**HTML**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<meta http-equiv="X-UA-Compatible" content="ie=edge">

<link rel="stylesheet" href="style.css">

<title>Employee Allocation</title>

</head>

<body>

<div class="container">

<p>By submiting the form, it will display if the employee is allocated in any roster on the date & time informed.</p>

<label>Employee Id: </label><input id="employeeId">

<label>Start Time:</label><input id="startTime">

<label>End Time:</label><input id="endTime">

<button id="submit">Submit</button>

</div>

<div class="data">

<p1>Existent Data</p1>

<p2><br>

Roster: 1 <br>

Employee Id: 1 <br>

Start Date: 1508450400 <br>

End Date: 1508450700 <br><br>

Roster: 2 <br>

Employee Id: 2 <br>

Start Date: 1508479300 <br>

End Date: 1508479400 <br><br>

</p2>

</div>

<script src="script.js"></script>

</body>

</html>

**JAVASCRIPT**

var objRoster1 = {

  id: 1,

  employee: 1,

  departament: 1,

  starttime: 1508450400,

  endtime: 1508450700

};

var objRoster2 = {

  id: 1,

  employee: 2,

  departament: 1,

  starttime: 1508479300,

  endtime: 1508479400

};

var submit = document.getElementById("submit");

submit.addEventListener("click", function () {

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

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

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

  function checkRoster1() {

    return objRoster1.employee == employeeId &&

      objRoster1.starttime >= startTime &&

      objRoster1.starttime <= endTime ||

      objRoster1.employee == employeeId &&

      startTime >= objRoster1.starttime &&

      startTime <= objRoster1.endtime

  };

  function checkRoster2() {

    return objRoster2.employee == employeeId &&

      objRoster2.starttime >= startTime &&

      objRoster2.starttime <= endTime ||

      objRoster2.employee == employeeId &&

      startTime >= objRoster2.starttime &&

      startTime <= objRoster2.endtime

  }

  if (employeeId == "" || startTime == "" || endTime == "") {

    alert("Please, fill all the fields.");

  } else if (*Object*.keys(objRoster1).some(checkRoster1)) {

    alert("Employee is already allocated for this date and time on Roaster 1.");

  } else if (*Object*.keys(objRoster2).some(checkRoster2)) {

    alert("Employee is already allocated for this date and time on Roaster 2.");

  } else {

    alert ("Employee is available for this date & time");

  }

});

**CSS**

html{

height: 100%;

width: 100%;

}

body{

width: 100%;

height: 100%;

background-color: grey;

display: flex;

flex-direction: row;

align-items: center;

justify-content: center;

margin: 0px;

}

.container {

width: 400px;

height: 370px;

display: flex;

padding: 0px;

flex-direction: column;

justify-content: center;

align-items: center;

background-color: lightgrey;

border: none;

border-radius: 5px;

box-shadow: 2px 2px rgb(32, 30, 30);

}

.container p {

width: 350px;

}

.container label {

width: 350px;

margin-top: 10px;

}

.container select {

width: 355px;

height: 35px;

margin: 5px;

}

.container input {

width: 350px;

height: 30px;

margin-bottom: 5px;

border-radius: 5px;

}

.container button {

width: 355px;

height: 40px;

margin: 10px;

border-radius: 5px;

}

.data {

width: 190px;

height: 200px;

display: flex;

margin-left: 60px;

padding: 0px;

flex-direction: column;

padding: 10px;

background-color: rgb(234, 241, 128);

border: none;

border-radius: 5px;

box-shadow: 2px 2px rgb(32, 32, 30);

}

.data p1 {

font-weight: bold;

}