Meerut Institute of Engineering and Technology, Meerut

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Session: 2020-2021

MINI PROJECT REPORT

On "TIP CALCULATOR"

BACHELOR OF TECHNOLOGY IN COMPUTER

SCIENCE AND ENGINEERING

Submitted to-

(MR. PRATIK SHRIVASTAVA)

(Department of Computer Science & Engineering)

Submitted by-

Student name: Vansh Rana   Roll No. :1900680100371

3RD SEMESTER

DEPARTMENT OF COMPUTER

SCIENCE AND ENGINEERING/IT/EC/EE/BT/ME

MEERUT INSTITUTE OF ENGINEERING AND TECHNOLOGY, MEERUT

DECLARATION

I hereby declare that the project entitled -**"TIP CALCULATOR"**, which is being submitted as Mini Project in department of Computer Science and Engineering to Meerut Institute of Engineering and Technology, Meerut (U.P.) is an authentic record of my genuine work done under the guidance of **Prof."Mr. Pratik Shrivastava"** of Computer Science and Engineering, Meerut Institute of Engineering and Technology, Meerut.

Date: 24-09-2020   Name of Student: Vansh Rana

Place: MIET   Roll no.: 1900680100371

CERTIFICATE

This is to certify that mini project report entitled –**"Tip Calculator"** submitted by **"Vansh Rana"** has been carried out under the guidance of **Prof."Mr. Pratik Shrivastava"** of Computer Science and Engineering, Meerut Institute of Engineering and Technology, Meerut. This project report is approved for Mini Project (KCN 354) in 3rd semester in **"DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING"** from Meerut Institute of Engineering and Technology, Meerut.

Internal Examiner:

Date:

ACKNOWLEDGEMENT

I express my sincere indebtedness towards our guide **Prof."Mr. Pratik Shrivastava"** of Computer Science and Engineering, Meerut Institute of Engineering and Technology, Meerut for his valuable suggestion, guidance and supervision throughout the work. Without his kind patronage and guidance the project would not have taken shape. I would also like to express my gratitude and sincere regards for his kind approval of the project. Time to time counselling and advises.

I would also like to thank to our **HoD Dr. (Prof.) "Sunil Kumar"** Department of Computer Science and engineering, Meerut Institute of Engineering and Technology, Meerut for his expert advice and counselling from time to time.

I owe sincere thanks to all the faculty members in the department of Computer Science and engineering for their kind guidance and encouragement time to time.

Date: 24-09-2020   Student name: Vansh Rana

TABLE OF CONTENTS

DESCRIPTION

This mini project contains a website with a single page, that includes a tip calculator. This calculator contains input fields namely:

- Bill Amount
- Service Quality / Customer Experience
- Number of People

When values are entered in these fields, based on the service quality or customer experience. Amount of tip to be given is calculated. In case of more than one individual, tip for each individual is calculated.

CHAPTER NO-1

INTRODUCTION

In this presentation various html tags are been used for the designing of a webpage along with CSS and JavaScript. Much helpful information has been provided throughout the document. Here, **"TIP CALCULATOR"** has been created by using various tags to calculate amount of tip to be given in rupees based on the quality of one's experience.
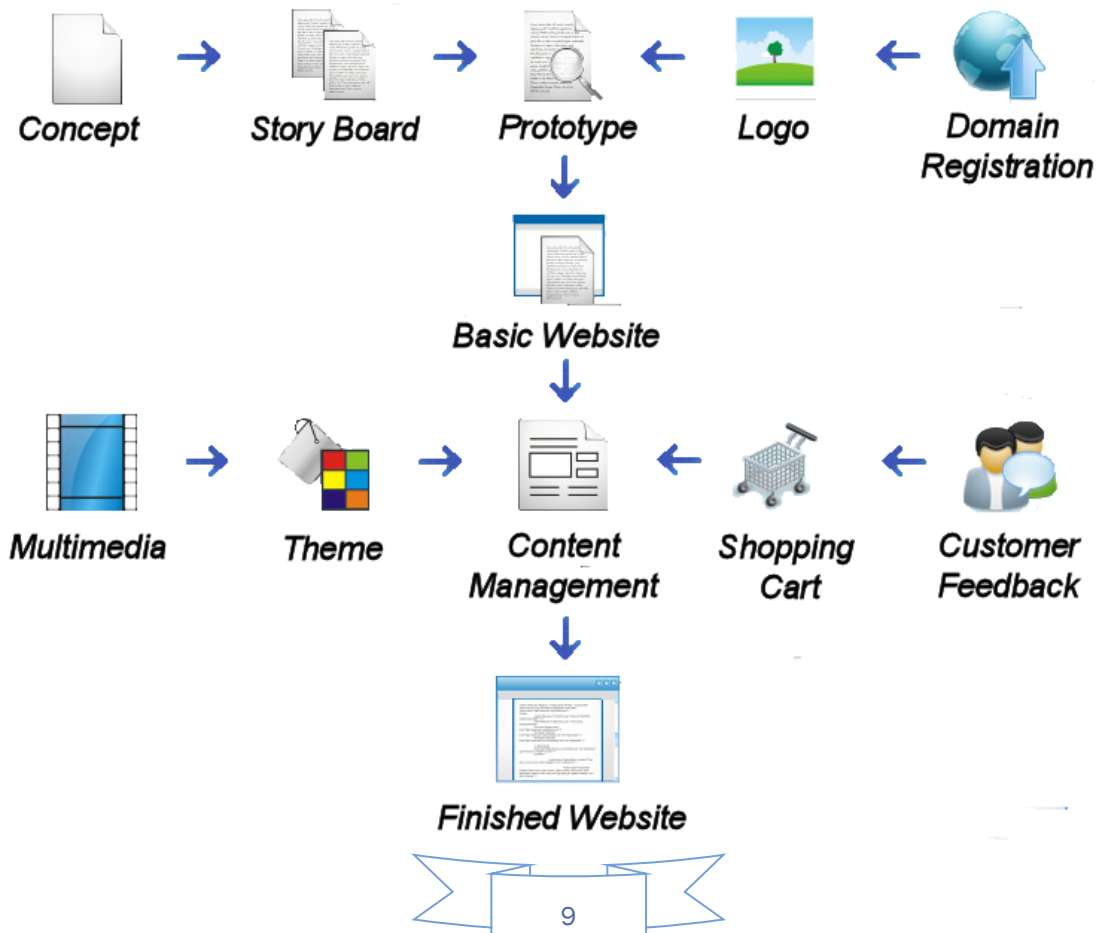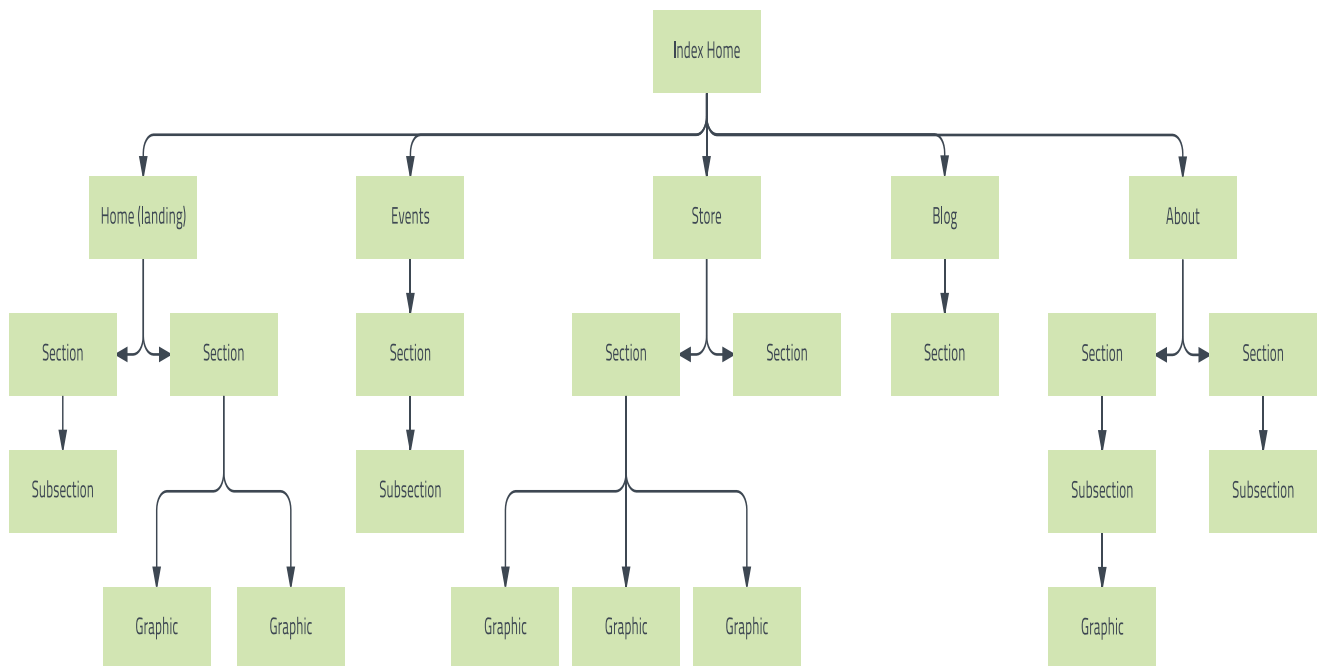
CHAPTER NO.-2
SYSTEM DESIGN

- **Website purpose:** Our website needs to accommodate the needs of the user. Having a simple clear intention on all pages will help the user interact with what you have to offer.

- **Structured:** The document is written semantically and logically, with styles.

- **Simplicity:** It is the best way to go when considering the use. Experience and the usability of our website like color,   type, image.

- **Gridbasedlayout:** It help to structure our design and keep our content organized. It helps to align elements on the page and keep it clean.

- **Documented:** All elements are described for others to use and extend

- **Accurate:** The final output is an appropriate representation of the intended design

FLOW CHART(S):

Index Home

Home (landing) — Events — Store — Blog — About

Home (landing): Section — Section
- Section → Subsection
- Section → Graphic, Graphic

Events: Section → Subsection

Store: Section — Section
- Section → Graphic, Graphic, Graphic

Blog: Section

About: Section — Section
- Section → Subsection → Graphic
- Section → Subsection

Concept → Story Board → Prototype ← Logo ← Domain Registration

Prototype → Basic Website

Basic Website → Content Management

Multimedia → Theme → Content Management ← Shopping Cart ← Customer Feedback

Content Management → Finished Website

CHAPTER NO.-3

TECHNOLOGY BUCKET:

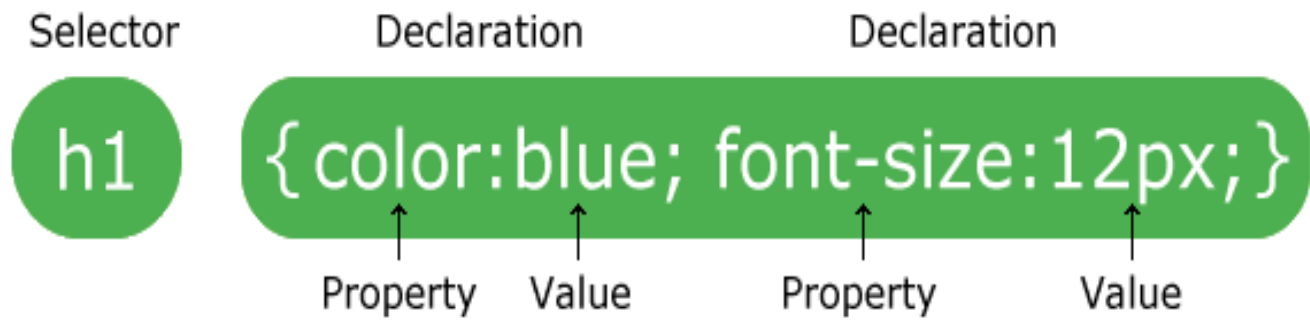## 1.DESCRIPTION OF HTML

HTML INTRODUCTION

- 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
- The `<div>` element defines a section in a document.
- The `<label>` element defines a label for an <input>element
- The `<span>` element defines a section in a document

2.DESCRIPTION OF CSS

CSS is the language we use to style an HTML document.

- **CSS** stands for **C**ascading **S**tyle **S**heets
- CSS describes **how HTML elements are to be displayed on 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 are stored in **CSS files**

- CSS is used to define styles for your web pages, including the design, layout and variations in display for different devices and screen sizes.

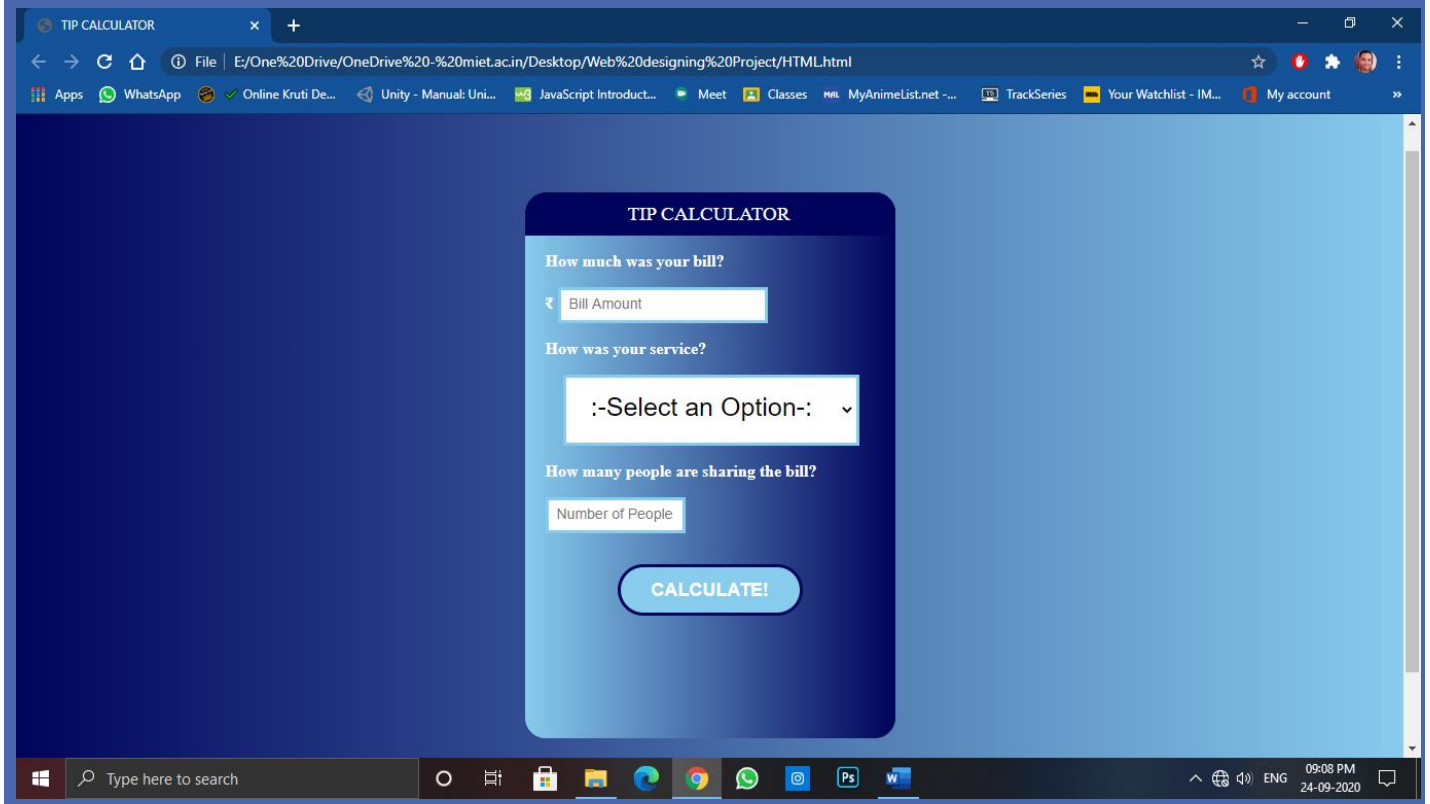- A CSS rule-set consists of a selector and a declaration block:

CSS EXAMPLE

```
body {
  background-color: lightblue;
}

h1 {
  color: white;
  text-align: center;
}

p {
  font-family: verdana;
  font-size: 20px;
}
```
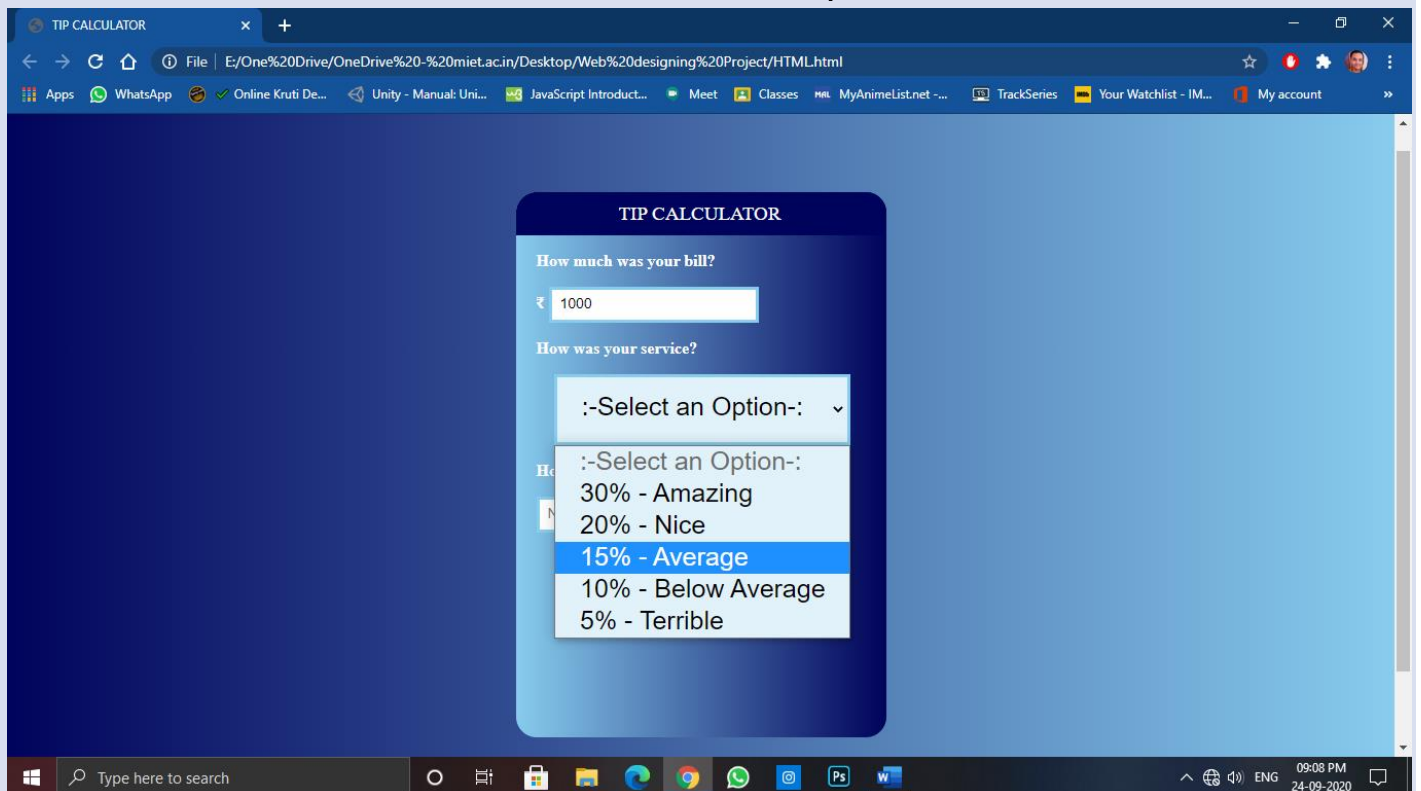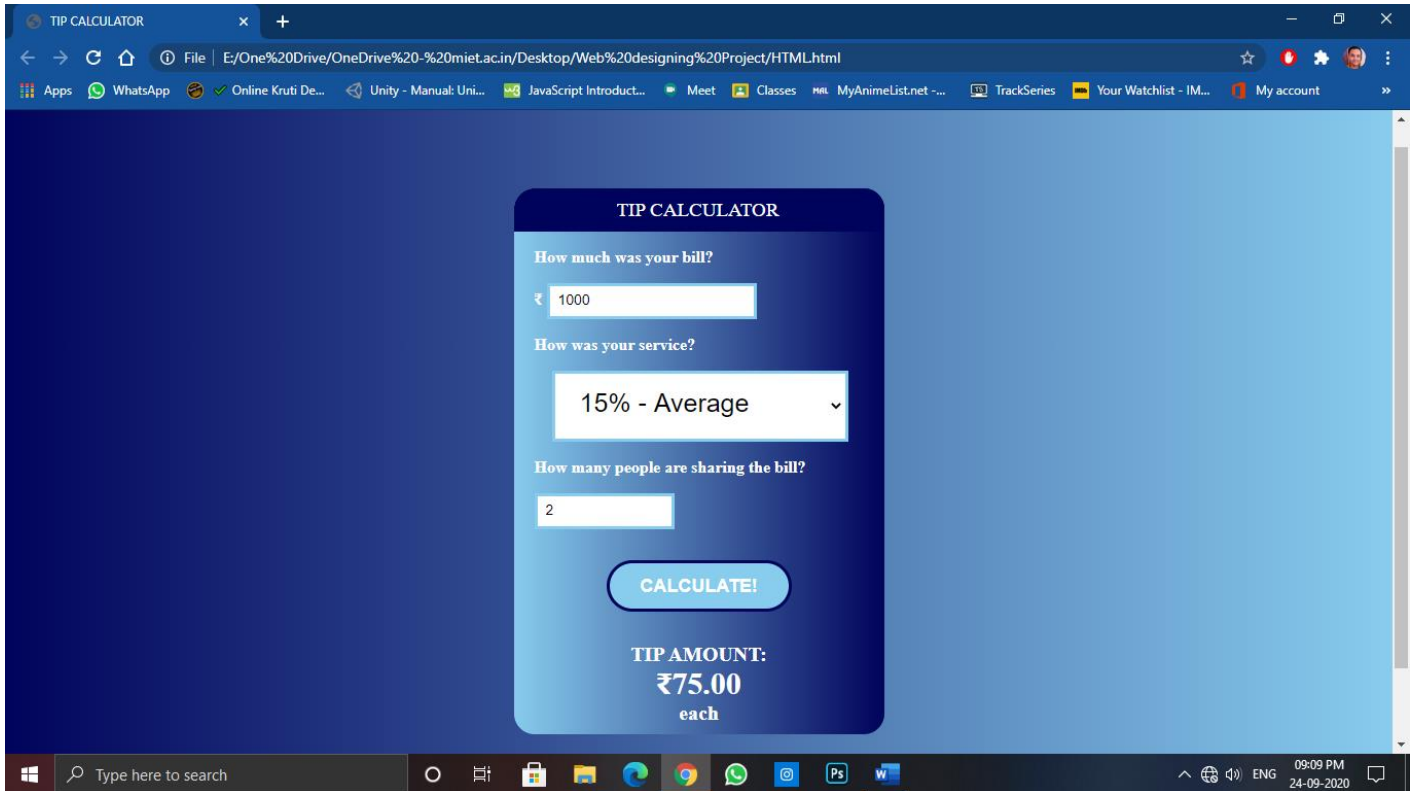
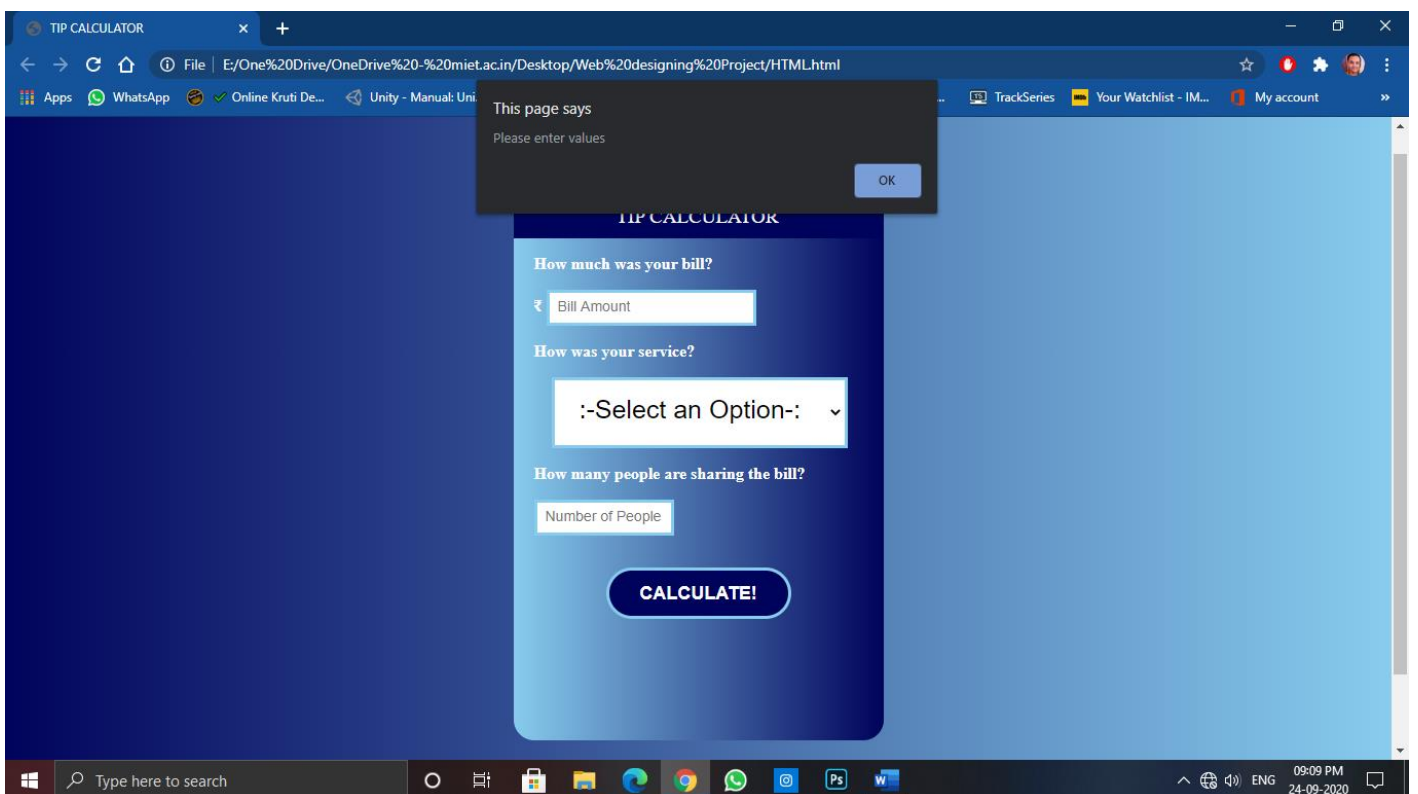# CHAPTER NO.-4

OUTPUTSCREEN
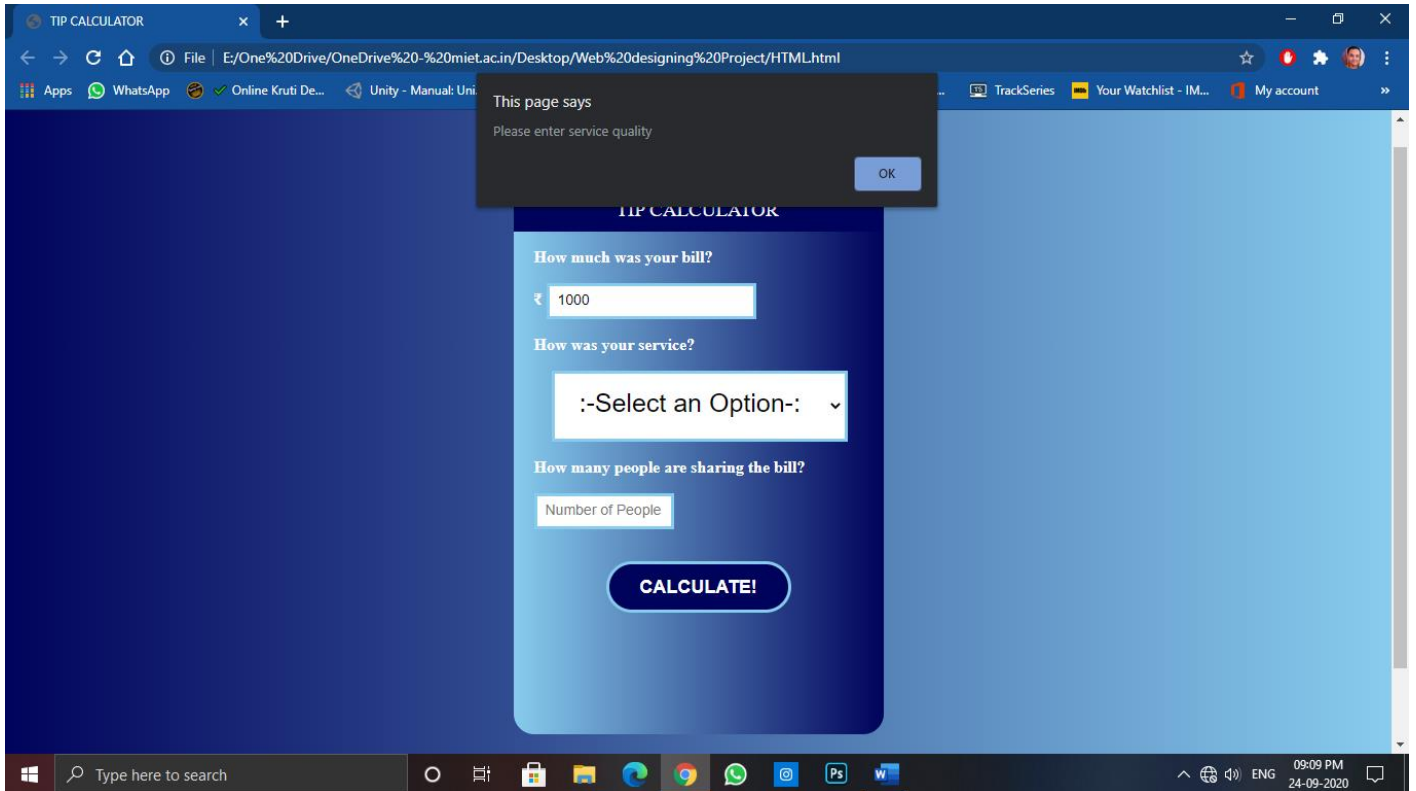

MAIN VIEW OF THE WEBSITE / CALCULATOR

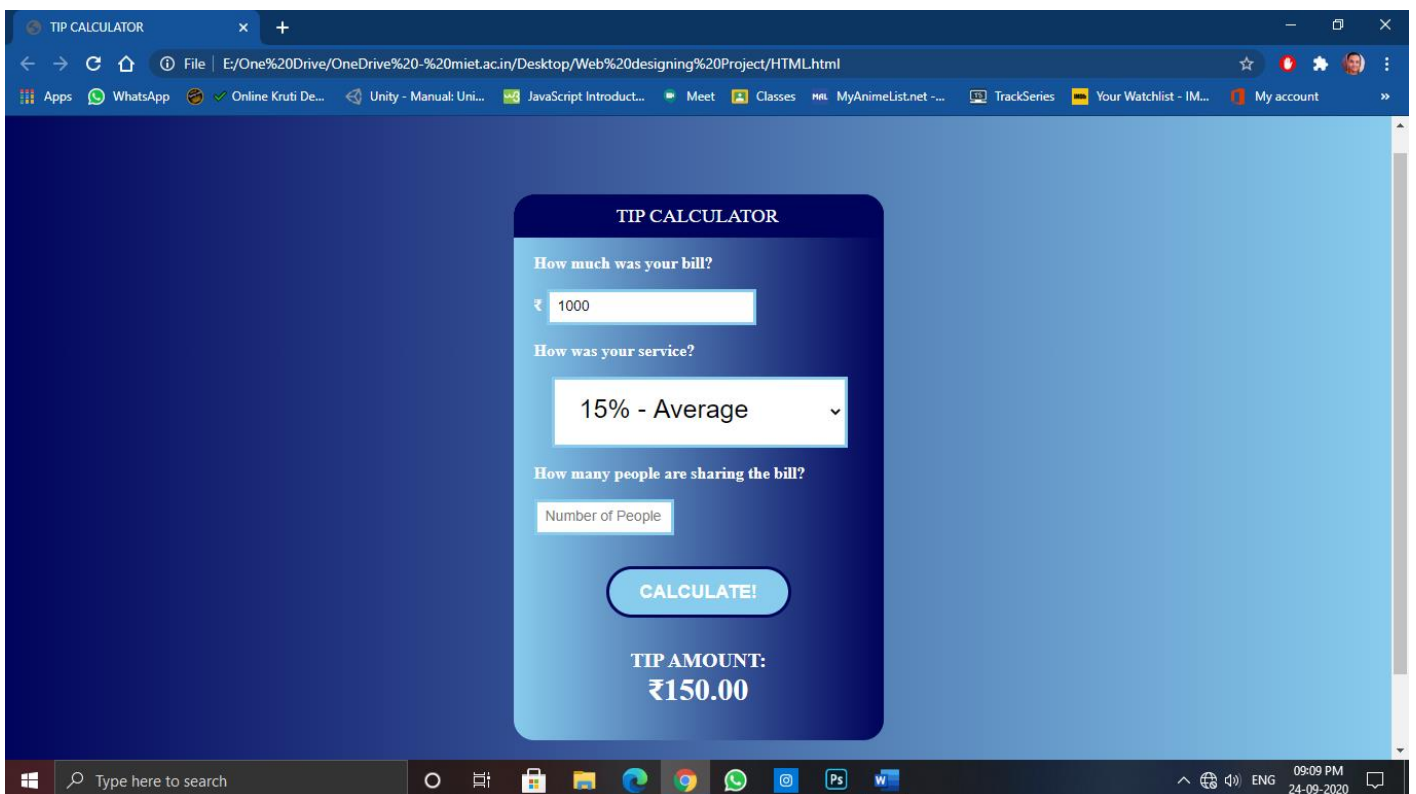### BILL AMOUNT ENTERED AND SERVICE QUALITY DROP DOWN LIST

ALL INFO ENTERED AND TIP FOR EACH INDIVIDUAL DISPLAYED

IF NO VALUES ARE ENTERED THEN POP UP IS DISPLAYED

IF SERVICE QUALITY IS NOT ENTERED THEN POP UP IS DISPLAYED

IF NO VALUE IS ENTERED IN NUMBER OF PEOPLE THEN IT'S DEFAULT VALUE ONE IS USED

APPENDICES

HTML CODE

```html
<DOCTYPE! html>
<html>
<title>TIP CALCULATOR</title>
<body>
<head>
  <link rel="stylesheet" href="CSS.css">
</head>
<div id="container">
  <h1>Tip Calculator</h1>
  <div id="calculator">
    <form>
     <p>How much was your bill?
      <p>
        ₹ <input id="billamt" type="text" placeholder="Bill Amount">
          <p>How was your service?
          <p>
            <select id="servicequal">
         <option disabled selected value="0">:-Select an Option-
                           :</option>
         <option value="0.3">30% - Amazing</option>
         <option value="0.2">20% - Nice</option>
```

```html
        <option value="0.15">15% - Average</option>
        <option value="0.1">10% - Below Average</option>
        <option value="0.05">5% - Terrible</option>
    </select>
  </form>
  <p>How many people are sharing the bill?</p>
  <input id="peopleamt" type="text" placeholder="Number of People">
  <button type="button" id="calculate">Calculate!</button>

 </div>
 <!--calculator end-->
 <div id="totalTip">
   ₹<span id="tip">0.00</span>
   <small id="each">each</small>
 </div>
 <!--totalTip end-->

</div>
<!--container end-->

<script type="text/javascript" src="JS.js"></script>
</body>
</html>
```

JAVSCRIPT (JSS FILE)

```javascript
//Calculate Tip

function calculateTip()

{

  var billamt = document.getElementById("billamt").value;

  var servicequal = document.getElementById("servicequal").value;

  var numppl = document.getElementById("peopleamt").value;


  //validate input

  if (billamt === "" && servicequal == 0)

  {

    alert("Please enter values");

    return;

  }

  else if (billamt == 0 || billamt === "")

  {

    alert("Please enter bill amount");

    return;

  }

  else if (servicequal == 0)

  {
```

```
  alert("Please enter service quality");

  return;

}


//Check to see if this input is empty or less than or equal to 1

if (numppl === "" || numppl <= 1)

{

  //use 1 by default

  numppl = 1;

  document.getElementById("each").style.display = "none";

}

else

{

  document.getElementById("each").style.display = "block";

}


//Calculate tip

var total = (billamt * servicequal) / numppl;


//round to two decimal places

total = Math.round(total * 100) / 100;
```

```javascript
  //next line allows us to always have two digits after decimal point
  total = total.toFixed(2);


  //Display the tip
  document.getElementById("totalTip").style.display = "block";
  document.getElementById("tip").innerHTML = total;
}


//Hide the tip amount on load
document.getElementById("totalTip").style.display = "none";
document.getElementById("each").style.display = "none";


//click to call function
document.getElementById("calculate").onclick = function()
{
  calculateTip();
};
```

CASCADING STYLE SHEET CODE (CSS)

```css
body {

  font-family: roboto;

  font-weight: bold;

  background: #88ccee;

  background: linear-gradient(to left, #88ccee, #00035b);

}


#container {

  color:white;

  height: 530px;

  width: 360px;

  margin: 100px auto;

  background: #88ccee;

  background: linear-gradient(to right, #88ccee, #00035b);

  border-radius:20px;

}


h1 {

  background: #00035b;
```

```css
    color: white;

    margin: 0;

    padding: 10px 100px;

    text-transform: uppercase;

    font-size: 19px;

    font-weight: normal;

    border-top-left-radius: 20px;

    border-top-right-radius: 20px;

}


p {

    padding-left: 20px;

}


form input[type="text"] {

    width=90px;

}


input {

    padding-left: 20px;

}
```

```css
#billamt{

  border: 3px solid #88ccee;

  outline: none;

  font-size: 14px;

  width: 60%;

  padding: 5px 5px 8px 8px;

}


#billamt:hover{

  background: #e1f2fb;

  outline: none;

}

#peopleamt {

  outline: none;

  border: 3px solid #88ccee;

  width: 38%;

  padding: 5px 5px 8px 8px;

  margin-left: 20px;

  font-size: 14px;

}

#peopleamt:hover {

  background: #e1f2fb;
```

```css
  outline: none;

}


#servicequal {

  outline: none;

  border: 3px solid #88ccee;

  padding: 13px 0px 20px 20px;

  margin-left: 17px;

  font-size: 25px;

}


#servicequal:hover {

  background: #e1f2fb;

  outline: none;

}


button {

  border: 3px solid #00035b;

  outline: none;

  text-transform: uppercase;

  font-weight: bold;

  display: block;
```

```css
  margin: 30px auto;

  background: #88ccee;

  border-radius: 100px;

  width: 180px;

  height: 50px;

  font-size: 18px;

  color: white;

}


button:hover {

  border: 3px solid #88ccee;

  outline: none;

  background: #00035b;

}


button:active {

  border: 3px solid #88ccee;

  outline: none;

  position: relative;

  top: 1px;

}
#totalTip {
```

```css
  font-size: 30px;

  margin-top: 5px;

  text-align: center;

}


#totalTip:before {

  content: "Tip amount:";

  font-size: 20px;

  font-weight: bold;

  display: block;

  text-transform: uppercase;

}


#totalTip sup {

  font-size: 20px;

  top: -18px;

}


#totalTip small {

  font-size: 20px;

  font-weight: bold;

  display: block;  }
```