

Cloud based enterprise systems lab (15B28CI581)

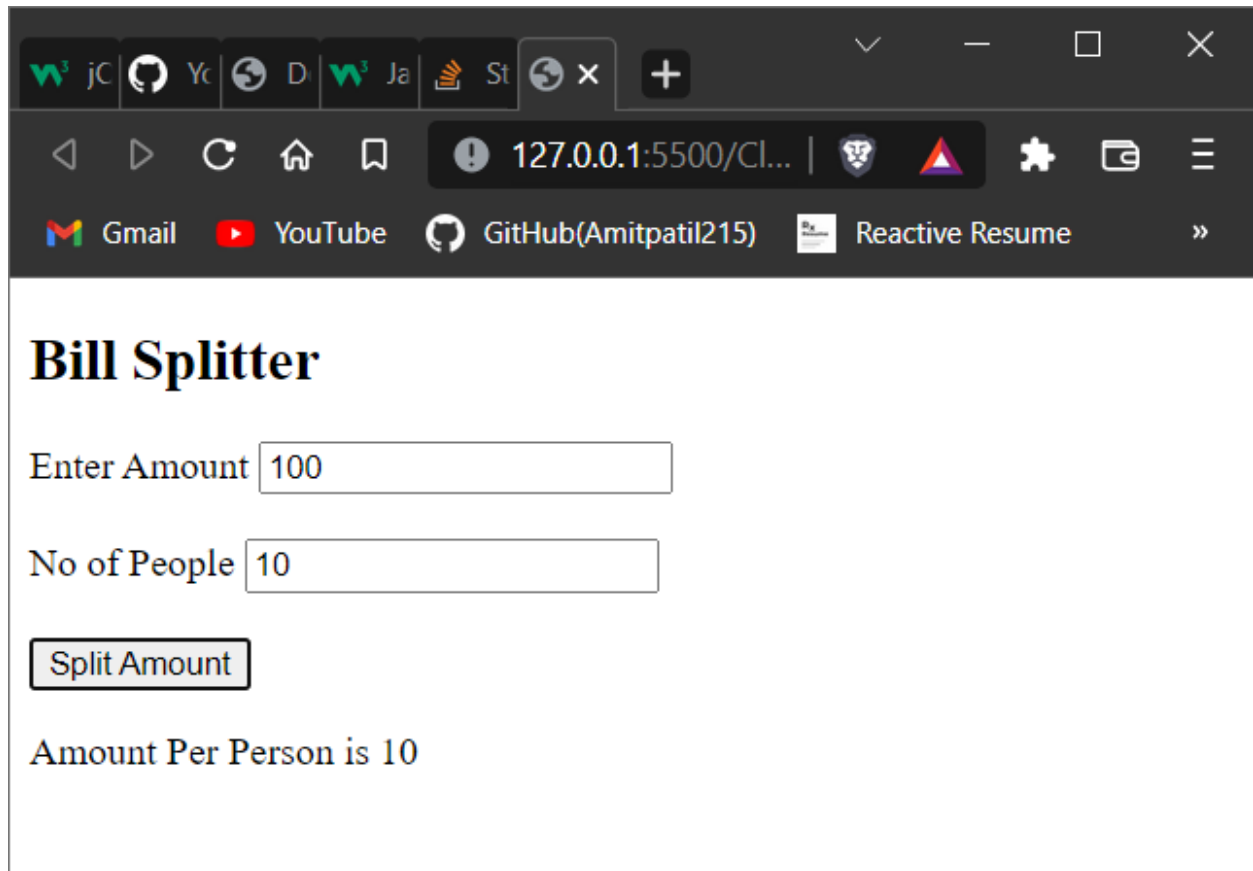
Assignment week 6

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QB11

Q1. Write a bill splitter Application using Javascript. Input will be the bill amount and number of people and output is bill per person.



Bill Splitter

Enter Amount

No of People

Amount Per Person is 10

HTML FILE

```
<!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>Document</title>
```

```

</head>

<body>
  <h2>Bill Splitter</h2>
  <script src="q1.js">

  </script>
  <label for="input1">Enter Amount</label>
  <input type="text" id="amount"></input>
  <br><br>
  <label for="input2">No of People</label>
  <input type="text" id="peoples"></input>
  <br><br>
  <button type="button" onclick="splitAmount()">Split Amount</button>
</body>

</html>

```

JS FILE

```

function splitAmount() {
  var amount = document.getElementById("amount").value;
  var peoples = document.getElementById("peoples").value;
  let perPersonAmt=amount/peoples;
  const para = document.createElement("p");
  para.innerText = "Amount Per Person is " + perPersonAmt;
  para.id="result"
  document.body.appendChild(para);
}

```

2. Create a web page and write a program in java script to shows the result of student attendance on weekly basis for CBE subject. A total of 7 classes can be conducted in a week. The document should contain a form with radio buttons that allows teacher to select status of absence or presence for 10 students of a class. The page also allows to select date and time for which attendance is to be marked. On submitting attendance for a particular day it should prompt a message for successful entry. The program should display the output as

List students name with their attendance %

List the students count with attendance <=80%, <=70%,<=60%,<=50%

HTML FILE

CBE Attendance

Pick Date And Time

- student1 ☐
- student2 ☐
- student3 ☒
- student4 ☐
- student5 ☒
- student6 ☐
- student7 ☒

- student1 0%
- student2 0%
- student3 10%
- student4 0%
- student5 10%
- student6 0%
- student7 10%

HTML File

```
<!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>Document</title>
  <script src="logic.js"></script>
</head>

<body>
  <h1>CBE Attendance</h1>
  <label for="time">Pick Date And Time</label>
  <input type="datetime-local"></input>
  <br><br>
  <button type="button" onclick="makeList()">Proceed</button>
  <div id="slist"></div>
  <div id="resultDiv"></div>

</body>
</body>

</html>

```

JS FILE

```

let studentList = [];
function onAttendanceSaved() {

  let count = 0;
  for (let i = 0; i < studentList.length; i++) {
    let each = studentList[i];
    let percent = (each.totalSet / 10) * 100;
    each.percent = percent;
  }
  renderResultOnScreen();
}

function renderResultOnScreen() {
  let ul = document.createElement('ul')
  document.getElementById('resultDiv').appendChild(ul)
}

```

```

studentList.forEach(function (items) {
    let li = document.createElement('li')

    li.innerHTML += items.name + " " + items.percent+ "%";

    ul.appendChild(li);
})
}
function student(name) {
    return { 'name': name, 1: 0, 2: 0, 3: 0, 4: 0, 5: 0, 6: 0, 7: 0,
'totalSet': 0, 'percent': 0 }
}
function makeList() {

    for (let i = 0; i < 7; i++) {
        studentList.push(student('student' + (i + 1)))
    }
    let ul = document.createElement('ul')
    ul.id = "innsersl"
    document.getElementById('slist').appendChild(ul)
    studentList.forEach(function (items) {
        let li = document.createElement('li')
        var radiobox = document.createElement('input');
        radiobox.type = 'radio';
        radiobox.id = '${Object.keys(items)[1]}';
        radiobox.value = 0;
        radiobox.onclick = function fun(a) {

            items["${radiobox.id}"] = !items["${radiobox.id}"];
            radiobox.checked = items["${radiobox.id}"];
            //if item is checked increase the count
            if (items["${radiobox.id}"]) {
                items['totalSet']++;
            } else {
                items['totalSet']--;
            }
        }
        li.innerHTML += items.name;
        li.appendChild(radiobox);
        ul.appendChild(li);
    }
}

```

```

    })

    let button = document.createElement('button')
    button.innerHTML = "Submit Attendance"
    button.id = "subAtt"
    button.onclick = function fun() {
        onAttendanceSaved()
    }
    document.getElementById('slist').appendChild(button)
}

```

3. Create a webpage and write a program in javascript to show the reservation system of NZM special train.

Assume a total of 5 different routes (each route contains ten different trains with capacities each of eight

seats). The document should contain a form with radio buttons that allow users to select the route and then

a drop-down box for train selection. The page also allows selecting the date and time for which reservation

has to be booked. The customer name should consist of only letters or the blank space character. Generate

an alert message if the name is incorrect. Use a regular expression to validate that the Email consists

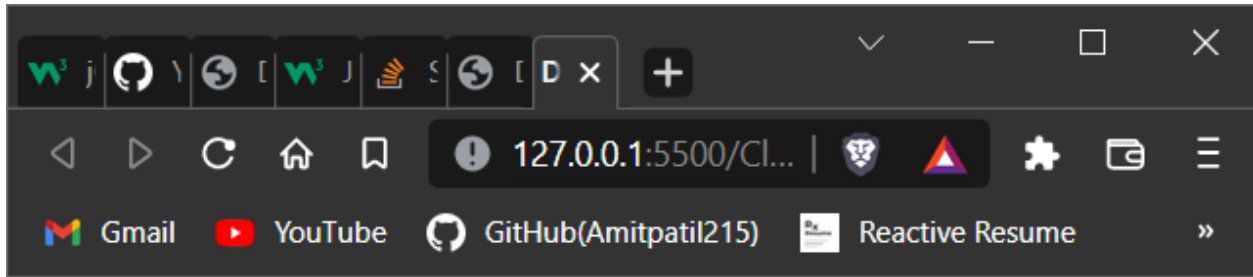
aa@bb.cc where aa, bb, and cc are one or more alphanumeric characters. Write the JavaScript code that

uses a regular expression to validate that the optional Telephone field is in the pattern ddd-ddd-dddd or

ddd-dddd where d is any digit. On reservation for a particular train, it should prompt a message for

successful entry otherwise unavailability. The program should display the output as

- total number of reservation by system.
- Reservation per train.
- Reservation per route.



Train Booking

Enter Email Address

HTML

```
<!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>Document</title>
  <script src="logic.js"></script>
</head>

<body>
  <h1>Train Booking</h1>
  <label for="email">Enter Email Address</label>
  <input type="text" id="email"></input>
  <br><br>
  <button id="sbutton" onclick="onFormSubmission()">Book Now</button>
</body>

</html>
```

JS FILE(Regex Implementation)

```
function validateEmail() {  
    let email = document.getElementById('email').value  
    const regex = new RegExp("\\w@[a-z].[a-z]");  
  
    isMatched = email.match(regex);  
    if (isMatched) {  
  
        console.log(true);  
    }  
}  
  
function onFormSubmission() {  
  
    validateEmail()  
}
```