SUMMER TRAINING REPORT

ON

“LET’S CODE NOW”

SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENT FOR THE AWARD

OF THE DEGREE OF

BACHELOR OF ENGINEERING

(Computer Science & Engineering)

JUNE-JULY,2021

SUBMITTED TO:

NAME: GURPREET KAUR

SUBMITTED BY:

NAME: **SHUBHI AGARWAL**

UNIVERSITY UID : **20BCS9406**

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

CHANDIGARH UNIVERSITY GHARUAN, MOHALI

INDEX

TOPIC	PG NO.
Certificate	3
Candidate's Declaration	4
Abstract	5
Acknowledgement	6
List of Figures	7
CHAPTER-1) INTRODUCTION	**8-12**
1.1 Background of the project	8-9
1.2 Software and hardware tools required	9-10
1.3 Use-Case Diagram	11-12
CHAPTER-2) TRAINING WORK UNDERTAKEN	**13-15**
2.1 Sequential Steps	13-14
2.2 Methodology	14-15
CHAPTER-3) RESULTS AND DISCUSSION	**16-38**
3.1 Code Snippets	16-34
3.2 ScreenShots of final web page	34-38
CHAPTER-4) CONCLUSION AND FUTURE SCOPE	**39**
4.1 Conclusion	39
4.2 Future Scope	39
REFERENCES	**40**

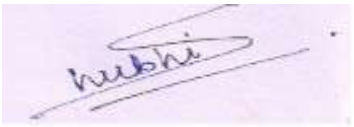
CERTIFICATE

This is to certify that the work embodied in this Project Report entitled "**LET'S CODE NOW**", being submitted by "**SHUBHI AGARWAL**" UID "**20BCS9406**" 3rd Semester for partial fulfillment of the requirement for the degree of " **Bachelor of Engineering in Computer Science & Engineering**" discipline in "**Chandigarh University**" during the summer training JUNE-JULY 2021 is a record of bona fide piece of work, carried out by student under the supervision and guidance in the" Department of Computer Science & Engineering ", Chandigarh University.

CHANDIGARH UNIVERSITY GHARUAN, MOHALI

DECLARATION

I "SHUBHI AGARWAL" hereby declares that I have undertaken Summer Training and developed project titled LET'S CODE NOW during a period from JUNE to JULY 2021 in partial fulfillment of requirements for the award of degree of B.E (COMPUTER SCIENCE & ENGINEERING) at CHANDIGARH UNIVERSITY GHARUAN, MOHALI. The work which is being presented in the training report submitted to Department of Computer Science & Engineering at CHANDIGARH UNIVERSITY GHARUAN, MOHALI is an authentic record of training work.



SHUBHI AGARWAL(B.E. 3rd SEMESTER)

Signature of the Student

APPROVED & GUIDED BY:

To our Project In charge "ER GURPREET KAUR" and "ER JYOTI ARORA".

Signature of Internal Examiner Signature of External Examiner

ABSTRACT

My aim is to design a website a tutorial coding learning website where with the help of various learning tools like PPTs, quizzes as well as assignment. Register page will help the user to login and in future would be able to sign in with his/her info and would also be able to see from where they have left . This all will be done with the help of database management system in which SQL will take it part .

Also the user can connect with me via social media platforms and can also provide the feedback along with ratings to my website to help improve in future . Also a chatbots has been implemented in the FAQ section so as to make the website more interactive . This has been achieved with the help of JavaScript. The website has also been made responsive with the help of media queries in HTML and CSS and also Bootstrap framework has been used .

ACKNOWLEDGEMENT

I would like to express our deep and sincere gratitude to our Project In charge ER GURPREET KAUR and ER JYOTI ARORA for giving us the opportunity to do the project and providing valuable guidance throughout this research. Their dynamism, vision and exquisite efforts has deeply inspired me. They taught us the methodology to carry out the research and to present the research work as clearly as possible. It was a great privilege for us to study and work under their guidance.

I owe the completion of my project to our project Mentor for her continuous support and guidance.

LIST OF FIGURES

S.NO.	FIGURE NAME	PG NO.
1.	USE CASE DIAGRAM	12
2.	HOME PAGE	34
3.	REGISTRATION PAGE	35
4.	FEEDBACK PAGE	35
5.	ABOUT PAGE	36
6.	FAQs PAGE	36
7.	HTML PAGE(1)	37
8.	HTML PAGE(2)	37
9.	QUIZ PAGE	38

CHAPTER-1

INTRODUCTION

1.1) Background for the project

This project is made for providing the users to learn as well as to perform practice sessions on various computer specific programming languages and these include HTML, CSS, Python and many more which will be updated soon. I have prepared this project with the help of HTML as the markup language, CSS for styling, JavaScript for the programming part and PHP as the server scripting language.

I have chosen this theme for helping pure beginners to start their career in the field of web development and would be taking it forward in different domains as well. This tutorial website starts from scratch and will be moving to the higher level.

Benefits of this project :

- It is easy to use .
- Helps in learning languages like HTML , SQL , Python and many more .
- Saves time as study material is already provided .
- Helps in practicing with the help of quizzes .
- With the help of chatbots site becomes more interactive to users .
- The portal is open 24/7 as any time people can register and learn .
- Suggestions of the user can be taken through feedback form .
- This website is responsive which helps in making the website device independent .

In this era of technology and science there is a growing need to develop tech-friendly environment and for that coding plays a major role and making websites or apps is not possible without these coding languages. This site functions in such interactive way to help learners for free as well as good quality content through PPT's, quizzes etc.

1.2) Software and Hardware tools required for this Project [1].

Software:

- HTML

HTML stands for Hyper Text Markup Language , it is a complete code package which allows the user to create web pages . It includes text and graphics . This describes the structure of the web page . It contains series of elements . It can be assisted by technologies like CSS(Cascading Style Sheets) and various scripting languages one of them being JavaScript .

- CSS

CSS stands for Cascading Style Sheets . CSS describes how HTML elements are to be displayed on the screen , paper , or in other media . CSS saves a lot of work . It can control the layout of multiple web pages all at once . External stylesheets can also be stored in CSS files .

- JAVASCRIPT

JavaScript (js) is a light-weight object-oriented programming language which is used by several websites for scripting the webpages. It is an interpreted, full-fledged programming language that enables dynamic interactivity on websites when applied to an HTML document .

JavaScript is the universal programming language of the web. In fact, JavaScript is used by 95.2% of all websites .

- PHP

PHP is a widely used server-side programming language that's become increasingly fast and powerful over the years. PHP works well with HTML and databases, making it a great language for anyone interested in building dynamic web applications.

- MYSQL

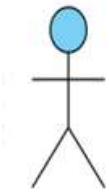
SQL is a standard language for accessing and manipulating databases . SQL stands for Structured Query Language. SQL lets you access and manipulate databases. SQL became a standard of the American National Standards Institute (ANSI) in 1986, and of the International Organization for Standardization (ISO) in 1987 .

SQL can execute queries against a database, retrieve data, insert records in a database, update records ,delete records, create new databases, create new tables in a database, create stored procedures in a database, create views in a database, set permissions on tables, procedures, and views .

Hardware:

- ✓ Processor (CPU) with 2 gigahertz (GHz) frequency or above .
- ✓ A minimum of 2 GB of RAM
- ✓ Monitor Resolution 1024 X 768 or higher
- ✓ A minimum of 20 GB of available space on the hard disk .Internet Connection Broadband (high-speed) Internet connection with a speed of 4 Mbps.
- ✓ Keyboard and a Microsoft Mouse or some other compatible pointing device.

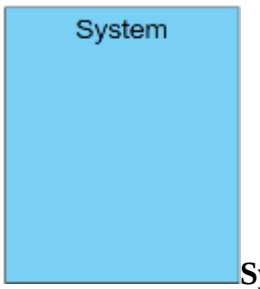
1.3) USE-CASE DIAGRAM [2]

-  **Actor:** It is a person or thing , which are outside the system and are involved in a task , e.g., in a banking system , account holders and are not part of the system .

-

Use-Case: It represents a task of the system with which actors interact . In other words , it is the way to depict one functionality of the system . It is represented through an oval with the name of use-case in it .

- **Communication:** It is the linking line(plain line) joining an actor and its task , i.e., a use-case .

- 

System: It depicts the system in totality , i.e., what all use-cases together make a system . Remember actors are not part of the system . They are outside the system and use the system .

  The boundary is shown with a rectangle .

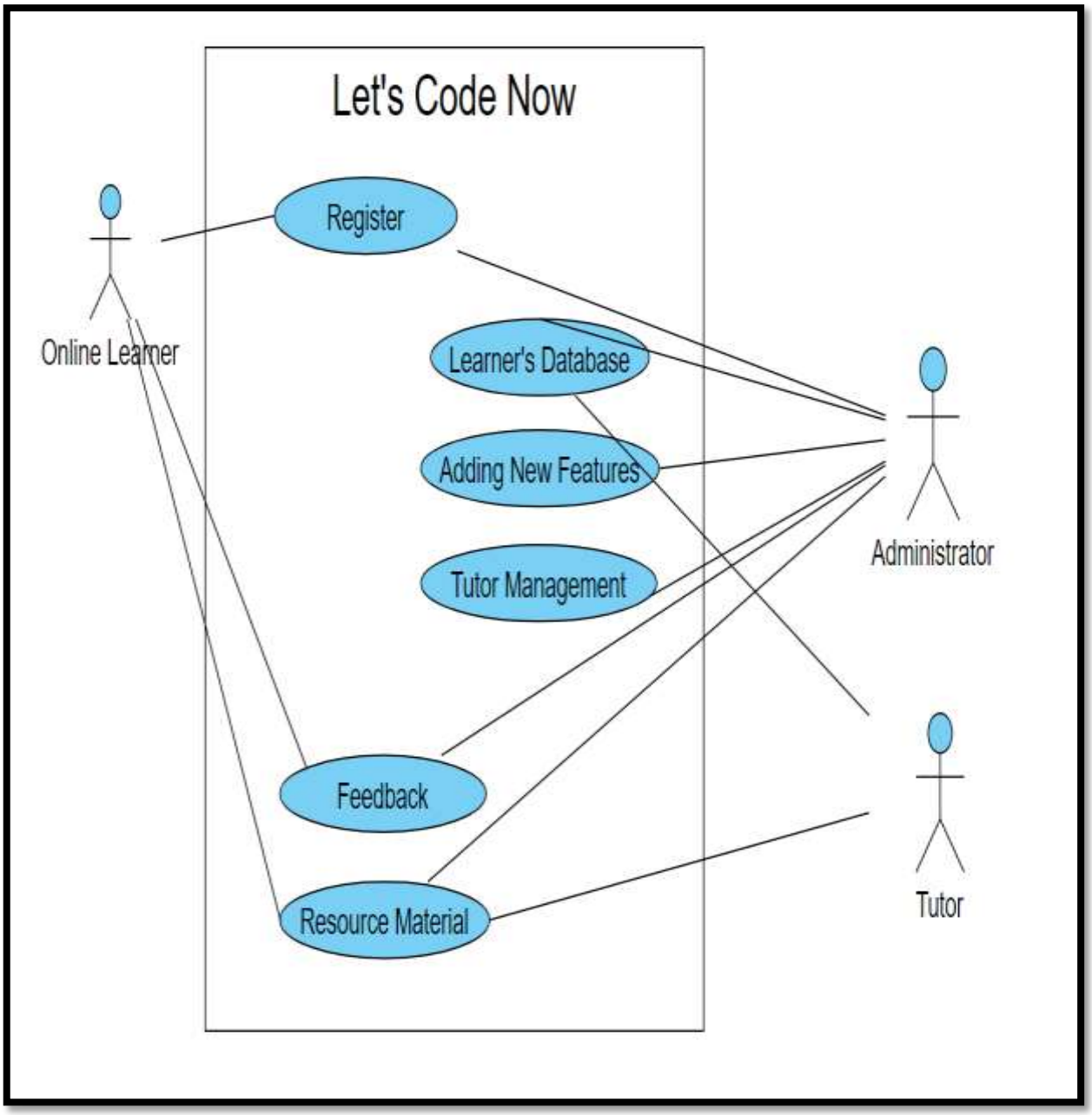


FIG 1.1 – USE CASE DIAGRAM

CHAPTER-2

TRAINING WORK UNDERTAKEN

2.1) SEQUENTIAL STEPS

To start with the project and to go on with it I needed the knowledge of HTML and CSS which included learning about [3] :

- Document Object Model in HTML
- Tags in html like head , meta , title, body , paragraph , etc.
- Images and objects , linking of web pages , link tags.
- Tables , table formatting , types of list
- Forms , header elements , nav , section tags
- Box model and its properties , font and text properties.
- Animations , key frames
- Media queries and responsive design in html
- Internal , inline and internal css using style and link tags .
- Background properties .

In JavaScript the prerequisites are[5] :

- Introduction to java script , defining variables
- If-else statements, operators
- Objects and arrays definition
- Declaring and defining functions

In MySQL the requirements for this project is the knowledge of the following things[4] :

- Introduction to DML and DDL commands

- Creating tables and applying insert , update queries
- Implementing different types of functions like number , aggregate as well as using logical operators
- Using group by , having and order by clause
- Adding constraints like primary , foreign , NOT NULL , unique keys
- Connecting the database with php through xampp server

2.2) METHODOLOGY

To start with the project I started with designing the Home page of the website in which I used a flickity tool[6] for carousel , header and the footer tag to give a good alignment to the webpage and favicon for implementing icon to the website.

In the header tag I used bootstrap framework for the nav bar and linked all the webpages together , the icons in the navbar are taken from font awesome site .

Then I started designing the HTML learning page in which I divided the main tag into two section tags in which for first one I embedded PPT's using iframe tags for the purpose of learning . For the second section I created quizzes using java script arrays for the questions and also for the timer for the quiz is designed using it . Then using image as a link , I attached quiz html file with it .

Then for the about page I attached my profile picture with my social media accounts and wrote about me using paragraph tags .

The signup page takes the info of the users like name ,email , gender , preferred language to learn etc. so as to keep the track the popular learning language amongst the users . This form is connect to the server using php .

FAQ page has also been created in which a chatbot is designed for increasing the interactivity with the user . With the help of java script the bot checks the user message and there are some pre-defined with the bot returns as its result . Also text to speech is included in the chatbot which repeats the thing which it flashes on the link .

The feedback form made has been attached to signup page and it takes comments as it is made using input tag and also 5 star rating can also be given as each star has been given a value and all this data can be stored in the database .

The footer page is designed with the footer tag in HTML . It contains various other pages like FAQs , Contact etc.

The website is made responsive by including media queries in the style sheets and as the screen size is reduced upto certain width the navbar , the content and the footer aligns automatically .

CHAPTER-3

RESULTS AND DISCUSSION

3.1) CODE SNIPPETS

For Home page (HTML page)[7] :

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Home Start Coding</title>
    <link rel="apple-touch-icon" sizes="180x180" href="Favicon folder/apple-
touch-icon.png">
    <link rel="icon" type="image/png" sizes="32x32" href="Favicon folder/favico
n-32x32.png">
    <link rel="icon" type="image/png" sizes="16x16" href="Favicon folder/favico
n-16x16.png">
    <link rel="manifest" href="Favicon folder/site.webmanifest">
    <link rel="stylesheet" href="Home_style.css">
    <link rel="stylesheet" href="https://unpkg.com/flickity@2/dist/flickity.min
.css">
    <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.
0/css/bootstrap.min.css" integrity="sha384-
Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm" crossorigin="
anonymous">
        <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.2.1/jquery.
min.js"></script>
  <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.12.6/umd/popp
er.min.js"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/js/bootstrap.min
.js"></script>
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.css">
    <style>
        .navbar { background-color: #484848; }
.navbar .navbar-nav .nav-link { color: #fff; }
.navbar .navbar-nav .nav-link:hover { color: #fbc531; }
/*.navbar .navbar-nav .active > .nav-link { color: #fbc531; }*/

footer a.text-light:hover { color: #fed136!important; text-decoration: none; }
footer .cizgi { border-right: 1px solid #535e67; }
    </style>

</head>
```

```
<body>
    <header>
        <nav class="navbar navbar-expand-lg">
          <div class="container">
              <a class="navbar-brand text-
white" href="Home.html"><i class="fa fa-graduation-cap fa-lg mr-
2"></i>CODE NOW</a>
              <button class="navbar-toggler" type="button" data-
toggle="collapse" data-target="#nvbCollapse" aria-controls="nvbCollapse">
                <span class="navbar-toggler-icon"></span>
                </button>
              <div class="collapse navbar-collapse" id="nvbCollapse">
                  <ul class="navbar-nav ml-auto">
                      <li class="nav-item pl-1">
                          <a class="nav-
link" href="Home_Html.html"><i class="fa fa-code"></i> HTML</a>
                      </li>
                      <li class="nav-item active pl-1">
                          <a class="nav-link" href="#"><i class="fa fa-
css3"></i> CSS</a>
                      </li>
                      <li class="nav-item pl-1">
                          <a class="nav-link" href="#"><i class="fa fa-
file" aria-hidden="true"></i> PYTHON</a>
                      </li>
                      <li class="nav-item pl-1">
                          <a class="nav-
link" href="about.html"><i class="fa fa-phone fa-fw fa-rotate-180 mr-
1"></i> ABOUT</a>
                      </li>
                      <li class="nav-item pl-1">
                          <a class="nav-
link" href="register.html"><i class="fa fa-user-plus fa-fw mr-
1"></i> Login/Signup</a>
                      </li>
                      <li class="nav-item pl-1">
                          <a class="nav-
link" href="feedback.html"><i class="fa fa-comments"></i> Feedback</a>
                      </li>
                  </ul>
              </div>
          </div>
      </nav>
    </header>
    <main>
        <section class="carousel">
            <div class="carousel" data-
flickity='{ "autoPlay": true }' style="top: 50px;">
```

```
                <div class="carousel-
cell"><img src="https://miro.medium.com/max/10000/1*HLGtY6O2vUHqIyEbWdmBgA.jpeg
" alt="Image is here"width="100%" height="100%"></div>
                <div class="carousel-
cell"><img src="https://www.rasmussen.edu/-/media/images/blogs/school-of-
technology/2020/learn-to-
code.jpg?la=en&hash=FE00EF759F3DE1C0345EC71CBB5A2C4273D0A411" alt="Image is her
e" width="100%" height="100%"></div>
                <div class="carousel-
cell"><img src="https://dailyblogday.online/wp-
content/uploads/2020/12/coding.png" alt="Image is here"width="100%" height="100
%"></div>
                <div class="carousel-
cell"><iframe width="560" height="315" src="https://www.youtube.com/embed/Dv7gL
pW91DM" title="YouTube video player" frameborder="0" allow="accelerometer; clip
board-write; encrypted-media; gyroscope; picture-in-
picture" allowfullscreen></iframe></div>
                <div class="carousel-cell"><img src="https://spzone-
simpleprogrammer.netdna-ssl.com/wp-content/uploads/2020/11/image2-
1.png" alt="Image is here" width="100%" height="100%"></div>
                <div class="carousel-
cell"><img src="https://miro.medium.com/max/950/1*ECbwUEpGUV7ICGRUURF3Qw.jpeg"
alt="Image is here" width="100%" height="100%"></div>
            </div>

        </section>
    </main>
    <footer>
        <a href="FAQs.html" id="FAQ">FAQs</a>
        <a href="about.html">Contact</a>
        <a href="#">Terms of Use</a>
        <a href="#">Privacy Policy</a>
        <a href="#">Refund Policy</a>
        <a class="copyright" href="#">&copy; 2021 | Code Now</a>

    </footer>

    <script src="https://unpkg.com/flickity@2/dist/flickity.pkgd.min.js"></scri
pt>
    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap
.bundle.min.js" integrity="sha384-
MrcW6ZMFYlzcLA8Nl+NtUVF0sA7MsXsP1UyJoMp4YLEuNSfAP+JcXn/tWtIaxVXM" crossorigin="
anonymous"></script>
</body>
</html>
```

For Home Page(CSS file):

```
* {
    box-sizing: border-box;
    list-style: none;
}

body {
    margin: 0px;
    font-family: -apple-
system, BlinkMacSystemFont, 'Segoe UI', Roboto, Oxygen, Ubuntu, Cantarell, 'Ope
n Sans', 'Helvetica Neue', sans-serif;
}

main{
    background-image: url(code_letters_bg.png);
}

.banner{
    background-image: url("before nav.gif");
    height: 225px;
    min-height: 100px;
    background-attachment: fixed;
    background-position: top center;
    background-repeat: no-repeat;
    background-size: 50%;
    background-color: black;
}
main {
    flex: 100%;
    background-color: rgba(22, 224, 231, 0.192);
  }

section {
    text-align: center;
    height: 100%;
    padding: 75px 0px;
    min-height: 40vh;
}

section h2 {
    margin-bottom: 50px;
}

section h2 span {
    padding: 10px 55px;
    border-radius: 20px;
    color: #fff;
```

```
    background: #120f5e;
    background: linear-gradient(to right, #f57d37, #1299bb);
}


/*
Carousel code
*/

.carousel-cell {
  width: 75%;
  height: 300px;
  margin-right: 10px;
  border-radius: 5px;
}

footer {
    background-color: #333;
    overflow: hidden;
}

footer a {
    text-decoration: none;
    padding: 20px;
    text-align: center;
    float: left;
    color: white;
}
.copyright{
    float: right;
}

@media screen and (max-width: 700px) {
    footer,
    .sm-handle,
    nav {
      flex-direction: column;
      padding: 10px 0px;
    }

    .flex-align-left {
      margin-left: 0;
    }
  }
```

For feedback page[8] :

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Home | Feedback</title>
    <link rel="stylesheet" href="https://unpkg.com/flickity@2/dist/flickity.min
.css">
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap
.min.css" rel="stylesheet" integrity="sha384-
EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOmLASjC" crossorigin="
anonymous">
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.min.css">
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/5.12.1/css/all.min.css">
    <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.
0/css/bootstrap.min.css" integrity="sha384-
Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm" crossorigin="
anonymous">
        <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.2.1/jquery.
min.js"></script>
  <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.12.6/umd/popp
er.min.js"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/js/bootstrap.min
.js"></script>
    <style>
        .navbar { background-color: #484848; }
.navbar .navbar-nav .nav-link { color: #fff; }
.navbar .navbar-nav .nav-link:hover { color: #fbc531; }

footer a.text-light:hover { color: #fed136!important; text-decoration: none; }
footer .cizgi { border-right: 1px solid #535e67; }
@media (max-width: 992px) { footer .cizgi { border-right: none; } }
body{
            margin: 0px;
    text-align: center;
    font-family: -apple-
system, BlinkMacSystemFont, 'Segoe UI', Roboto, Oxygen, Ubuntu, Cantarell, 'Ope
n Sans', 'Helvetica Neue', sans-serif;
    background-image: url(feedback.png);
    background-blend-mode: #ffffff7e;
        }
        fieldset{
            border-radius: 7px;
```

```
    margin-left: 25%;
    margin-right: 25%;
}
.submit-button{
    padding: 15px 15px 15px 15px;
    border-radius: 10px;
    background-color: coral;
    color: black;
    margin: 15px;
}
.submit-button:hover{
    background-color:rgb(16, 66, 233);
    color: cornsilk;
}
#feedback{
    text-align: center;
    background-color: cyan;
    box-sizing: border-box;
    background-image: linear-
gradient(to right,rgba(176, 233, 21, 0.904),rgba(0, 55, 128, 0.733),rgba(255, 2
55, 0, 0.87));
    font-family: 'Times New Roman', Times, serif;
    font-weight: 950;
    color: black;
}

.head2-form{
    padding: 8px;
    letter-spacing: 1.5px;
    font-weight: bolder;
    font-family: cursive;
    word-spacing: 2.5px;
    background-color: rgba(240, 225, 12, 0.527);
    color: #000000;
    font-weight: 1000;
    font-size: large;
}
input[type="text"],
input[type="email"],
input[type="number"],
input[type="date"],
select{
    padding: 12px;
    border: 1px solid #ccc;
    border-radius: 5px;
    margin: 10px;
}
.rating-css div {
```

```
  color: #ffe400;
  font-size: 30px;
  font-family: sans-serif;
  font-weight: 800;
  text-align: center;
  text-transform: uppercase;
  padding: 20px 0;
}
.rating-css input {
  display: none;
}
.rating-css input + label {
  font-size: 60px;
  text-shadow: 1px 1px 0 #ffe400;
  cursor: pointer;
}
.rating-css input:checked + label ~ label {
  color: #838383;
}
.rating-css label:active {
  transform: scale(0.8);
  transition: 0.3s ease;
}
footer {
    background-color: #333;
    overflow: hidden;
}

footer a {
    text-decoration: none;
    padding: 20px;
    text-align: center;
    float: left;
    color: white;
}
.copyright{
    float: right;
}
    </style>
</head>
<body>
    <header>
        <nav class="navbar navbar-expand-lg">
          <div class="container">
              <a class="navbar-brand text-
white" href="Home.html"><i class="fa fa-graduation-cap fa-lg mr-
2"></i>CODE NOW</a>
```

```
            <button class="navbar-toggler" type="button" data-
toggle="collapse" data-target="#nvbCollapse" aria-controls="nvbCollapse">
                <span class="navbar-toggler-icon"></span>
            </button>
            <div class="collapse navbar-collapse" id="nvbCollapse">
                <ul class="navbar-nav ml-auto">
                    <li class="nav-item pl-1">
                        <a class="nav-
link" href="Home_Html.html"><i class="fa fa-code"></i> HTML</a>
                    </li>
                    <li class="nav-item active pl-1">
                        <a class="nav-link" href="#"><i class="fa fa-
css3"></i> CSS</a>
                    </li>
                    <li class="nav-item pl-1">
                        <a class="nav-link" href="#"><i class="fa fa-
file" aria-hidden="true"></i> PYTHON</a>
                    </li>
                    <li class="nav-item pl-1">
                        <a class="nav-link" href="#about"><i class="fa fa-
phone fa-fw fa-rotate-180 mr-1"></i> ABOUT</a>
                    </li>
                    <li class="nav-item pl-1">
                        <a class="nav-
link" href="register.html"><i class="fa fa-user-plus fa-fw mr-
1"></i> Login/Signup</a>
                    </li>
                    <li class="nav-item pl-1">
                        <a class="nav-
link " href="feedback.html"><i class="fa fa-comments"></i> Feedback</a>
                    </li>
                </ul>
            </div>
        </div>
    </nav>
</header>
<main>
    <section>
        <fieldset>
            <div class="head2-form" style="margin-top: 20px; border-
radius: 7px;">
                <p>Your valueable feedback will help in improving learning<
/p>
                <p>It will make us happy to know your comments .&#128522;</
p>
            </div>
            <form action="feedback.php" method="POST" id="feedback" style="
border-radius: 20px; margin-bottom: 20px;">
```

```
                    <p>Your First Name: <input type="text" name="first_name" pl
aceholder="Shubhi" required></p>
                    <p>Your email: <input type="email" name="email" id="email"
value="" placeholder="abcd1.ef@email.com" required></p>
                    <p>Your Feedback: <textarea name="comment" id="comment" col
s="30" rows="3" style="border-radius: 5px; color: chocolate; font-
weight: 800;" placeholder="Your Comments Here" required></textarea></p>
                    <div class="rating-css">
                        <div class="star-icon">
                          <input type="radio" name="rating1" id="rating1" value
="1">
                          <label for="rating1" class="fa fa-star"></label>
                          <input type="radio" name="rating1" id="rating2" value
="2">
                          <label for="rating2" class="fa fa-star"></label>
                          <input type="radio" name="rating1" id="rating3" value
="3">
                          <label for="rating3" class="fa fa-star"></label>
                          <input type="radio" name="rating1" id="rating4" value
="4">
                          <label for="rating4" class="fa fa-star"></label>
                          <input type="radio" name="rating1" id="rating5" value
="5">
                          <label for="rating5" class="fa fa-star"></label>
                        </div>
                      </div>
                    <input type="submit" name="submit" value="SUBMIT" class="su
bmit-button">
                </form>
            </fieldset>
        </section>
    </main>
    <footer>
        <a href="FAQs.html">FAQs</a>
        <a href="about.html">Contact</a>
        <a href="#">Terms of Use</a>
        <a href="#">Privacy Policy</a>
        <a href="#">Refund Policy</a>
        <a class="copyright" href="#">&copy; 2021 | Code Now</a>

    </footer>
</body>
</html>
```

For quiz page(HTML code):

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>HOME | HTML | Quiz</title>
    <link rel="stylesheet" href="style1.css">
    <!-- FontAweome CDN Link for Icons-->
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/5.15.3/css/all.min.css"/>
</head>
<body>
    <!-- start Quiz button -->
    <div class="start_btn"><button>Start Quiz</button></div>

    <!-- Info Box -->
    <div class="info_box">
        <div class="info-title"><span>Some Rules of this Quiz</span></div>
        <div class="info-list">
            <div class="info">1. You will have only <span>15 seconds</span> per
 each question.</div>
            <div class="info">2. Once you select your answer, it can't be undon
e.</div>
            <div class="info">3. You can't select any option once time goes off
.</div>
            <div class="info">4. You can't exit from the Quiz while you're play
ing.</div>
            <div class="info">5. You'll get points on the basis of your correct
 answers.</div>
        </div>
        <div class="buttons">
            <button class="quit">Exit Quiz</button>
            <button class="restart">Continue</button>
        </div>
    </div>

    <!-- Quiz Box -->
    <div class="quiz_box">
        <header>
            <div class="title">Awesome Quiz Application</div>
            <div class="timer">
                <div class="time_left_txt">Time Left</div>
                <div class="timer_sec">15</div>
            </div>
            <div class="time_line"></div>
        </header>
```

```
        <section>
            <div class="que_text">
            </div>
            <div class="option_list">
            </div>
        </section>
        <footer>
            <div class="total_que">
            </div>
            <button class="next_btn">Next Que</button>
        </footer>
    </div>

    <div class="result_box">
        <div class="icon">
            <i class="fas fa-crown"></i>
        </div>
        <div class="complete_text">You've completed the Quiz!</div>
        <div class="score_text">
        </div>
        <div class="buttons">
            <button class="restart">Replay Quiz</button>
            <button class="quit">Quit Quiz</button>
        </div>
    </div>
    <script src="js1/questions.js"></script>
    <script src="js1/script.js"></script>

</body>
</html>
```

For quiz page(JS Code-questions)[11]:

```
let questions = [
    {
    numb: 1,
    question: "What does HTML stand for?",
    answer: "Hyper Text Markup Language",
    options: [
      "Hyper Text Preprocessor",
      "Hyper Text Markup Language",
      "Hyper Text Multiple Language",
      "Hyper Tool Multi Language"
    ]
  },
    {
    numb: 2,
```

```
    question: "How many heading tags are there in HTML5?",
    answer: "6",
    options: [
      "2",
      "3",
      "6",
      "5"
    ]
  },
    {
    numb: 3,
    question: "Which of the following attributes is used to add link to any ele
ment?",
    answer: "href",
    options: [
      "link",
      "ref",
      "href",
      "newref"
    ]
  },
    {
    numb: 4,
    question: "Who designed HTML ?",
    answer: "Tim Berners-Lee",
    options: [
      "Tim Bunners-Lee",
      "Tim Berners-Lee",
      "Tom Berners-Lee",
      "None of the above"
    ]
  },
    {
    numb: 5,
    question: "_____ is the character entity used to display multiple spaces o
n a web page .",
    answer: " ",
    options: [
      "&whitespace",
      "&spa",
      "nbsp",
      "&ampnbsp"
    ]
  },
     {
    numb: 6,
    question: "The extension given to a web page is",
    answer: "both a and b",
```

```
    options: [
      ".htm",
      ".html",
      "both a and b",
      "none of these"
    ]
  },
];
```

For quiz(Script JS):

```
const start_btn = document.querySelector(".start_btn button");
const info_box = document.querySelector(".info_box");
const exit_btn = info_box.querySelector(".buttons .quit");
const continue_btn = info_box.querySelector(".buttons .restart");
const quiz_box = document.querySelector(".quiz_box");
const result_box = document.querySelector(".result_box");
const option_list = document.querySelector(".option_list");
const time_line = document.querySelector("header .time_line");
const timeText = document.querySelector(".timer .time_left_txt");
const timeCount = document.querySelector(".timer .timer_sec");

start_btn.onclick = ()=>{
    info_box.classList.add("activeInfo");
}

exit_btn.onclick = ()=>{
    info_box.classList.remove("activeInfo");
}

continue_btn.onclick = ()=>{
    info_box.classList.remove("activeInfo"); //hide info box
    quiz_box.classList.add("activeQuiz"); //show quiz box
    showQuetions(0);
    queCounter(1);
    startTimer(15);
    startTimerLine(0);
}

let timeValue =  15;
let que_count = 0;
let que_numb = 1;
let userScore = 0;
let counter;
let counterLine;
let widthValue = 0;
```

```
const restart_quiz = result_box.querySelector(".buttons .restart");
const quit_quiz = result_box.querySelector(".buttons .quit");

restart_quiz.onclick = ()=>{
    quiz_box.classList.add("activeQuiz"); //show quiz box
    result_box.classList.remove("activeResult"); //hide result box
    timeValue = 15;
    que_count = 0;
    que_numb = 1;
    userScore = 0;
    widthValue = 0;
    showQuetions(que_count);
    queCounter(que_numb);
    clearInterval(counter);
    clearInterval(counterLine);
    startTimer(timeValue);
    startTimerLine(widthValue);
    timeText.textContent = "Time Left";
    next_btn.classList.remove("show");
}

quit_quiz.onclick = ()=>{
    window.location.reload();
}

const next_btn = document.querySelector("footer .next_btn");
const bottom_ques_counter = document.querySelector("footer .total_que");

next_btn.onclick = ()=>{
    if(que_count < questions.length - 1){
        que_count++;
        que_numb++;
        showQuetions(que_count);
        queCounter(que_numb);
        clearInterval(counter); //clear counter
        clearInterval(counterLine); //clear counterLine
        startTimer(timeValue);
        startTimerLine(widthValue);
        timeText.textContent = "Time Left";
        next_btn.classList.remove("show");
    }else{
        clearInterval(counter);
        clearInterval(counterLine);
        showResult();
    }
}
function showQuetions(index){
    const que_text = document.querySelector(".que_text");
```

```
    let que_tag = '<span>'+ questions[index].numb + ". " + questions[index].que
stion +'</span>';
    let option_tag = '<div class="option"><span>'+ questions[index].options[0]
+'</span></div>'
    + '<div class="option"><span>'+ questions[index].options[1] +'</span></div>
'
    + '<div class="option"><span>'+ questions[index].options[2] +'</span></div>
'
    + '<div class="option"><span>'+ questions[index].options[3] +'</span></div>
';
    que_text.innerHTML = que_tag;
    option_list.innerHTML = option_tag;

    const option = option_list.querySelectorAll(".option");

    for(i=0; i < option.length; i++){
        option[i].setAttribute("onclick", "optionSelected(this)");
    }
}
let tickIconTag = '<div class="icon tick"><i class="fas fa-check"></i></div>';
let crossIconTag = '<div class="icon cross"><i class="fas fa-
times"></i></div>';

function optionSelected(answer){
    clearInterval(counter); //clear counter
    clearInterval(counterLine); //clear counterLine
    let userAns = answer.textContent; //getting user selected option
    let correcAns = questions[que_count].answer; //getting correct answer from
array
    const allOptions = option_list.children.length; //getting all option items

    if(userAns == correcAns){
        userScore += 1;
        answer.classList.add("correct");
        answer.insertAdjacentHTML("beforeend", tickIconTag);
        console.log("Correct Answer");
        console.log("Your correct answers = " + userScore);
    }else{
        answer.classList.add("incorrect");
        answer.insertAdjacentHTML("beforeend", crossIconTag);
        console.log("Wrong Answer");

        for(i=0; i < allOptions; i++){
            if(option_list.children[i].textContent == correcAns){
                option_list.children[i].setAttribute("class", "option correct")
; //adding green color to matched option
                option_list.children[i].insertAdjacentHTML("beforeend", tickIco
nTag); //adding tick icon to matched option
```

```
                console.log("Auto selected correct answer.");
            }
        }
    }
    for(i=0; i < allOptions; i++){
        option_list.children[i].classList.add("disabled");
    }
    next_btn.classList.add("show");
}

function showResult(){
    info_box.classList.remove("activeInfo"); //hide info box
    quiz_box.classList.remove("activeQuiz"); //hide quiz box
    result_box.classList.add("activeResult"); //show result box
    const scoreText = result_box.querySelector(".score_text");
    if (userScore > 3){
        let scoreTag = '<span>and congrats! 🎉, You got <p>'+ userScore +'</p> o
ut of <p>'+ questions.length +'</p></span>';
        scoreText.innerHTML = scoreTag;
    }
    else if(userScore > 1){ // if user scored more than 1
        let scoreTag = '<span>and nice 😎, You got <p>'+ userScore +'</p> out of
 <p>'+ questions.length +'</p></span>';
        scoreText.innerHTML = scoreTag;
    }
    else{ // if user scored less than 1
        let scoreTag = '<span>and sorry 😐, You got only <p>'+ userScore +'</p>
out of <p>'+ questions.length +'</p></span>';
        scoreText.innerHTML = scoreTag;
    }
}

function startTimer(time){
    counter = setInterval(timer, 1000);
    function timer(){
        timeCount.textContent = time;
        time--;
        if(time < 9){
            let addZero = timeCount.textContent;
            timeCount.textContent = "0" + addZero;
        }
        if(time < 0){ //if timer is less than 0
            clearInterval(counter);
            timeText.textContent = "Time Off";
            const allOptions = option_list.children.length;
            let correcAns = questions[que_count].answer;
            for(i=0; i < allOptions; i++){
                if(option_list.children[i].textContent == correcAns){
```

```
                    option_list.children[i].setAttribute("class", "option corre
ct");
                    option_list.children[i].insertAdjacentHTML("beforeend", tic
kIconTag);
                    console.log("Time Off: Auto selected correct answer.");
                }
            }
            for(i=0; i < allOptions; i++){
                option_list.children[i].classList.add("disabled");
            }
            next_btn.classList.add("show");
        }
    }
}

function startTimerLine(time){
    counterLine = setInterval(timer, 29);
    function timer(){
        time += 1;
        time_line.style.width = time + "px";
        if(time > 549){
            clearInterval(counterLine);
        }
    }
}

function queCounter(index){
    let totalQueCounTag = '<span><p>'+ index +'</p> of <p>'+ questions.length +
'</p> Questions</span>';
    bottom_ques_counter.innerHTML = totalQueCounTag;
}
```

For Feedback(PHP code)[10]:

```
<?php
    $server_name="localhost";
    $username="root";
    $password="";
    $database_name="feedback";
    $conn=mysqli_connect ($server_name, $username, $password, $database_name);
    if(!$conn)
    {
        die( "Connection Failed:" . mysqli_connect_error());
    }

    if(isset($_POST['submit']))
    {
```

```
        $first_name = $_POST['first_name'];
        $email = $_POST['email'];
        $comment = $_POST['comment'];
        $ratings = $_POST['rating1'];

        $sql_query = "INSERT INTO feedback_tb(first_name, email, comment,rating
1) VALUES ('$first_name','$email','$comment','$ratings')";

        if (mysqli_query($conn, $sql_query) )
        {
            echo '<script>alert("Thanks for your feedback")</script>';
            echo file_get_contents("Home.html");
        }
        else
        {
            echo "Error:"."".mysqli_error($conn);
        }
        mysqli_close($conn);
    }
?>
```

3.2) SCREEN SHOTS OF THE FINAL WEB PAGE

After implementing HTML , CSS , JavaScript and SQL to build the website , it turns out to be a functional website to learn computer languages . The screenshots for the same are as follows :

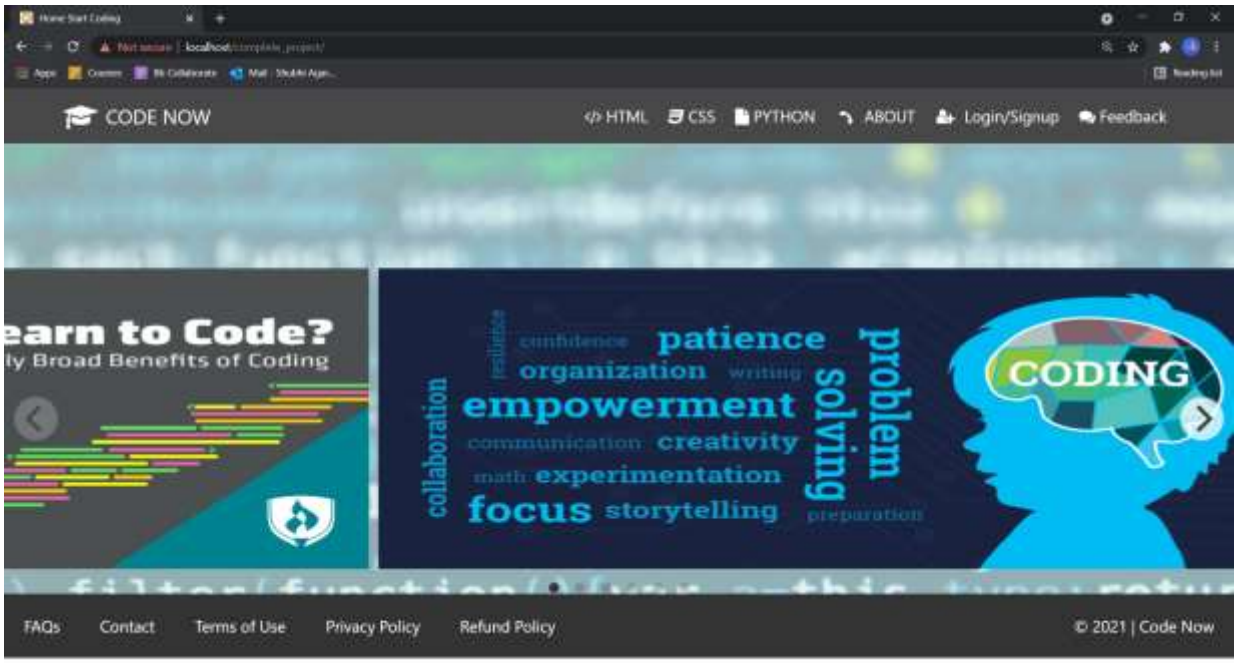


FIG 3.1- HOME PAGE

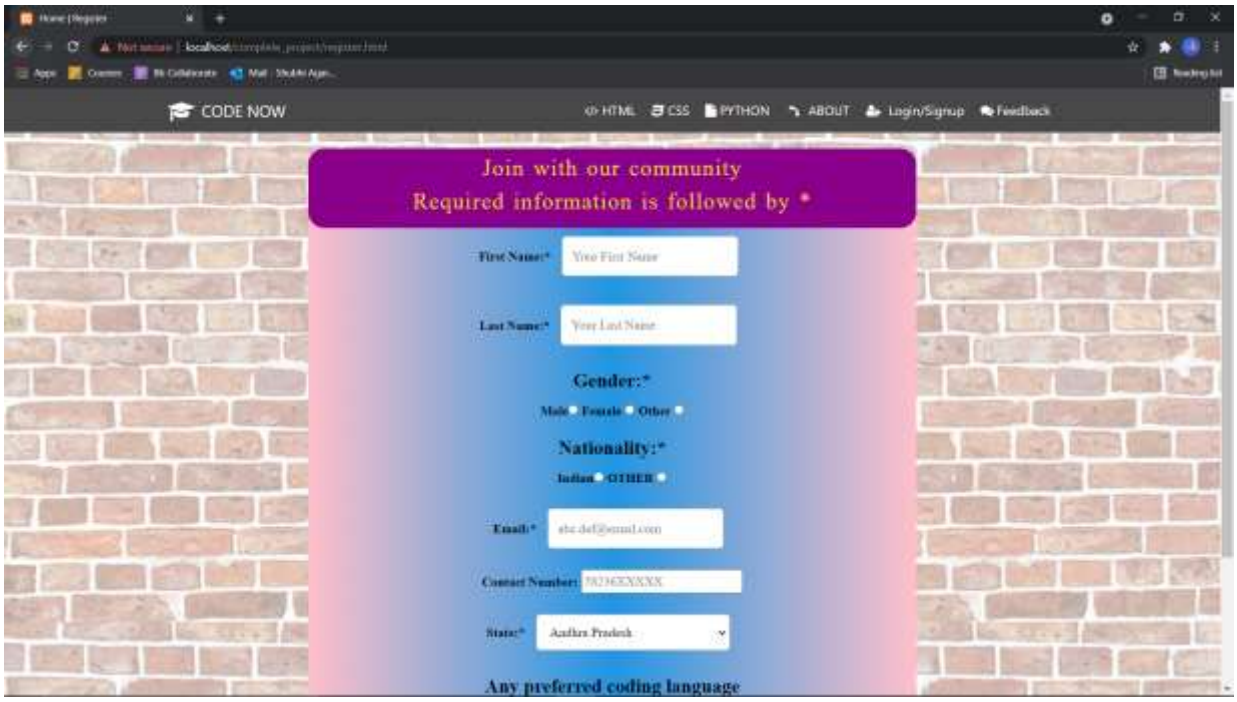


FIG 3.2- REGISTRATION PAGE

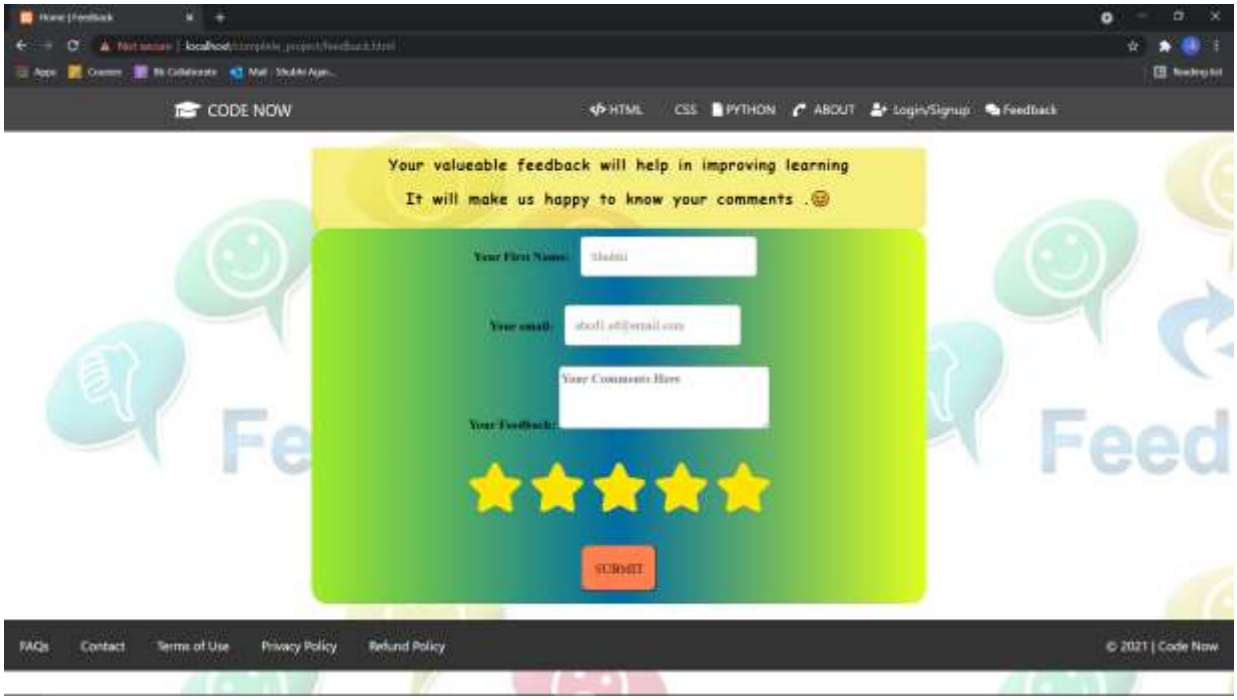


FIG 3.3- FEEDBACK PAGE

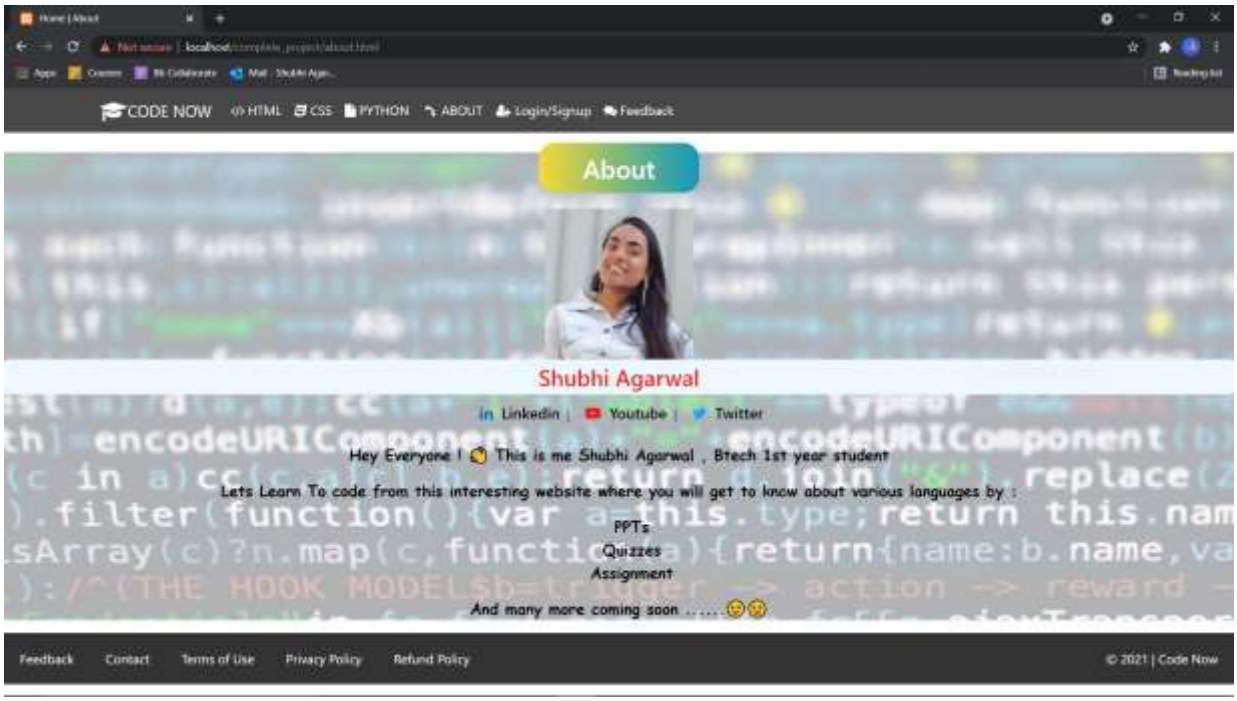


FIG 3.4- ABOUT PAGE

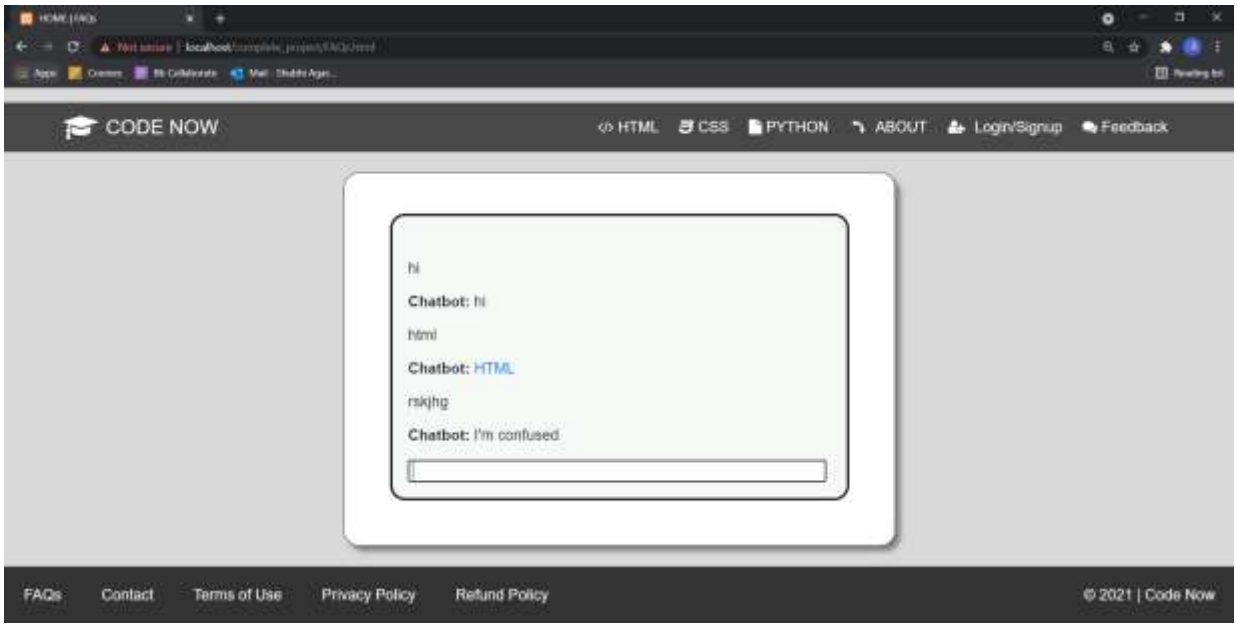


FIG 3.5- FAQs PAGE

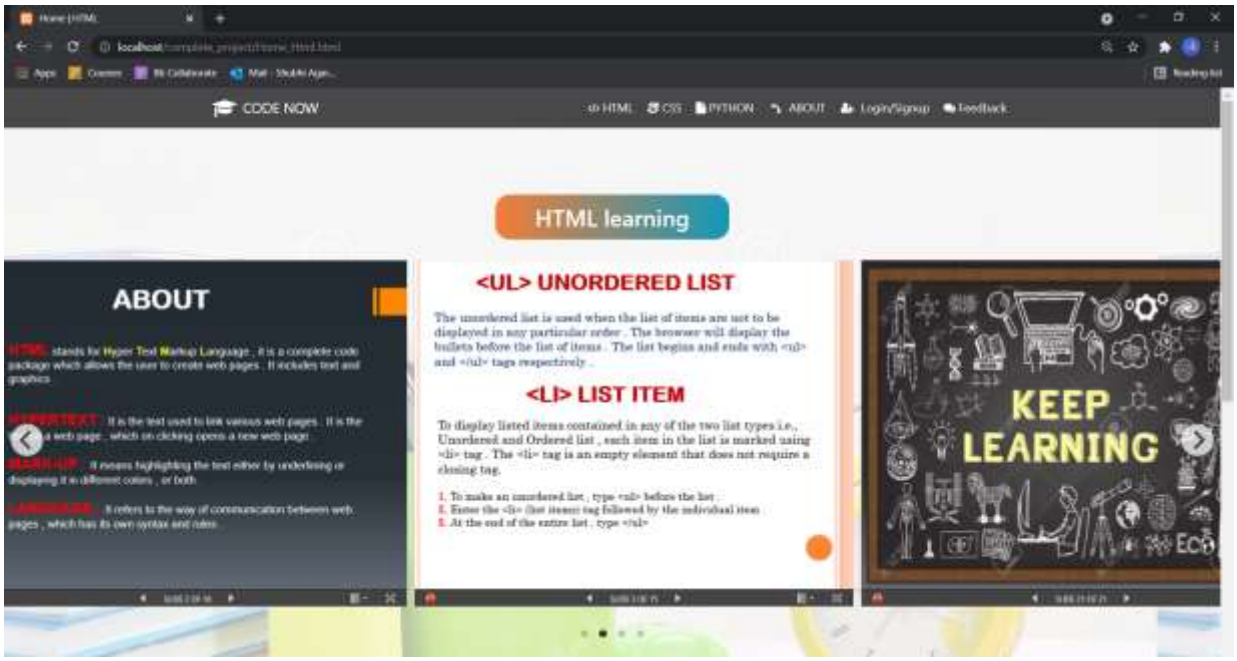


FIG 3.6- HTML PAGE(1)

FIG 3.7- HTML PAGE(2)

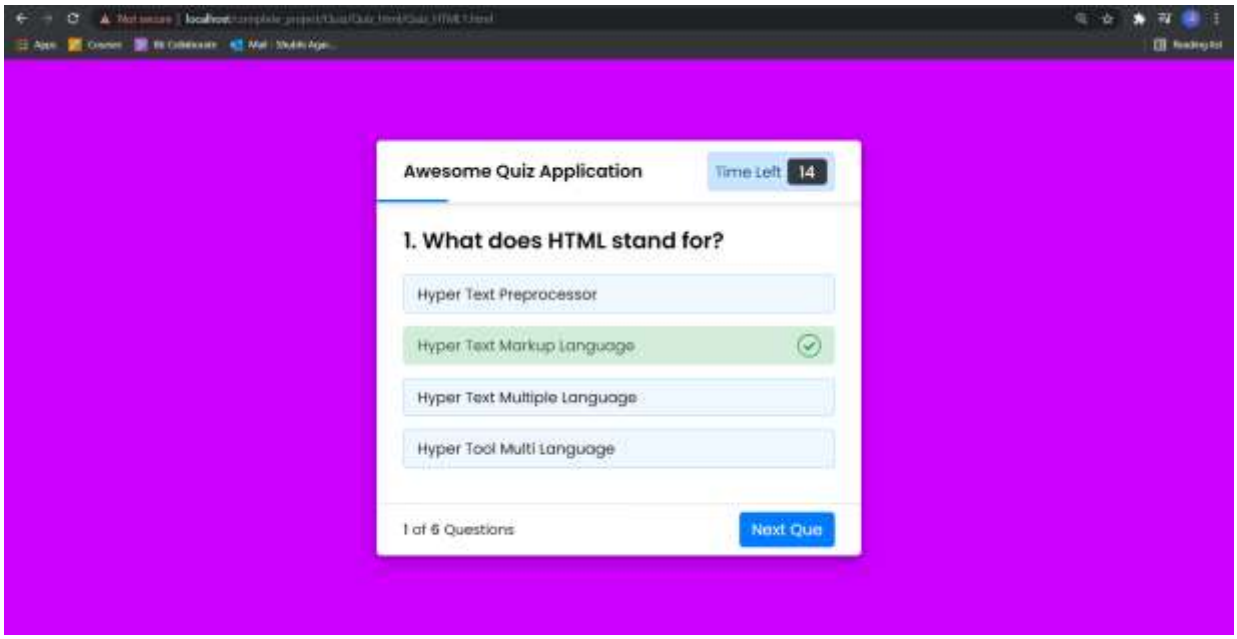


FIG 3.8- QUIZ PAGE

LINK OF PROJECT CODE:

https://drive.google.com/drive/folders/15PPo6BeEbwVB2hVs_EEBvYtB5sHk9tQT?usp=sharing

CHAPTER-4

CONCLUSION AND FUTURE SCOPE

4.1) CONCLUSION

My project deals with the basic and fundamental start in the way of learning different coding language . The objective of the software planning is to have as well as provide a framework with a fixed time constraint for the project completion and as well as keep the track on what to achieve as an end product .

4.2) SCOPE IN FUTURE

- The website could add more functionality in it.
- The user could be provided with the track of his/her progress in learning .
- The discussion panel could be created for the users to interact and discuss doubts .
- More languages could be introduced while passing time .
- In chatbot speech to text recognition technique could be added for the users to search while speaking .
- Users could receive notifications of the updation in the website via email or messages .
- Live events can be added

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