

WEB PROGRAMMING

ASSIGNMENT-11 (JavaScript)

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Course Slot: TG1

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LAB 11 – TASK 1 - HTML:

```
<!DOCTYPE html>
<html>
  <head>
    <title>Bank loan approval system</title>
    <style>
      body{
        background-color:blanchedalmond;
      }
      .container{
        height: 60vh;
        width: 40vw;
        margin: auto;
        padding-top:20px;
        background-color:skyblue;
        border-radius: 1.5rem;
      }
      .formm{
        display: flex;
        flex-direction: column;
        gap:10px;
        margin: 20px;
      }
      #error{
        color:red;
      }
    </style>
  </head>
  <body>
    <div class="container">
      <h1 style="text-align:center;margin:auto;height:50px;width:60%;background-color:yellowgreen;border-radius:1rem;">Check Your Loan Eligibility</h1>
      <div>
        <form class="formm">
          AGE: <input type="text" id="age" class="num"/>
          SALARY: <input type="text" id ="salary" class="num"/>
          Credit-Score: <input type="text" id ="credit-score" class="num"/>
        </form>
        <div style="text-align:center;gap:20px;">
```

```

<input type="button" onclick="submitted()" value="submit"
style="background-color:yellowgreen; border:none; height:30px; width:70px; border-
radius:2rem;"/>
<p id="error"></p>
</div>
</div>
</div>
<script type="text/javaScript" src="Task1.js"></script>
</body>
</html>

```

LAB 11 – TASK 1 - JavaScript:

```

function submitted(){
    var age = Number(document.getElementById("age").value);
    var salary = Number(document.getElementById("salary").value);
    var Cred = Number(document.getElementById("credit-score").value);
    var inputs = document.querySelectorAll(".num");
    if(age < 21 || age>60){
        document.getElementById("error").innerHTML = "The age must be between 21 and
60";
        return;
    }
    else if(salary<50000){
        document.getElementById("error").innerHTML = "The salary must be greater than
50,000";
        return;
    }
    else if (Cred<700 && salary<100000){
        document.getElementById("error").innerHTML = "Either the salary must be greater
than 100000 or the Credit score of the customer must be greater than 700";
        return;
    }else{
        document.getElementById("error").innerHTML = "Document submitted
Successfully!";
    }
    for(let input of inputs){
        if(isNaN(input.value)){
            document.getElementById("error").innerHTML = ` ${input.id} must be a number`;
            return;
        }
    }
}

```

```
    }  
}  
}
```

LAB 11 – TASK 1 - Screenshots:

The screenshot shows a web browser window with the URL `/Users/srivani/Downloads/24BCE5407%20(jan%2021)/24BCE5407%20(jan%2021)/LAB-11%20(1)/Task1/Task1.html`. The page title is "Check Your Loan Eligibility". It contains three input fields: "AGE" with value "26", "SALARY" with value "80000", and "Credit-Score" with value "721". A green "submit" button is below the inputs. A success message "Document submitted Successfully!" is displayed at the bottom.

LAB 11 – TASK 2 – HTML:

```
<!DOCTYPE html>
<html>
  <head>
    <title>SMART TRAFFIC LIGHT SYSTEM</title>
    <link rel="stylesheet" type="text/css" href="Task2.css"/>
  </head>
  <body>
    <div class="container">
      <h1>Smart traffic light system</h1>
      <div class="inner-container">
        <form>
          Time(24hr-format): <input type="text" id="time" />
          Count(vehicles): <input type="text" id="count" />
        </form>
        <input value="submit" type="button" id="submit-btn" onclick="findTime()"/>
        <p id="output">Green Light is On for the next:<span id="req"></span></p>
      </div>
    </div>
    <script type="text/javascript" src="Task2.js"></script>
  </body>
</html>
```

LAB 11 – TASK 2 – JavaScript:

```
function findTime(){
  var time = Number(document.getElementById("time").value);
  var count = document.getElementById("count").value;
  if((time>=7 && time<=10) || (time>=17 && time <=20)){
    if(count<50){
      document.getElementById("req").innerHTML = "60";
    }else{
      document.getElementById("req").innerHTML = "80";
    }
  }
}
```

```

        }
    }else if((time>24 || time<1)){
        document.getElementById("output").innerHTML = "Invalid time input!";
        return;
    }else{
        if(count<50){
            document.getElementById("req").innerHTML = "30";
        }else{
            document.getElementById("req").innerHTML = "50";
        }
    }
}

```

LAB 11 – TASK 2 – CSS:

```

*{
    margin: 0;
    padding: 0;
    box-sizing: border-box;
    font-family: roboto;
}

body{
    background-color: #1a1a2e;
    display: flex;
    justify-content: center;
    align-items: center;
    height: 100vh;
    color: #ffffff;
}

.container{
    background: #16213e;
    padding: 2rem;
    border-radius: 15px;
    box-shadow: 0 10px 30px rgba(0, 0, 0, 0.5);
    text-align: center;
    width: 350px;
    border: 1px solid #0f3460;
}

```

```
h1 {
    font-size: 1.5rem;
    margin-bottom: 1.5rem;
    color: #4ecca3;
    text-transform: uppercase;
    letter-spacing: 1px;
}

.inner-container form {
    display: flex;
    flex-direction: column;
    gap: 15px;
    margin-bottom: 20px;
}

input {
    padding: 10px;
    border-radius: 5px;
    border: none;
    background: #0f3460;
    color: white;
    font-size: 1rem;
    outline: none;
    transition: 0.3s;
}

#submit-btn {
    width: 100%;
    padding: 12px;
    background-color: #4ecca3;
    color: #1a1a2e;
    border: none;
    border-radius: 5px;
    font-weight: bold;
    cursor: pointer;
    font-size: 1rem;
    transition: transform 0.2s, background-color 0.3s;
}

#submit-btn:hover {
    background-color: #45b291;
}

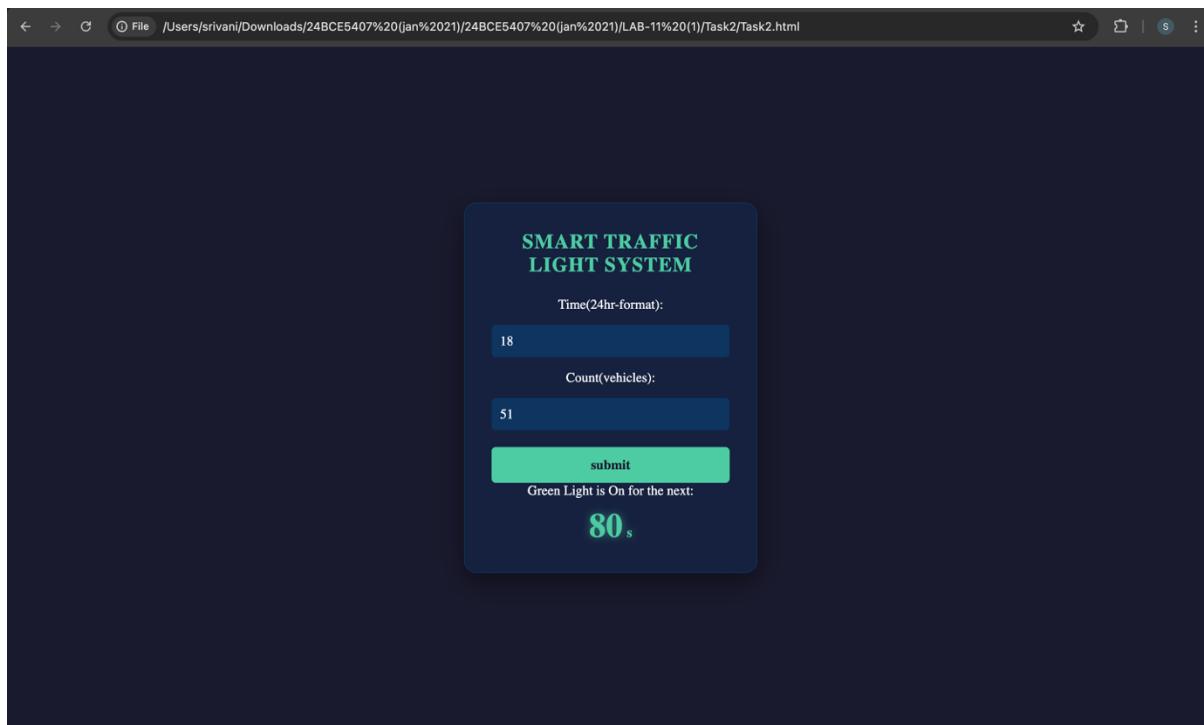
.output {
    margin-top: 20px;
    font-size: 1.1rem;
    color: #95a5a6;
```

```
}

#req {
    display: block;
    font-size: 2.5rem;
    font-weight: bold;
    color: #4ecca3;
    margin-top: 10px;
    text-shadow: 0 0 10px rgba(78, 204, 163, 0.5);
}

#req:not(:empty)::after {
    content: "s";
    font-size: 1rem;
    margin-left: 5px;
}
```

LAB 11 – TASK 2 – Screenshots:



LAB 11 - TASK3 – HTML:

```
<!DOCTYPE html>
<head>
    <title>Hotel Room Pricing System</title>
    <link rel="stylesheet" type="text/css" href="Task3.css"/>
</head>
<body>
    <div class="container">
        <h1>Hotel Room Pricing System</h1>
        <h3>Select the month:</h3>
        <form>
            <input type="radio" name = "month" value="january">January
            <input type="radio" name = "month" value="february">February
            <input type="radio" name = "month" value="march">March
            <br/>
            <input type="radio" name = "month" value="april">April
            <input type="radio" name = "month" value="may">May
            <input type="radio" name = "month" value="june">June
            <br/>
            <input type="radio" name = "month" value="july">July
            <input type="radio" name = "month" value="august">August
            <input type="radio" name = "month" value="september">September
            <br/>
            <input type="radio" name = "month" value="october">October
            <input type="radio" name = "month" value="november">November
            <input type="radio" name = "month" value="december">December
            <br>
        </form>
        <h3>Select the room type:</h3>
        <form>
            <input type="radio" name = "room" value="standard">Standard
            <input type="radio" name = "room" value="deluxe">Deluxe
            <input type="radio" name = "room" value="suite">Suite
        </form>
        <input value="submit" type="button" id="submit-btn" onclick="findPrice()"/>
        <p id="output"></p>
    </div>
    <script type="text/javaScript" src="Task3.js"></script>
</body>
```

LAB 11 – TASK 3 – JavaScript:

```
function findPrice() {
    const month = document.querySelector('input[name="month"]:checked')?.value;
    const room = document.querySelector('input[name="room"]:checked')?.value;
    const output = document.getElementById("output");
    if (!month || !room) {
        output.innerHTML = "Please select both a month and a room type.";
        return;
    }

    let price = 0;
    if (month === "june" || month === "july" || month === "august" || month ===
    "december") {

        if (room === "standard") {
            price = 5000;
        } else if (room === "deluxe") {
            price = 8000;
        } else {
            price = 12000;
        }

    }
    else {

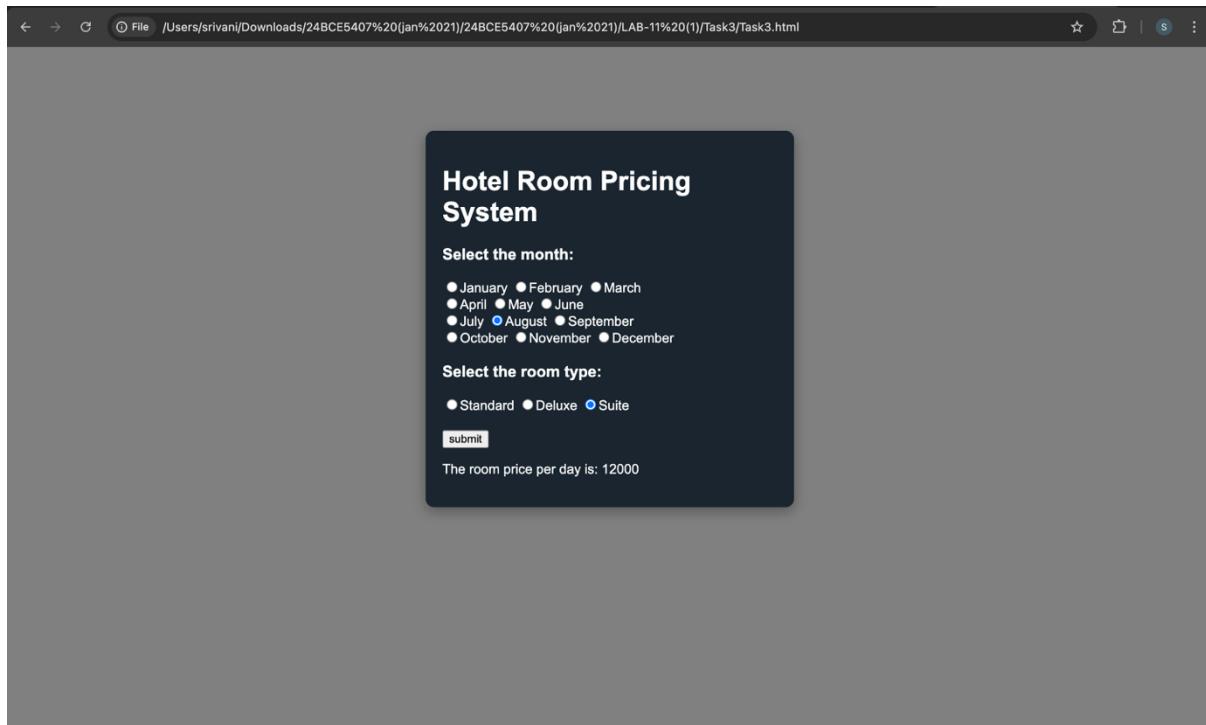
        if (room === "standard") {
            price = 3000;
        } else if (room === "deluxe") {
            price = 5000;
        } else {
            price = 8000;
        }

    }
    output.innerHTML = `The room price per day is: ${price}`;
}
```

LAB 11 – TASK 3 – CSS:

```
body{  
    background-color:gray;  
}  
.container{  
    background-color: #1a252f;  
    width: 400px;  
    padding: 20px;  
    border-radius: 10px;  
    box-shadow: 0 5px 15px rgba(0,0,0,0.3);  
    color: white;  
    font-family: Arial, sans-serif;  
    margin: 100px auto;  
}  
form{  
    margin-bottom: 20px;  
    text-align: left;  
}
```

LAB 11 – TASK 3 – Screenshots:



LAB 11 – TASK 4 – HTML:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Movie Ticket Calculator</title>
  <link rel="stylesheet" href="Task4.css">
</head>
<body>
  <div class="container">
    <h2>Movie Ticket Price</h2>
    <label for="age">Enter Age:</label>
    <input type="number" id="age" placeholder="e.g. 25">
    <label for="time">Show Time (24hr format):</label>
    <input type="number" id="time" placeholder="e.g. 14 for 2 PM" min="0" max="23">
    <button onclick="calculatePrice()">Calculate Price</button>
    <div id="result" class="result"></div>
  </div>
```

```
<script src="Task4.js"></script>
</body>
</html>
```

LAB 11 – TASK 4 – JavaScript:

```
function calculatePrice() {
    const age = parseInt(document.getElementById('age').value);
    const time = parseInt(document.getElementById('time').value);
    const resultDiv = document.getElementById('result');
    let price = 0;
    if (age < 12) {
        price = 100;
    } else if (age >= 60) {
        price = 120;
    } else {
        price = 200;
    }
    if (time < 17) {
        price = price * 0.5;
    }
    if (isNaN(age) || isNaN(time)) {
        resultDiv.innerText = "Please enter valid numbers.";
    } else {
        resultDiv.innerText = `Final Ticket Price: ₹${price}`;
    }
}
```

LAB 11 – TASK 4 – CSS:

```
body{
    font-family: Arial, sans-serif;
    display: flex;
    justify-content: center;
```

```
align-items: center;
height: 100vh;
background-color: #f4f4f9;
}

.container {
background: white;
padding: 2rem;
border-radius: 8px;
box-shadow: 0 4px 6px rgba(0,0,0,0.1);
width: 300px;
}

input, button {
width: 100%;
padding: 10px;
margin: 10px 0;
box-sizing: border-box;
}

button {
background-color: #007bff;
color: white;
border: none;
cursor: pointer;
}

.result {
margin-top: 15px;
font-weight: bold;
text-align: center;
color: #333;
}
```

LAB 11 – TASK 4 – Screenshots:

The screenshot shows a web browser window with the URL `/Users/srivani/Downloads/24BCE5407%20(jan%202021)/24BCE5407%20(jan%2021)/LAB-11%20(1)/Task4/Task4.html`. The page title is "Movie Ticket Price". It contains two input fields: "Enter Age:" with value "27" and "Show Time (24hr format):" with value "22". A blue button labeled "Calculate Price" is below them. At the bottom, the text "Final Ticket Price: ₹200" is displayed.

LAB 11 – TASK 5 – HTML:

```
<!DOCTYPE html>
<html>
  <head>
    <title>Number Pyramid Generator</title>
    <link rel="stylesheet" href="Task5.css">
  </head>
  <body>
    <div class="container">
      <div class="card">
        <h3>Number Pyramid Generator</h3>
        <input type="number" id="levels" placeholder="Enter n (e.g., 5)">
        <button onclick="generatePyramid()">Generate</button>
        <p id="pyramidResult"></p>
      </div>
    </div>
    <script type="text/javaScript" src="Task5.js"></script>
  </body>
</html>
```

LAB 11 – TASK 5 – JavaScript:

```
function generatePyramid() {
    const n = parseInt(document.getElementById('levels').value);
    let currentNumber = 1;
    let output = "";
    for (let i = 1; i <= n; i++) {
        for (let j = 1; j <= i; j++) {
            output += currentNumber + " ";
            currentNumber++;
        }
        output += "\n";
    }

    document.getElementById('pyramidResult').innerText = output;
}
```

LAB 11 – TASK 5 – CSS:

```
body { font-family: sans-serif; background-color: #f0f2f5; padding: 20px; }

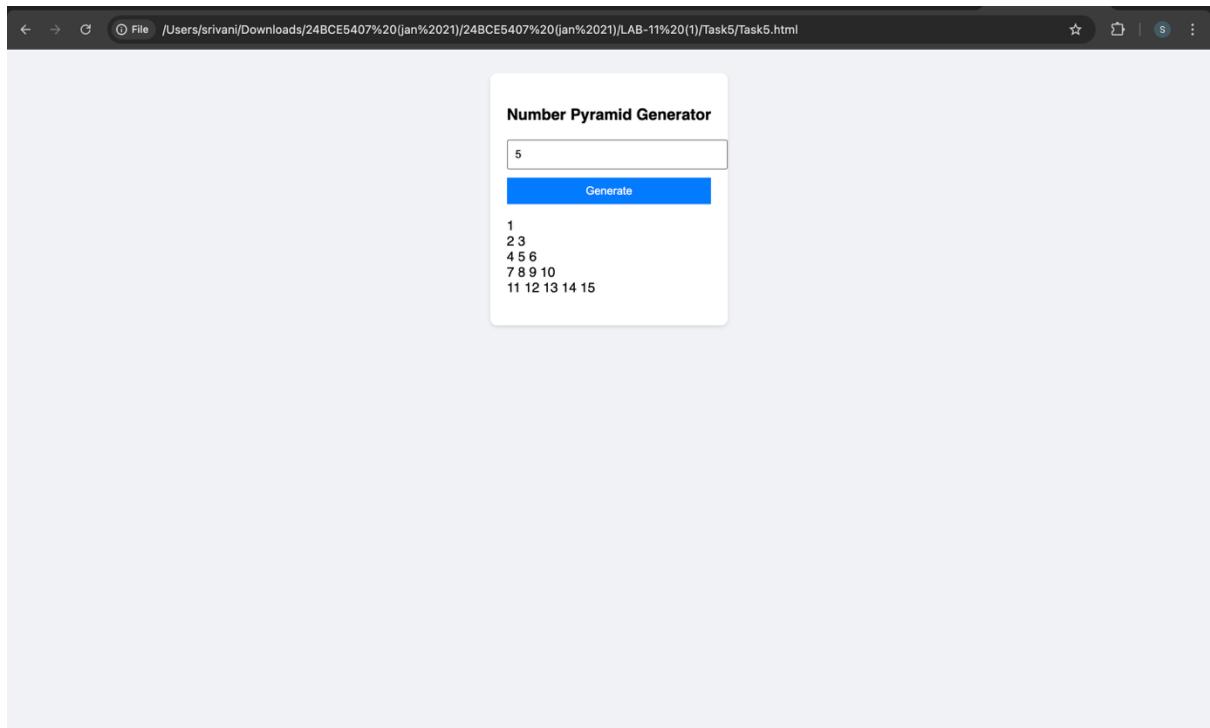
.card {
    background: white;
    padding: 20px;
    border-radius: 8px;
    box-shadow: 0 2px 4px rgba(0,0,0,0.1);
    max-width: 400px;
}

input, button {
    display: block;
    width: 100%;
    margin: 10px 0;
    padding: 8px;
}

button {
    background: #007bff;
```

```
color: white;  
border: none;  
cursor: pointer;  
  
}  
pre{  
background: #eee;  
padding: 10px;  
border-radius: 4px;  
}  
.container{  
display:flex;  
flex-direction: column;  
justify-content: center;  
align-items: center;  
}
```

LAB 11 – TASK 5 – Screenshots:



LAB 11 – TASK 6 – HTML:

```
<!DOCTYPE html>
<html>
<head>
    <title>Toll Tax System</title>
    <link rel="stylesheet" href="Task6.css">
</head>
<body>
    <div class="box">
        <h2>Toll System</h2>

        <div id="setupStep">
            <label>How many vehicles?</label>
            <input type="number" id="totalVehicles" value="1">
            <button onclick="startCollection()">Start</button>
        </div>

        <div id="inputStep" class="hidden">
            <p id="currentVehicleLabel">Vehicle 1 of 5</p>
            <label>Type:</label>
            <select id="vType">
                <option value="car">Car (₹50)</option>
                <option value="truck">Truck (₹100)</option>
                <option value="bike">Bike (₹30)</option>
            </select>
            <br><br>
            <label><input type="checkbox" id="isVIP"> VIP Pass?</label>
            <br><br>
            <button onclick="processNext()">Next Vehicle</button>
        </div>

        <pre id="resultDisplay"></pre>
    </div>
    <script src="Task6.js"></script>
</body>
</html>
```

LAB 11 - TASK 6 – JavaScript:

```
let currentCount = 1;
let maxVehicles = 0;
let totalTax = 0;
let log = "Log:\n";

function startCollection() {
    maxVehicles = parseInt(document.getElementById('totalVehicles').value);
    if (maxVehicles > 0) {
        document.getElementById('setupStep').classList.add('hidden');
        document.getElementById('inputStep').classList.remove('hidden');
        updateLabel();
    }
}

function updateLabel() {
    document.getElementById('currentVehicleLabel').innerText = "Vehicle " +
    currentCount + " of " + maxVehicles;
}

function processNext() {
    const type = document.getElementById('vType').value;
    const isVIP = document.getElementById('isVIP').checked;
    let fee = 0;

    if (!isVIP) {
        if (type === "car") fee = 50;
        else if (type === "truck") fee = 100;
        else if (type === "bike") fee = 30;
    }

    totalTax += fee;
    log += "Vehicle " + currentCount + " (" + type + "): ₽" + fee + (isVIP ? " [VIP]" : "") + "\n";

    if (currentCount < maxVehicles) {
        currentCount++;
        updateLabel();
        document.getElementById('isVIP').checked = false; // Reset checkbox for next
    } else {
        finishCollection();
    }
}
```

```
        }
    }

function finishCollection() {
    document.getElementById('inputStep').classList.add('hidden');
    log += "-----\nTotal Collected: ₹" + totalTax;
    document.getElementById('resultDisplay').innerText = log;
}
```

LAB 11 – TASK 6 – CSS:

```
body{
    font-family: sans-serif;
    display: flex;
    justify-content: center;
    padding-top: 50px;
    background-color: gray;
}

.box{
    background-color:rgb(210, 78, 100);
    padding: 25px;
    border-radius: 8px;
    width: 320px;
    text-align: center;
    box-shadow: 0 4px 6px rgba(0,0,0,0.1);
}

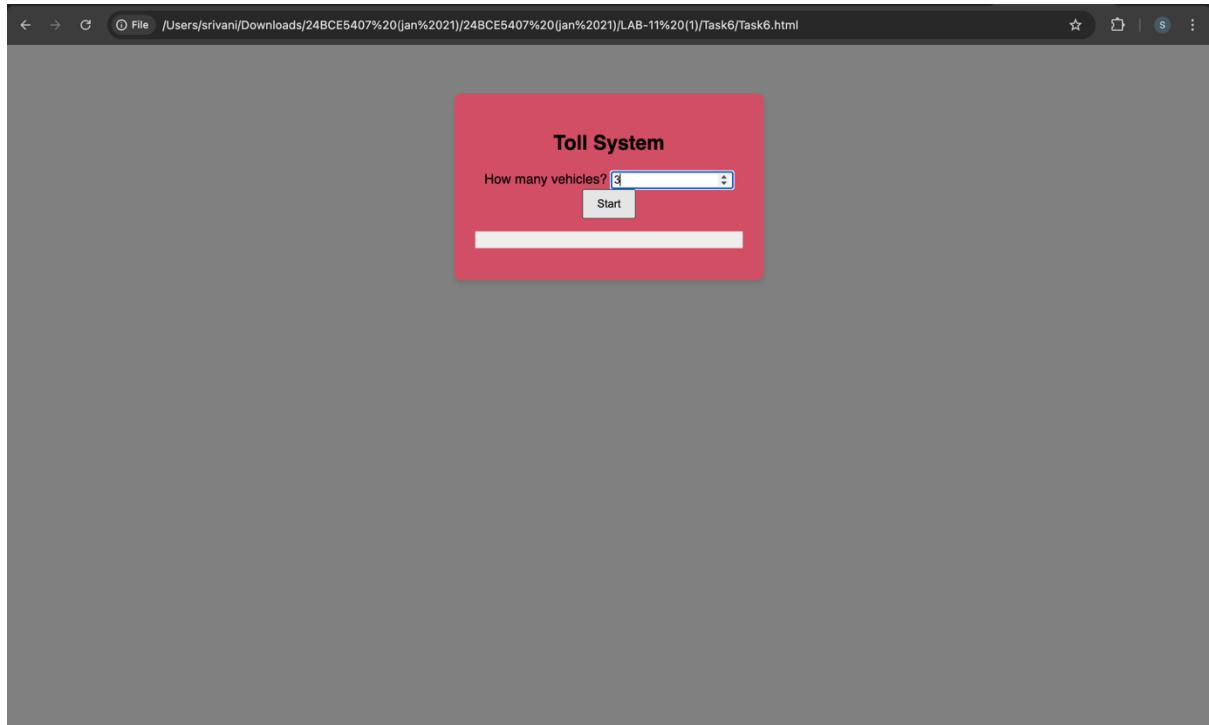
.hidden{ display: none; }

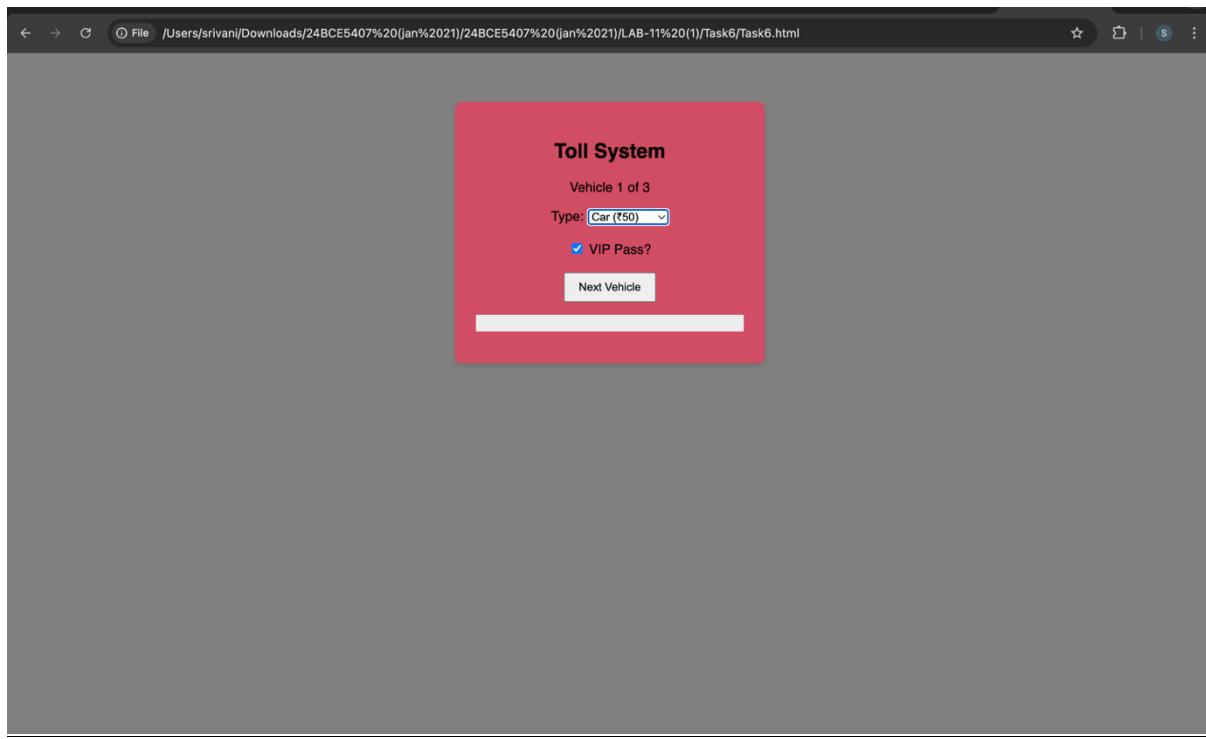
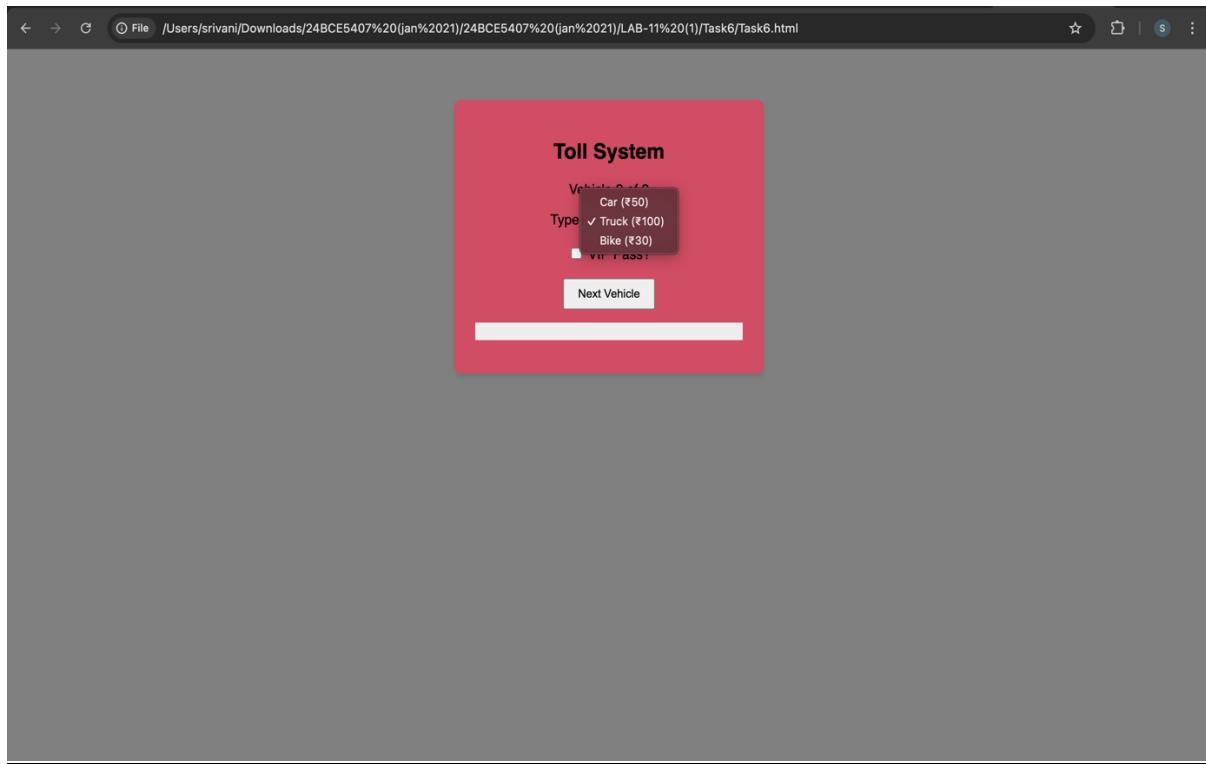
#resultDisplay{
    text-align: left;
    background: #eee;
    padding: 10px;
    margin-top: 15px;
    white-space: pre-wrap;
}

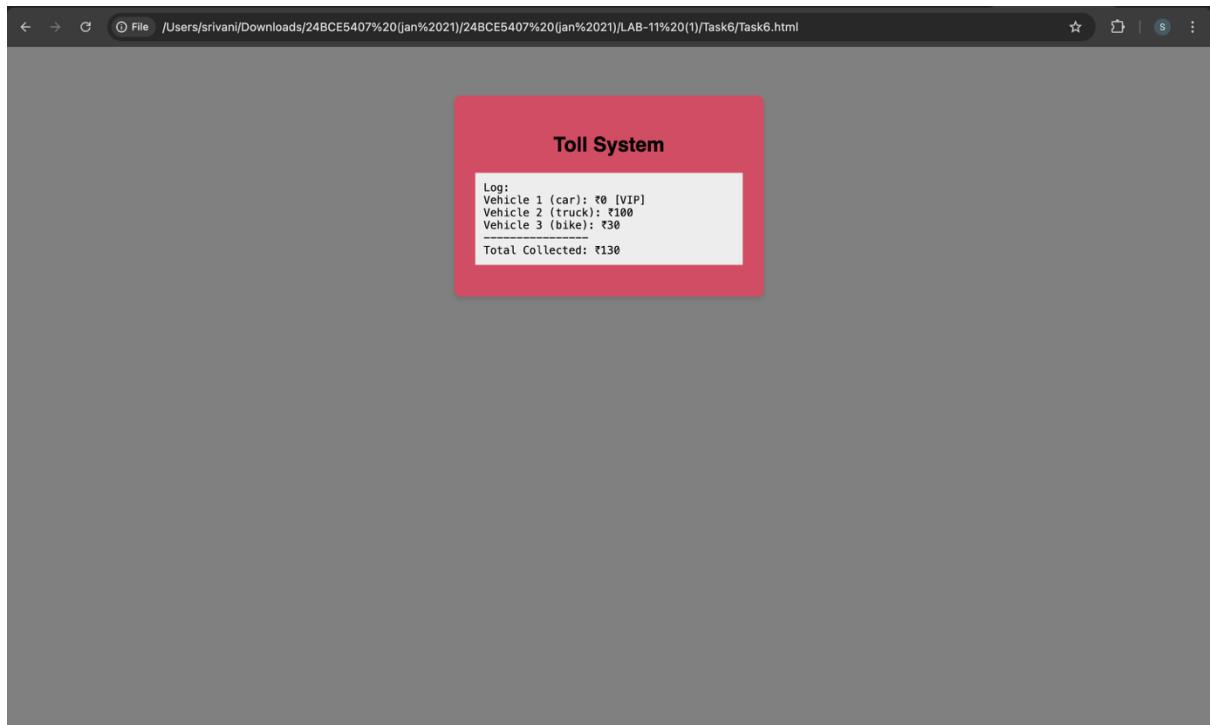
button{
    padding: 8px 16px;
```

```
cursor: pointer;  
}
```

LAB 11 – TASK 6 – Screenshots:







LAB 11 – TASK 7 – HTML:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Smart Hospital Emergency System</title>
  <link rel="stylesheet" href="Task7.css">
</head>
<body>
  <div class="container">
    <h2>Smart Emergency Terminal</h2>

    <div id="setupStep">
      <label>Number of Patients to Process:</label>
      <input type="number" id="patientTotal" value="1" min="1">
      <button class="btn btn-primary" onclick="initializeSystem()">Initialize
      System</button>
    </div>
```

```

<div id="inputStep" class="hidden">
    <div class="badge" id="patientCounter">Patient 1 of N</div>

    <div class="form-grid">
        <input type="number" id="age" placeholder="Age">
        <input type="number" id="temp" placeholder="Temp (°C)" step="0.1">
        <input type="number" id="heartRate" placeholder="Heart Rate (BPM)">
        <input type="number" id="oxygen" placeholder="Oxygen Level (%)">

        <select id="injuryType">
            <option value="accident">Accident</option>
            <option value="burn">Burn</option>
            <option value="fracture">Fracture</option>
            <option value="fever">Fever</option>
            <option value="other">Other</option>
        </select>

        <select id="consciousness">
            <option value="conscious">Conscious</option>
            <option value="unconscious">Unconscious</option>
        </select>
    </div>

    <button class="btn btn-success" onclick="processPatient()">Classify & Next</button>
</div>

<div id="reportStep" class="hidden">
    <pre id="resultDisplay"></pre>
    <div id="emergencyAlert" class="alert hidden">EMERGENCY ALERT: Critical Threshold Exceeded!</div>
    <button class="btn btn-gray" onclick="location.reload()">New Session</button>
</div>
</div>
<script src="Task7.js"></script>
</body>
</html>

```

LAB 11 – TASK 7 – JavaScript:

```

let currentPatient = 1;
let totalToProcess = 0;

```

```
let criticalCount = 0;
let report = "--- HOSPITAL EMERGENCY REPORT ---\n\n";

function initializeSystem() {
    totalToProcess = parseInt(document.getElementById('patientTotal').value);
    if (totalToProcess > 0) {
        document.getElementById('setupStep').classList.add('hidden');
        document.getElementById('inputStep').classList.remove('hidden');
        updateCounter();
    }
}

function updateCounter() {
    document.getElementById('patientCounter').innerText = "PATIENT " + currentPatient +
" OF " + totalToProcess;
}

function processPatient() {
    const age = parseInt(document.getElementById('age').value);
    const oxygen = parseInt(document.getElementById('oxygen').value);
    const conscious = document.getElementById('consciousness').value;
    const injury = document.getElementById('injuryType').value;

    let priority = "Low";
    let dept = "General Medicine";
    let wait = "2 Hours";

    if (oxygen < 90 || conscious === "unconscious") {
        priority = "Critical";
        dept = "ICU";
        wait = "Immediate";
        criticalCount++;
    } else if (injury === "accident" || injury === "burn") {
        priority = "High";
        dept = "Emergency Trauma";
        wait = "15 Mins";
    } else if (injury === "fracture") {
        priority = "Moderate";
        dept = "Orthopedics";
        wait = "45 Mins";
    }

    if ((age > 65 || age < 5) && priority !== "Critical") {
        priority = "High (Upgraded)";
        wait = "10 Mins";
    }
}
```

```

report += ` Patient ${currentPatient}: [${priority}] -> ${dept} (Wait: ${wait})\n`;

if (currentPatient < totalToProcess) {
    currentPatient++;
    updateCounter();
    clearForm();
} else{
    showFinalReport();
}
}

function clearForm(){
    document.getElementById('age').value = "";
    document.getElementById('oxygen').value = "";
}

function showFinalReport(){
    document.getElementById('inputStep').classList.add('hidden');
    document.getElementById('reportStep').classList.remove('hidden');

    let criticalPercent = (criticalCount / totalToProcess) * 100;
    report += `\nStatistics: ${criticalPercent.toFixed(1)}% Critical cases.`;

    document.getElementById('resultDisplay').innerText = report;

    if (criticalPercent >= 30){
        document.getElementById('emergencyAlert').classList.remove('hidden');
    }
}

```

LAB 11 – TASK 7 – CSS:

```

body{
    background-color: #f5f5dc;
    font-family: 'Segoe UI', sans-serif;
    display: flex;
    justify-content: center;
    padding-top: 40px;
}

.container {

```

```
background: white;
width: 450px;
padding: 30px;
border-radius: 12px;
box-shadow: 0 10px 30px rgba(0,0,0,0.1);
text-align: center;
}

.form-grid {
  display: grid;
  grid-template-columns: 1fr 1fr;
  gap: 15px;
  margin: 20px 0;
}

input, select{
  padding: 10px;
  border: 2px solid #e0e0e0;
  border-radius: 6px;
}

.btn {
  width: 100%;
  padding: 12px;
  border: none;
  border-radius: 6px;
  font-weight: bold;
  cursor: pointer;
  margin-top: 10px;
}

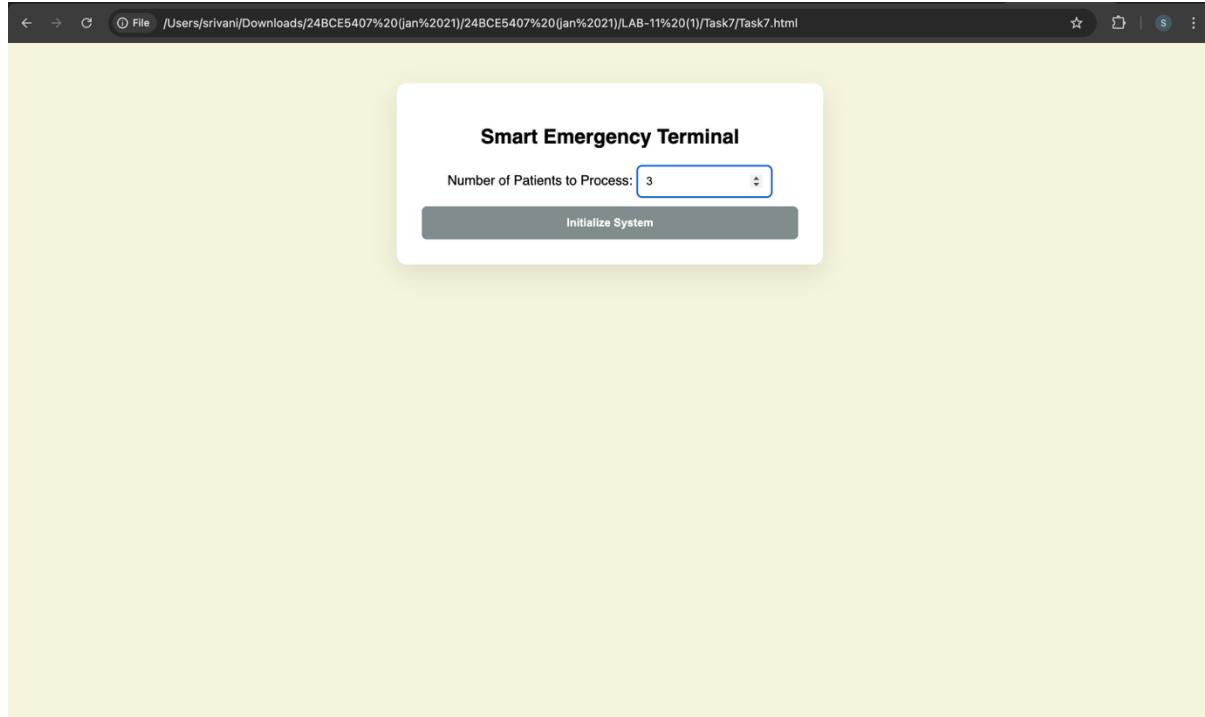
.btn-primary { background: #7f8c8d; color: white; }
.btn-success { background: #2d5a27; color: white; }
.btn-gray { background: #bdc3c7; color: #333; }

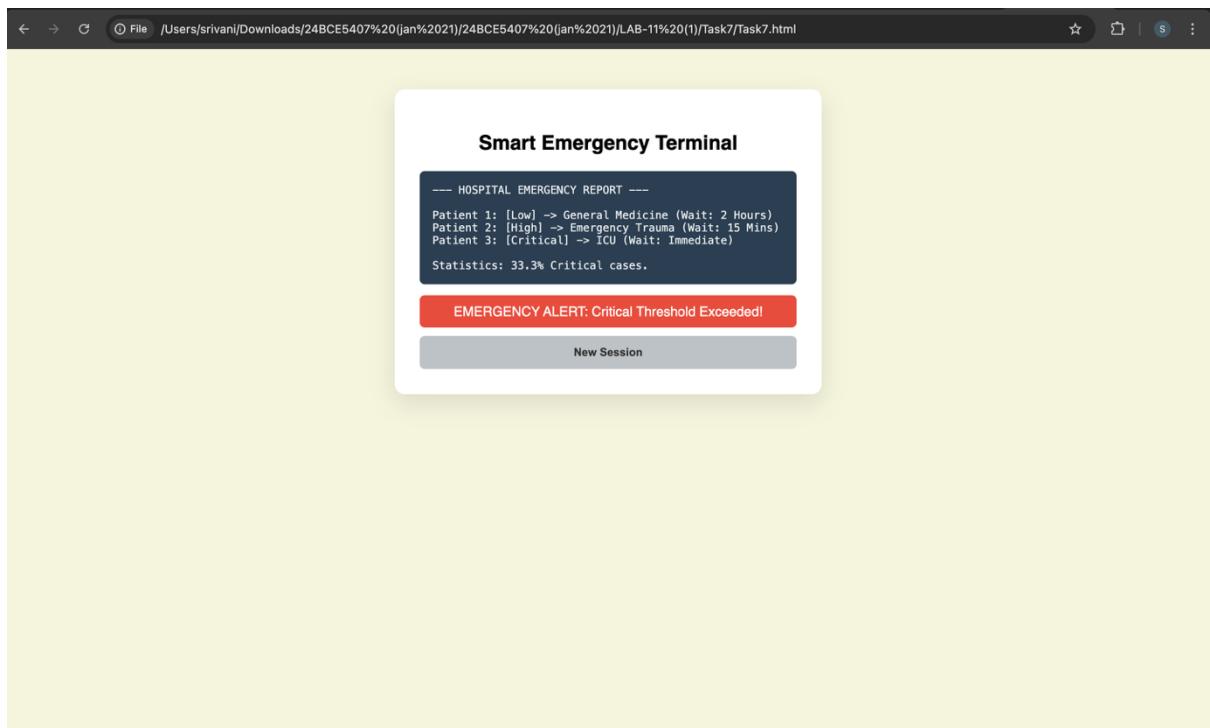
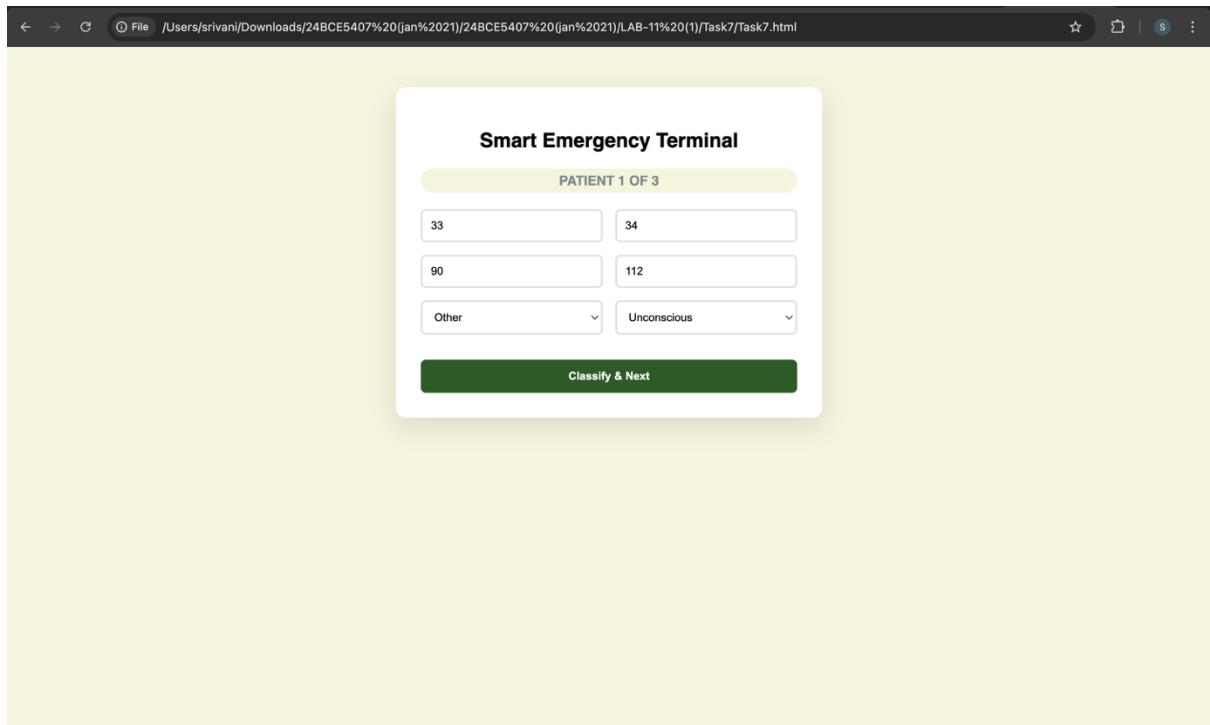
.badge {
  background: #f5f5dc;
  color: #7f8c8d;
  padding: 5px 15px;
  border-radius: 20px;
  font-weight: bold;
}

#resultDisplay{
  text-align: left;
  background: #2c3e50;
  color: #ecf0f1;
```

```
padding: 15px;  
border-radius: 6px;  
white-space: pre-wrap;  
}  
  
.alert{  
background: #e74c3c;  
color: white;  
padding: 10px;  
margin-top: 10px;  
border-radius: 6px;  
animation: blink 1s infinite;  
}  
  
.hidden{  
display: none;  
}
```

LAB 11 – TASK 7 – Screenshots:





THE END