", the abbreviation for Structured Query Language. A relational database organizes data into one or more data tables in which data types may be related to each other; these relations help structure the data. SQL is a language use to create, modify and extract data from the relational database, as well as control user access to the database. In addition to relational databases and SQL, an RDBMS like MySQL works with an operating system to implement a relational database in a computer's storage system, manages users, allows for network access and facilitates testing database integrity and creation of backups. MySQL Database Service is a fully managed database service that enables organizations to deploy cloud-native applications using the world's most popular open source database. It is 100% developed, managed and supported by the MySQL Team

1.3 Hardware and Software Requirements

Hardware

- Memory [4GB RAM (or higher)]
- Intel core i3 64-bit Processor (or higher)

Software

- Window 7 or 8 or 10
- Visual Studio code
- Apache Server or WampServer
- GitHub
- Google chrome or Opera Browser

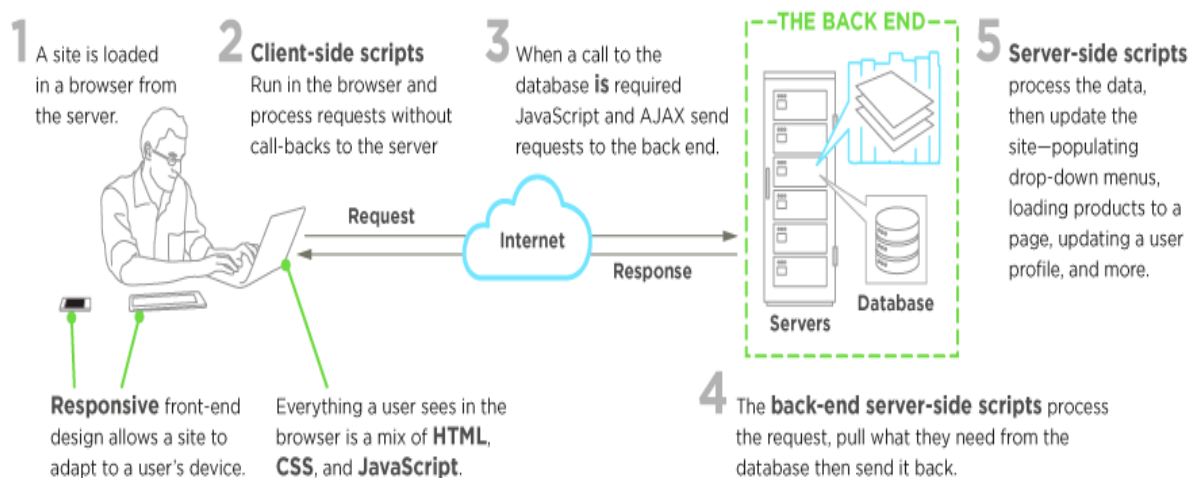
Objective

The objective is to build a simple expense manager web application that can be used by all for tracking their expenses accordingly. The user can add the initial budget for the expenses and give it a title accordingly. Further user can add bills under the given budget and track her expenses accordingly.

Implementation Details

Web development is the work involved in developing a web site 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 business, 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 or 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 Web sites: writing markup and coding. Web development may use content management systems (CMS) to make content changes easier and available with basic technical skills.

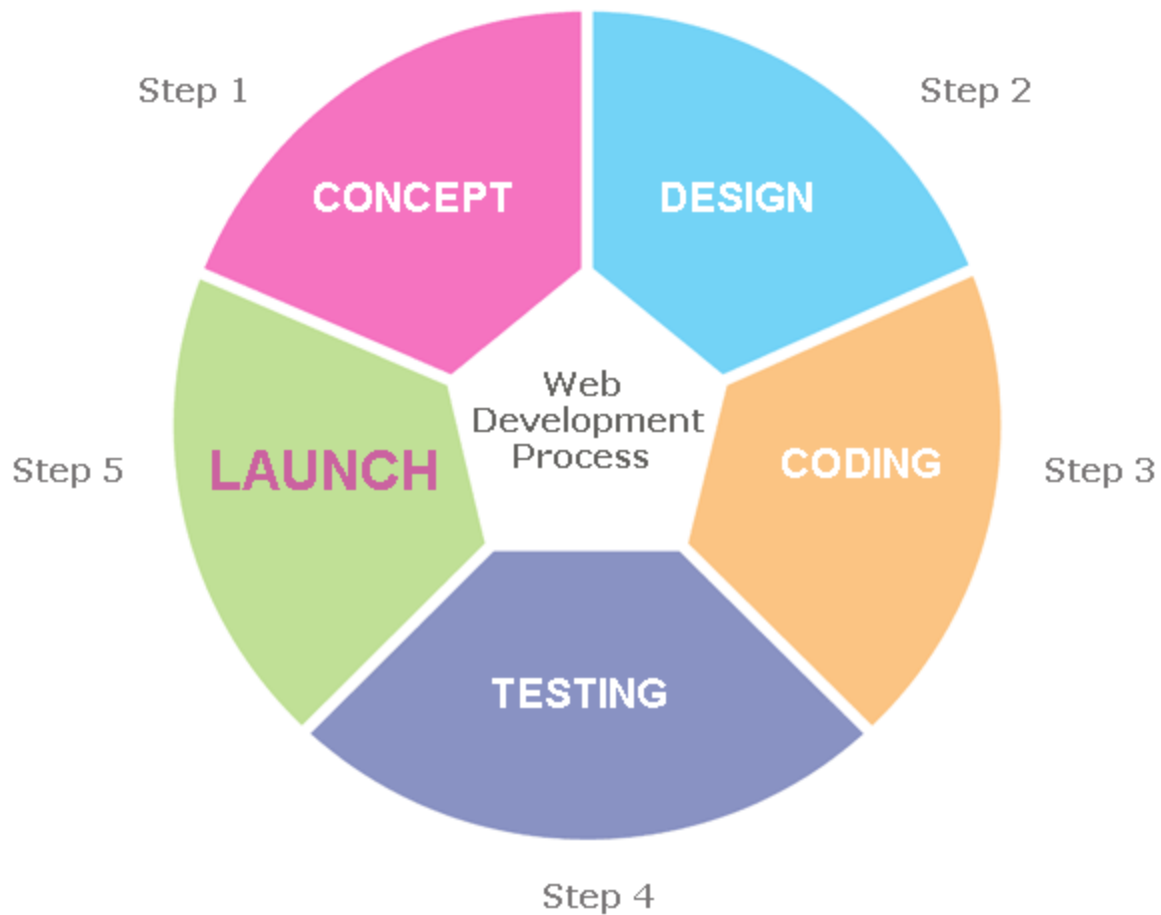


For larger organizations and businesses, Web development teams can consist of hundreds of people (Web developers) and follow standard methods like Agile methodologies while developing Web sites. Smaller organizations may only require a single permanent or contracting developer, or secondary assignment 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 behaviour and visuals that run in the user browser, while back-end developers deal with the servers



A **website** (also written as **web site**) is a collection of web pages and related content that is identified by a common domain name and published on at least one web server. Notable examples are google.com, yahoo.com etc. All publicly accessible websites collectively constitute the World Wide Web. There are also private websites that can only be accessed on a private network, such as a company's internal website for its employees.

Websites are typically dedicated to a particular topic or purpose, such as news, education, commerce, entertainment, or social networking. Hyperlinking between web pages guides the navigation of the site, which often starts with a home page. Users can access websites on a range of devices, including desktops, laptops, tablets and smart phones. The software application used on these devices is called a web browser. Websites can be used in various fashions: a personal website, a corporate website for a company, a government website, an organization website, etc



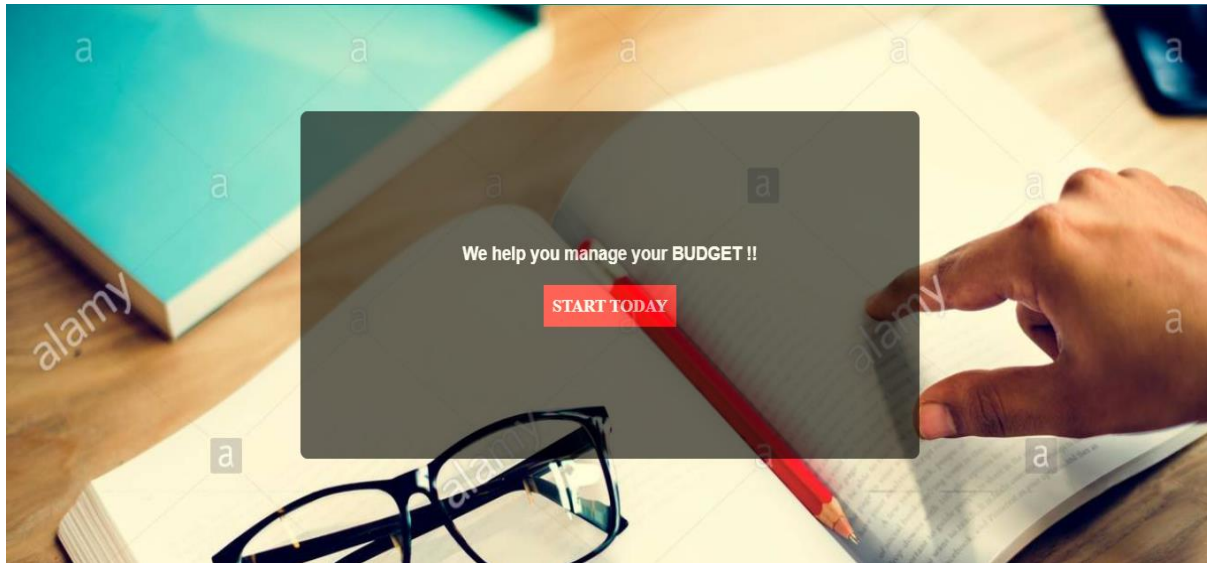
So far, we have completed our index page, signup page, login page, change password page, about us page. The technology we used in this project till now are HTML, CSS and Bootstrap, The platform used is Visual studio code(VS code).

1.Index page: The page divided into three sections header, container and footer. The header basically is navigation bar which has submenu about us, signup and login. We have used the concept of unordered list here.



Header section

The container section comprised of black transparent box in which there is a button “start today”. We have use a image as a background in container section.



Container section.

In footer section , we simply use a `<div>` tag with 100% width that tells us about copyright information.



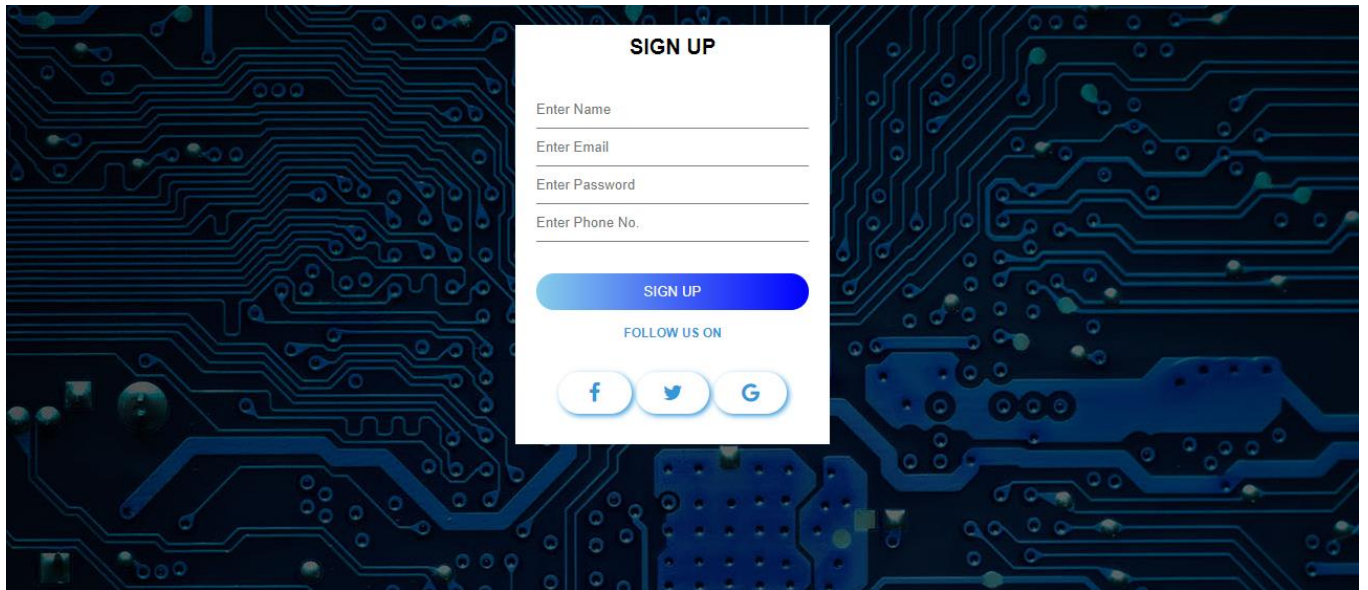
Footer section

2. Signup page: this page is also divided into three sections, header, container and footer. Header and footer sections are the same as above but the footer section has a different color this time.



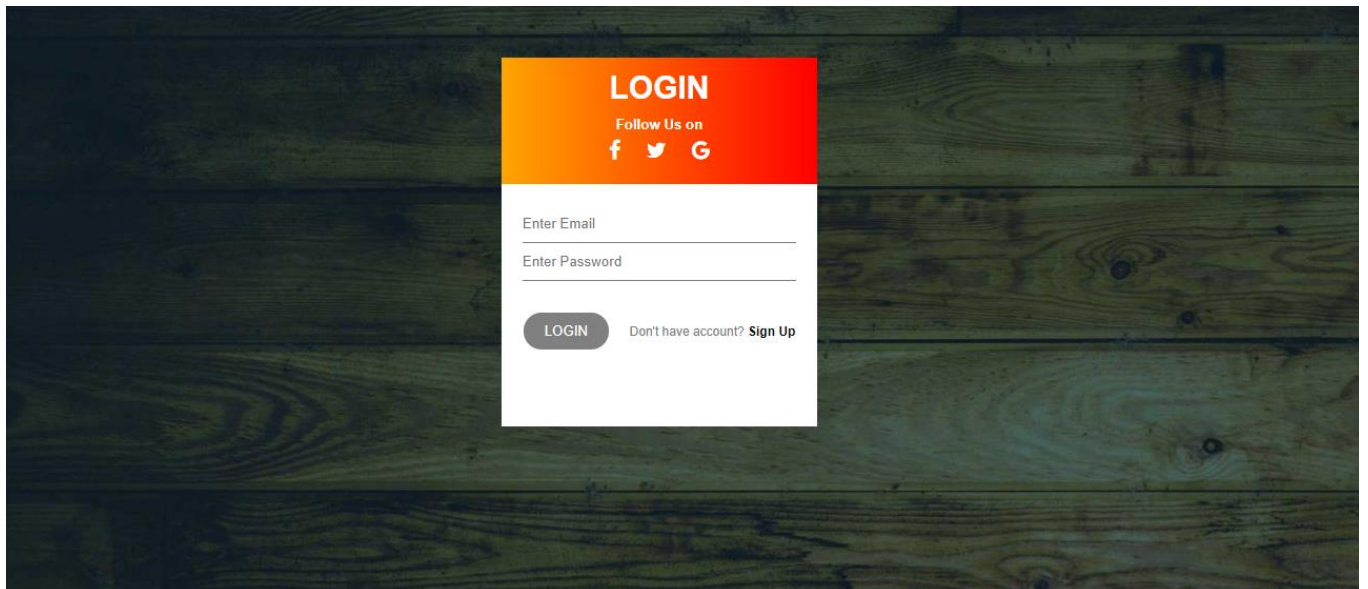
Footer section

The container section includes an image as a background and includes a signup form. This form includes name, email, phone number, and password as input fields. At the bottom of the form, we have provided social links like Facebook, Twitter, and Google.



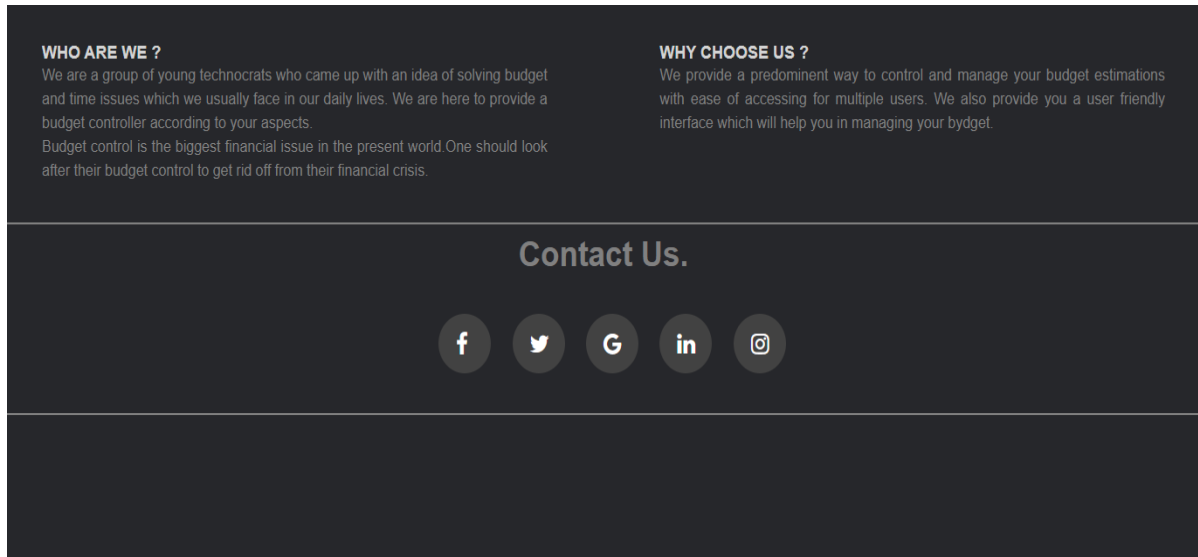
Container section of signup page

3. Login page: this page is also divided into three section header , footer and container .Header and footer are same as in signup page. The container section is different, it includes login form in centre and also include a image as a background.



Container section of Login page

4. About us page: This page is again divided into three sections, header, footer and container. The header and footer section are same as in signup page and login page. The container page includes information about “ who are we ? “, and “why choose us ?” and include social links through which user can contact us.

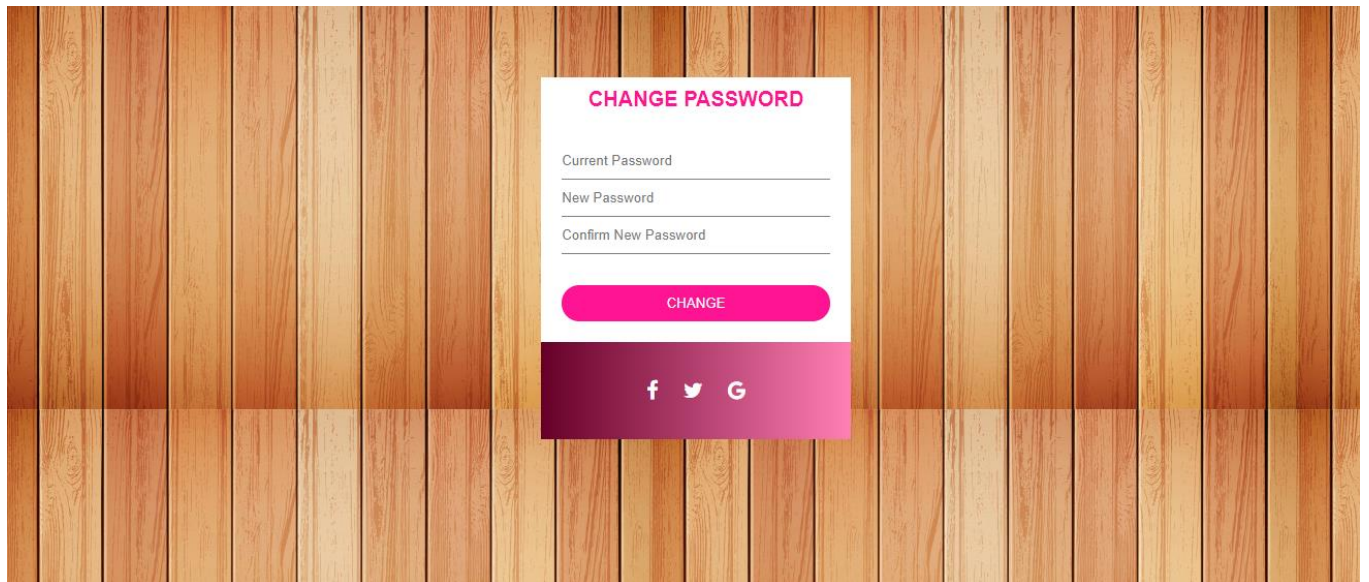


Container section of about us page

5. Change password page: the user can visit this page when user want to change password of his/her account. This page is also divided into three sections, header, footer and container in which footer is same as in login and signup page and the container section include change password form in centre and also include image as a background. The header section is slightly change here , here there is no option of signup because the user only able to change his password when he logged in and has account. the form includes input field like current password, new password and confirm password.



Header section of change password page



Container section of change password page

Database: we have also started **initial** work on database. We have created a table of User data in which name, email, phone number. and password are included and the phone number is taken as primary key of the table .

WampServer is used in this project for creating local server in this project. Later we will more work on our database and also use PHP for interacting between database and website.

localhost / MariaDB / expense m: x

localhost/phpmyadmin/tbl_structure.php?db=expense+manager&table=users&server=2

Server: MariaDB:3307 » Database: expense manager » Table: users

Current server: MariaDB

Recent Favorites

- New
- expense manager
 - New
 - users
 - Columns
- information_schema
- mysql
- performance_schema
- test

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	name	varchar(15)	latin1_swedish_ci		No	None			Change Drop More
2	email_id	varchar(25)	latin1_swedish_ci		No	None			Change Drop More
3	phone	bigint(10)			No	None			Change Drop More
4	password	bigint(8)			No	None			Change Drop More

Check all With selected: Browse Change Drop Primary Unique Index Fulltext Fulltext

Print Propose table structure Move columns Normalize

Add 1 column(s) after password Go

Indexes

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Drop	PRIMARY	BTREE	Yes	No	phone	5	A	No	

Create an index on 1 column(s) Go

Partitions

No partitioning defined

Partition table

Console

localhost / MariaDB / expense m: x

localhost/phpmyadmin/sql.php?db=expense+manager&table=users&pos=0&server=2

Server: MariaDB:3307 » Database: expense manager » Table: users

Current server: MariaDB

Recent Favorites

- New
- expense manager
 - New
 - users
 - Columns
- information_schema
- mysql
- performance_schema
- test

Showing rows 0 - 4 (5 total, Query took 0.0005 seconds.)

SELECT * FROM `users`

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

	name	email_id	phone	password
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	aakash	aakash@gmail.com	8787878787	12345678
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	aakash	aakash@gmail.com	7878787878	87654321
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	Ram	ram@gmail.com	6767676767	12121212
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	Shyam	shyam@gmail.com	7676767676	34343434
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	Aarfa	aarfa@gmail.com	9999988888	34534545

Check all With selected: Edit Copy Delete Export

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Query results operations

Print Copy to clipboard Export Display chart Create view

Progress till date & the remaining work

Progress till date:

Till now, out of 10 pages, 5 pages have been completed i.e.

- Home Page
- Signup Page
- Login Page
- About us Page
- Change Password Page

The technology used till now are HTML, CSS, Bootstrap.

Remaining Work:

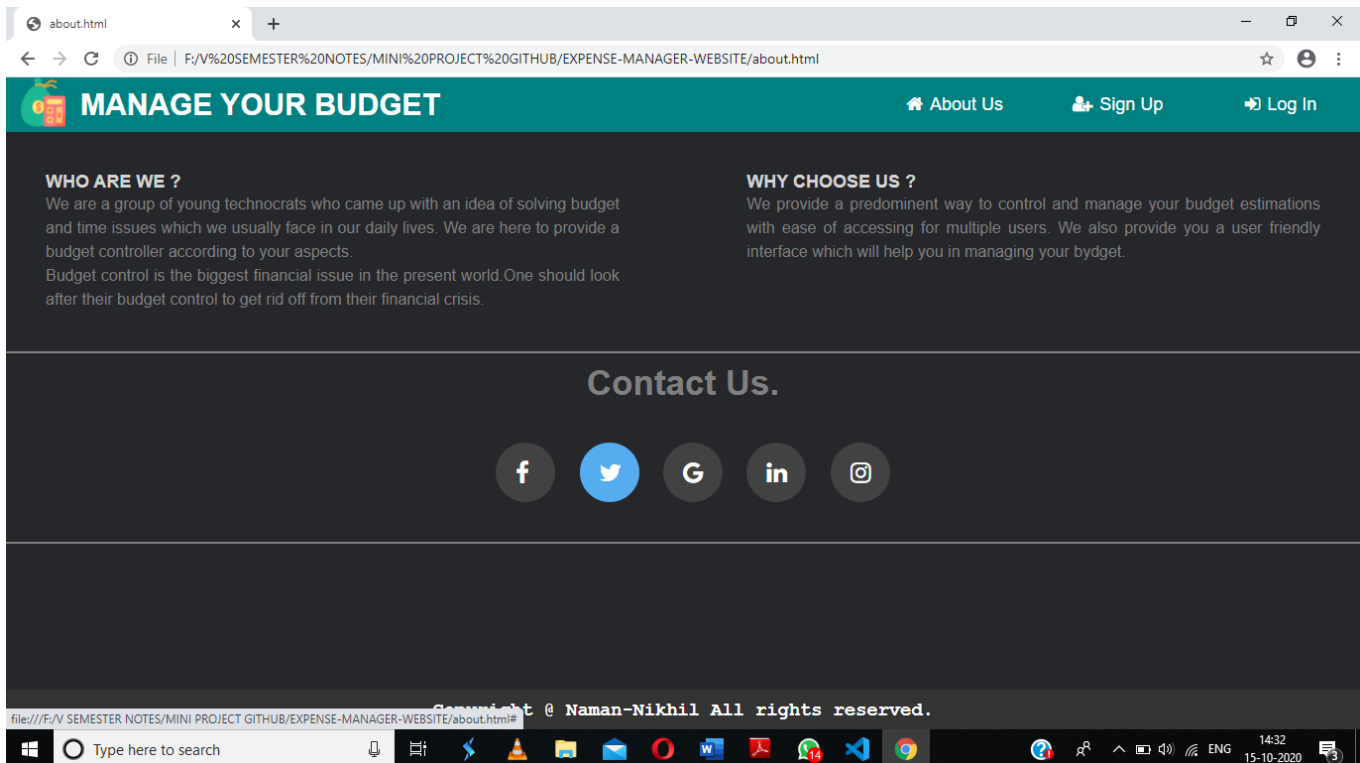
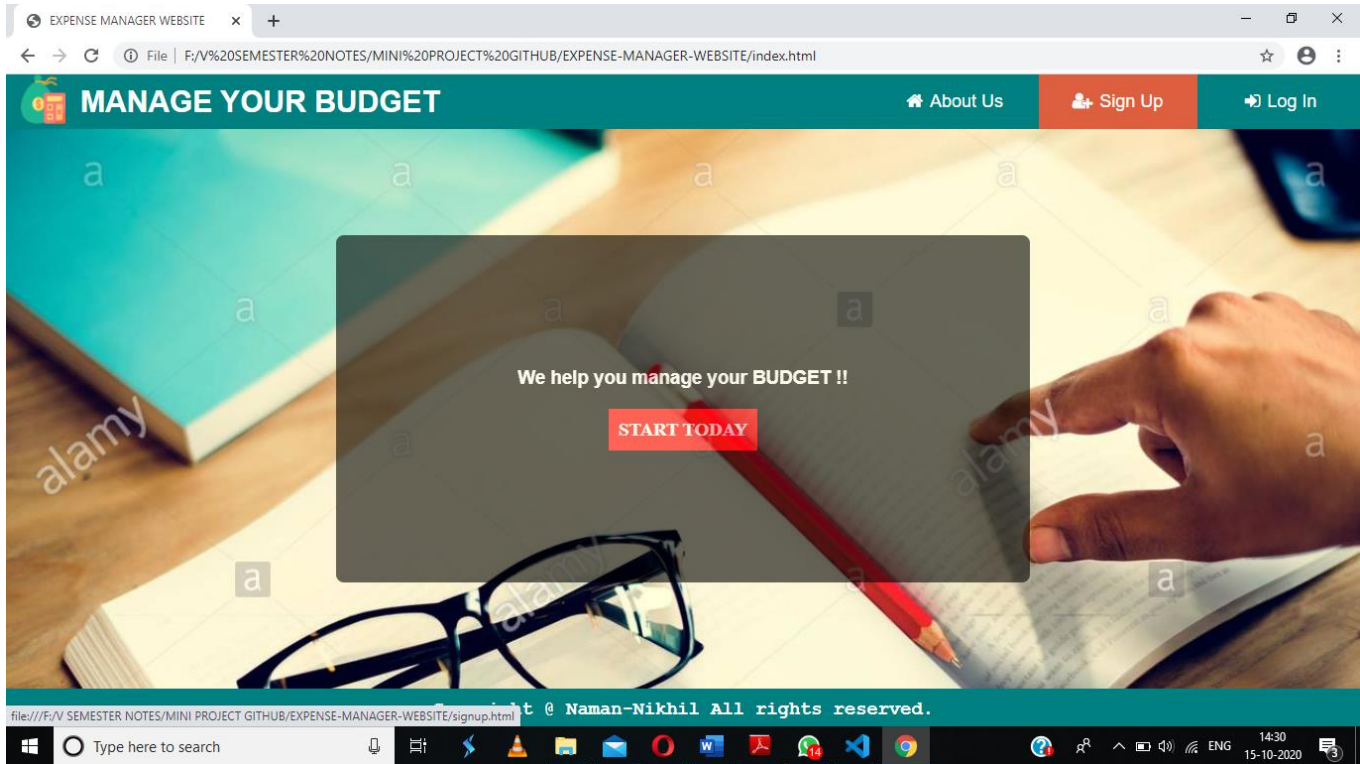
Database have to be created , and a local server will be created with the help of WampServer.

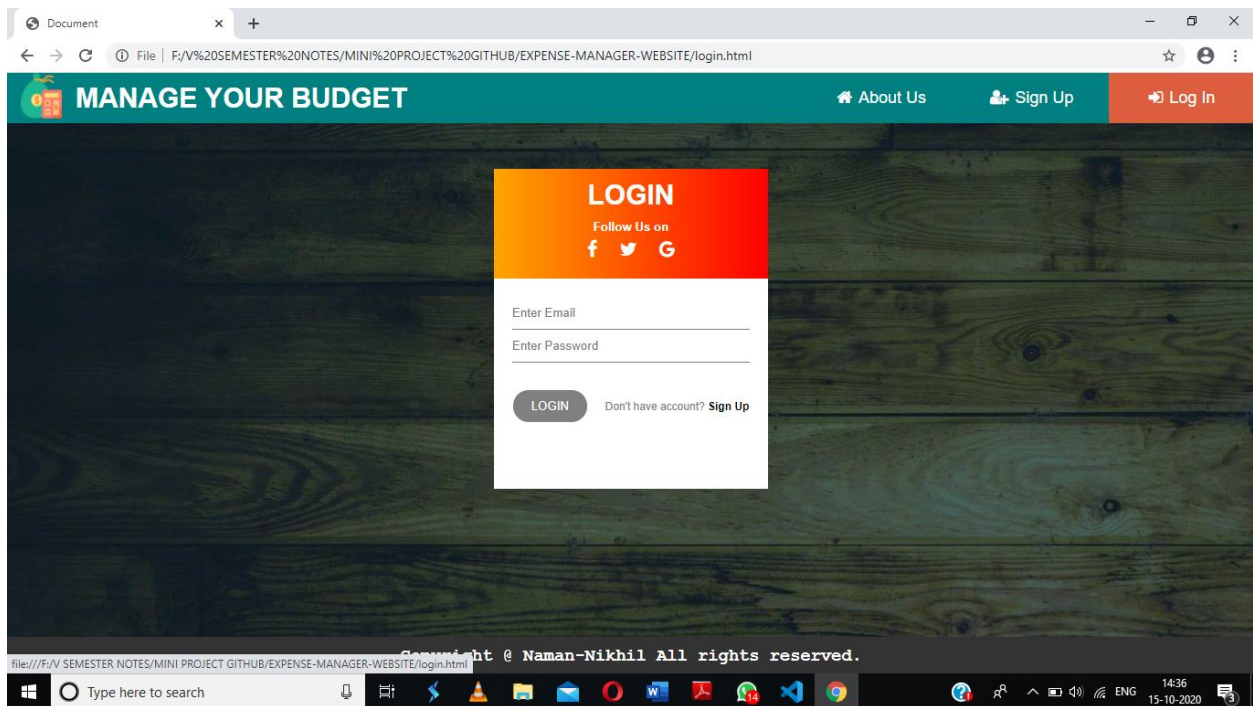
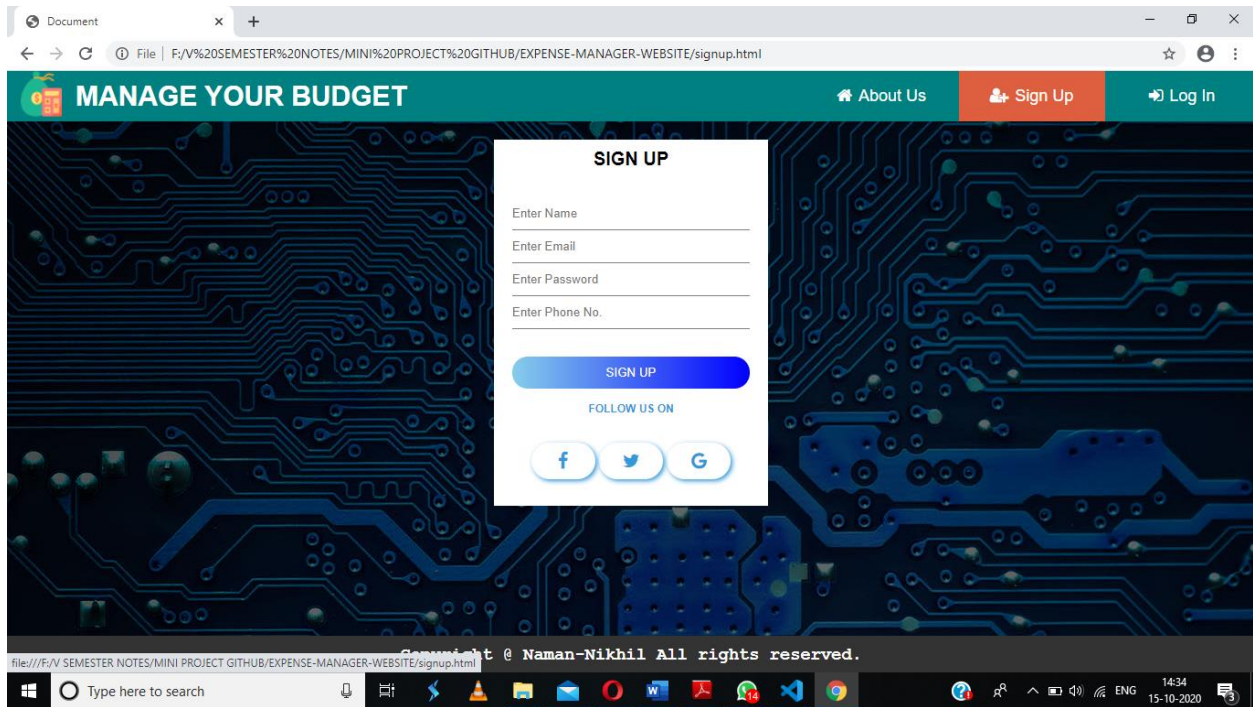
Some pages have to be created are given below:

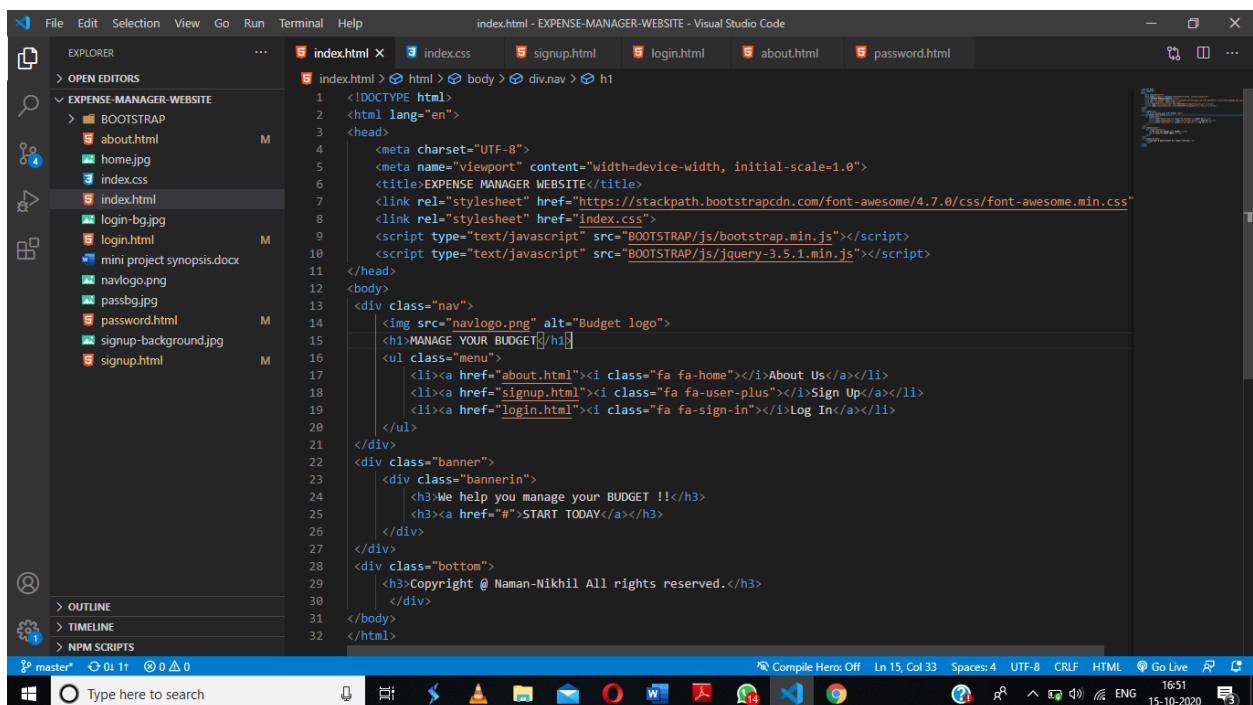
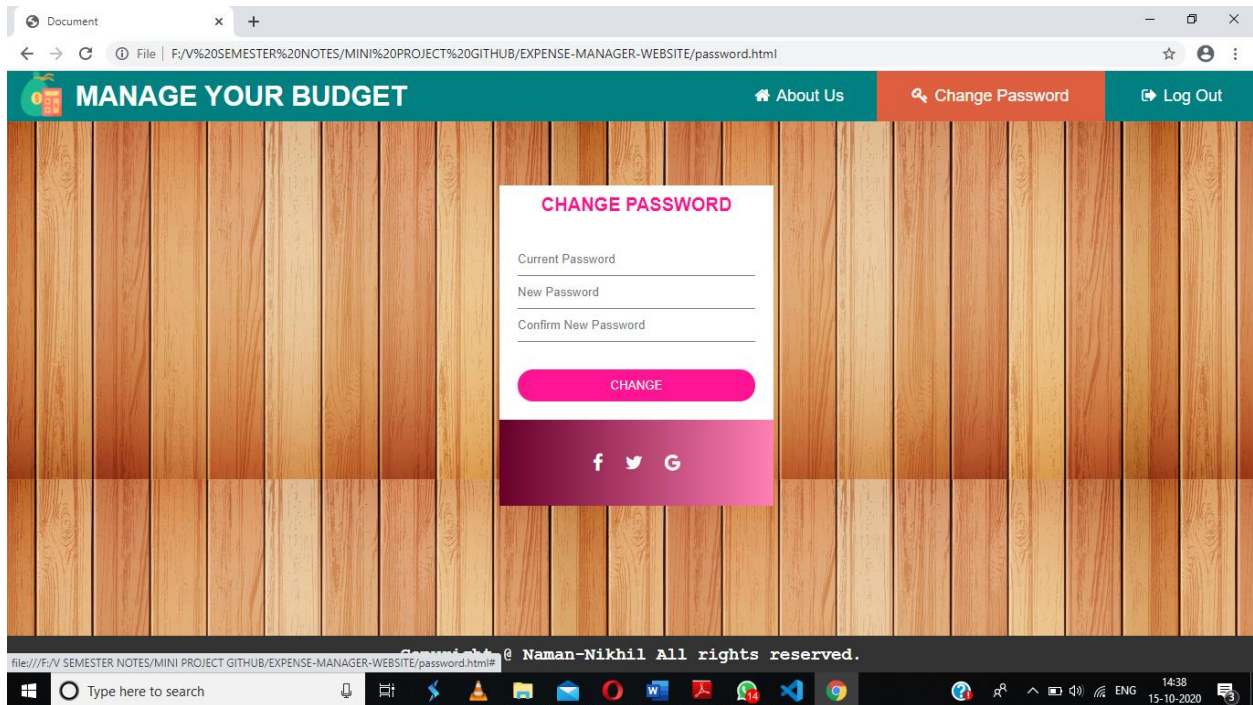
- Add New Plan Page
- View Plan Page
- Expense Distribution Page
- Add New Expense Page

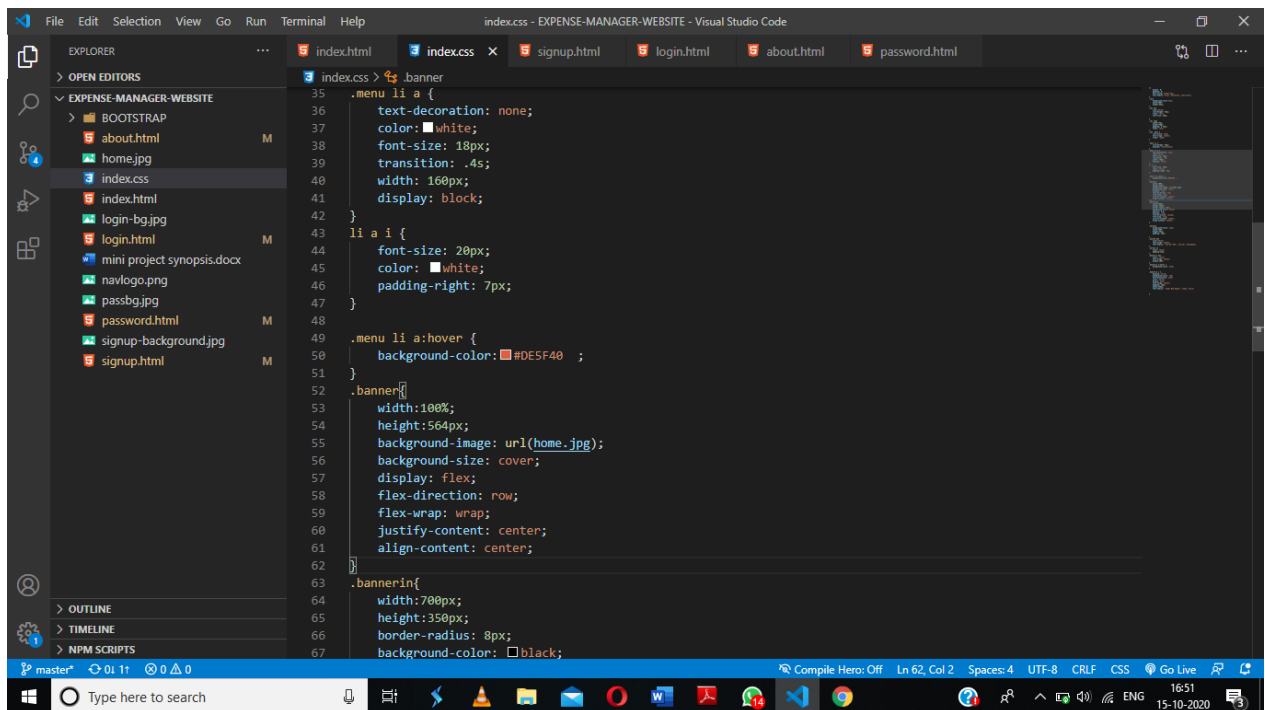
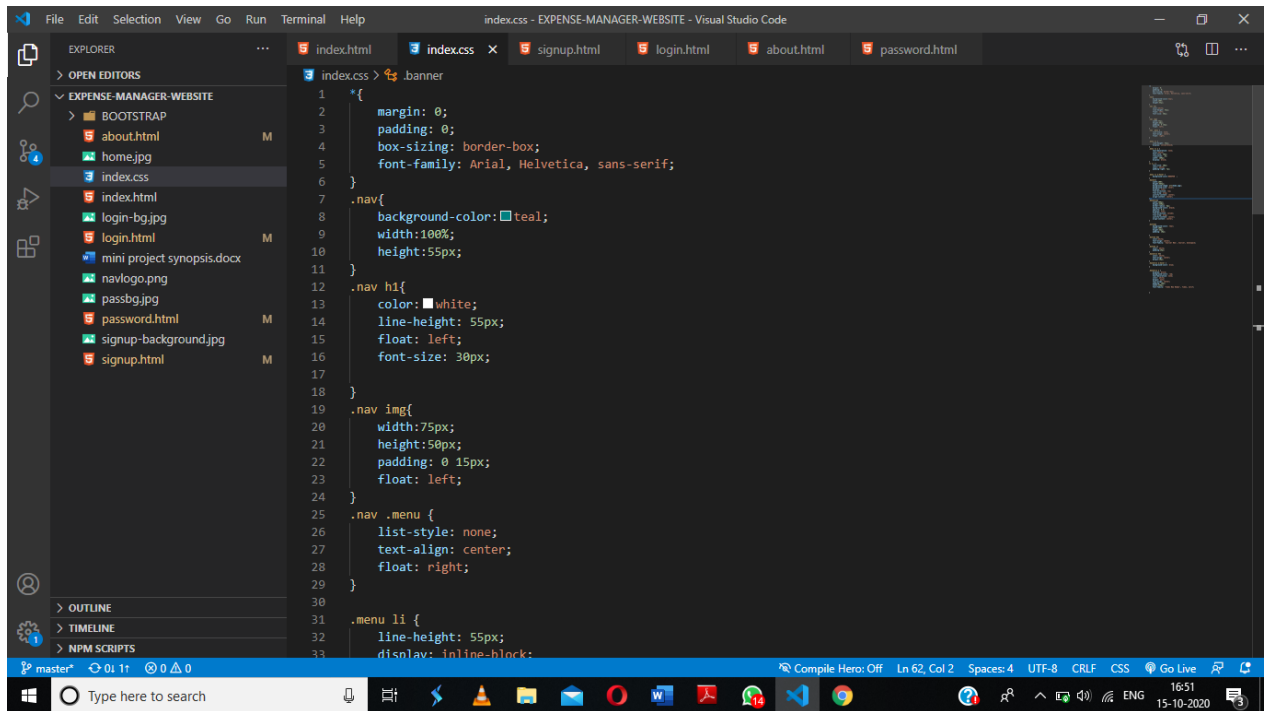
The technology will be used PHP, Javascript, MySQL, HTML, CSS, Bootstrap.

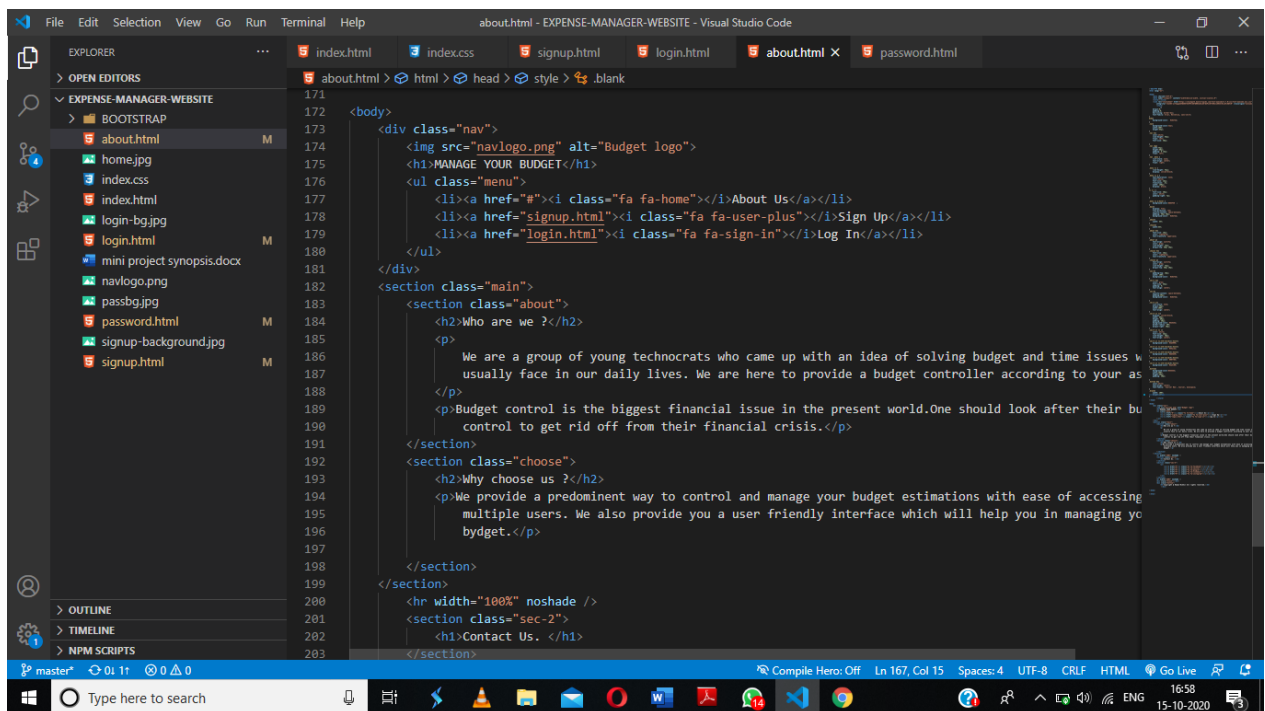
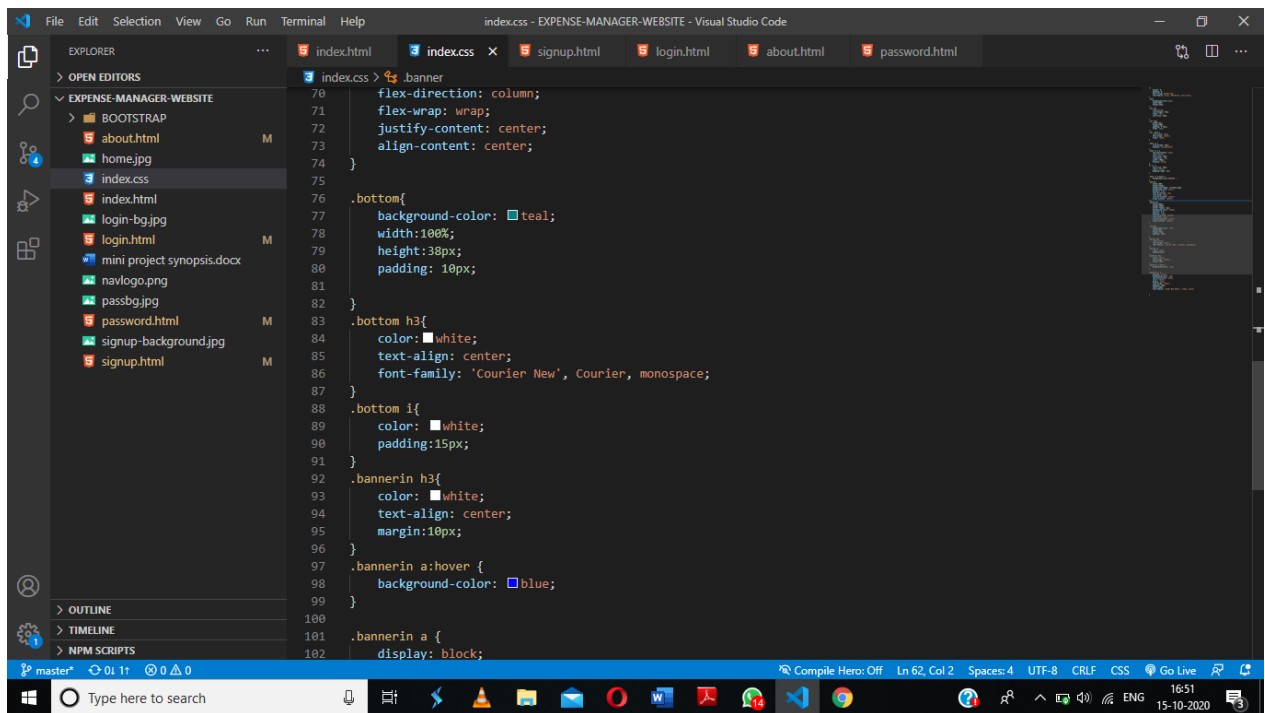
SOME SCREENSHOTS





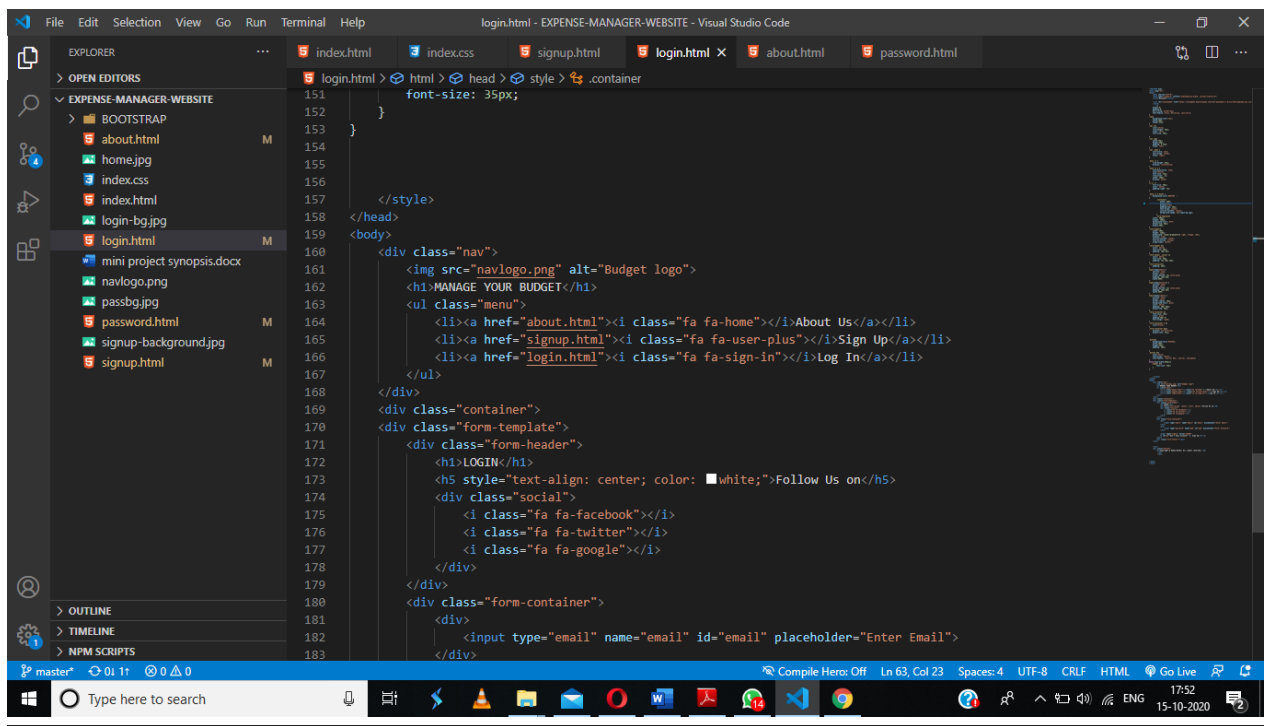
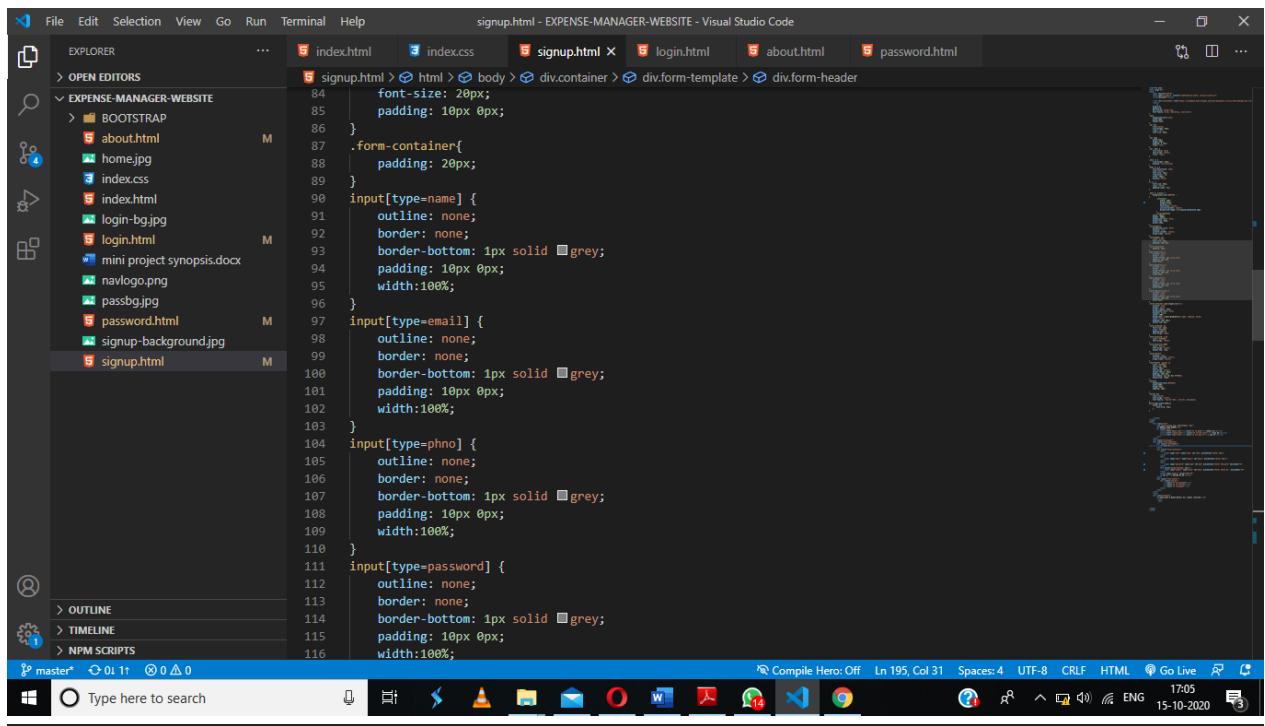


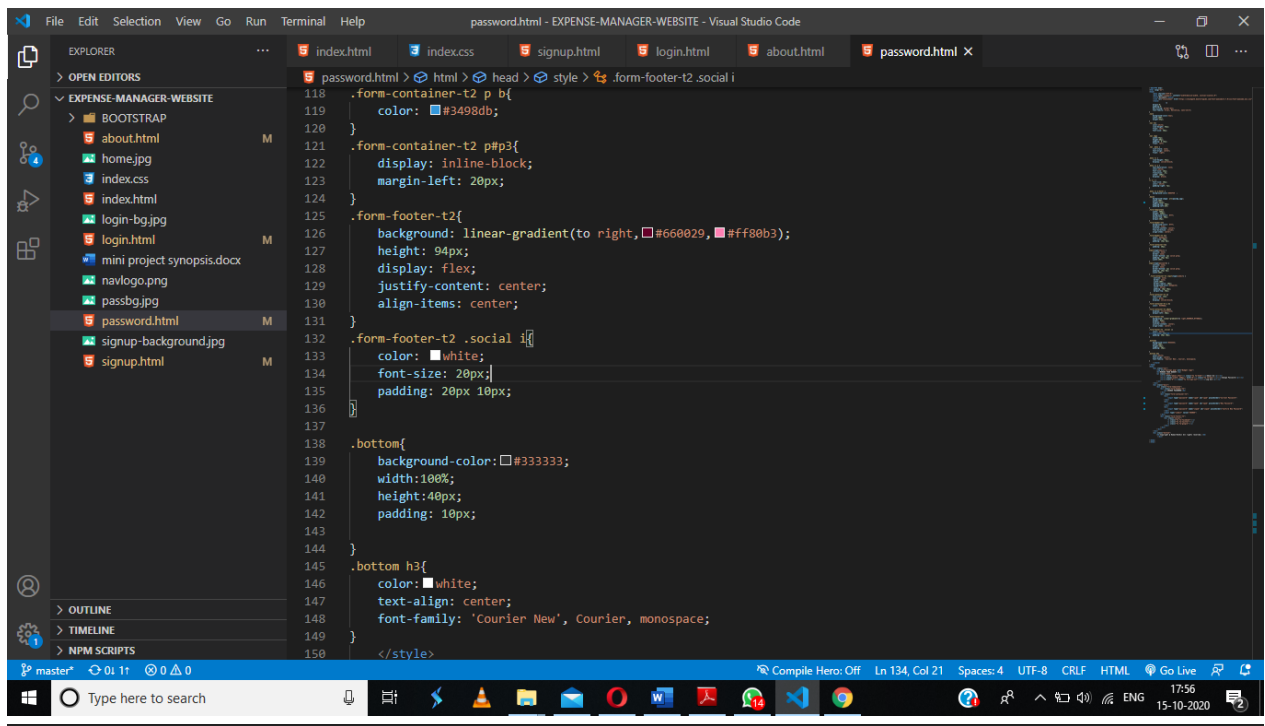




```
125 width: 60px;
126 height: 60px;
127 padding: 20px;
128 background-color: #424242;
129 border-radius: 50%;
130 margin-right: 20px;
131 }
132 .sec-3 ul li i{
133 color: white;
134 font-size: 24px;
135 line-height: 20px;
136 text-align: center;
137 }
138 .sec-3 ul li:nth-child(1):hover{
139 background-color: #3b5999;
140 }
141 .sec-3 ul li:nth-child(2):hover{
142 background-color: #55acee;
143 }
144 .sec-3 ul li:nth-child(3):hover{
145 background-color: #dd4b39;
146 }
147 .sec-3 ul li:nth-child(4):hover{
148 background-color: #007785;
149 }
150 .sec-3 ul li:nth-child(5):hover{
151 background-color: #ea4c89;
152 }
153 .bottom{
154 background-color: #333333;
155 width: 100%;
156 height: 40px;
157 padding: 10px;
```

```
181 </head>
182 <body>
183 <div class="nav">
184 
185 <h1>MANAGE YOUR BUDGET</h1>
186 <ul class="menu">
187 <li><a href="about.html"><i class="fa fa-home"></i>About Us</a></li>
188 <li><a href="signup.html"><i class="fa fa-user-plus"></i>Sign Up</a></li>
189 <li><a href="login.html"><i class="fa fa-sign-in"></i>Log In</a></li>
190 </ul>
191 </div>
192 <div class="container">
193 <div class="form-template">
194 <div class="form-header">
195 <h1>SIGN UP</h1>
196 </div>
197 <div class="form-container">
198 <div>
199 <input type="text" name="name" id="name" placeholder="Enter Name">
200 </div>
201 <div>
202 <input type="email" name="email" id="email" placeholder="Enter Email">
203 </div>
204 <div>
205 <input type="password" name="pwd" id="pwd" placeholder="Enter Password" maxlength="8">
206 </div>
207 <div style="margin-bottom: 30px;">
208 <input type="number" name="phno" id="phno" placeholder="Enter Phone No." maxlength="10">
209 </div>
210 <input type="submit" value="SIGN UP">
211 <p id="p4"><b>FOLLOW US ON</b></p>
212 </div>
213 <div class="form-footer">
```





References

- <https://www.w3schools.com/html/>
- <https://www.w3schools.com/css/>
- <https://www.w3schools.com/php/>
- <https://fontawesome.com>
- <https://getbootstrap.com>