DOM JavaScript Assignment

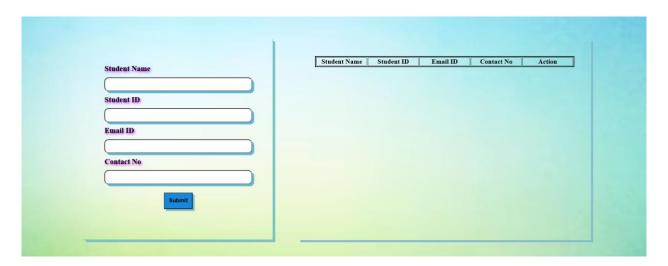# Assignment: Student Enrollment System

Title: - Student Enrollment System.

Description: - It is a "Student Enrollment System" which provides the entire process of student registration, from initial application submission to final enrollment, including features like student name, student ID, email ID and Contact Number. Here we can Reset and Delete the Records of students.
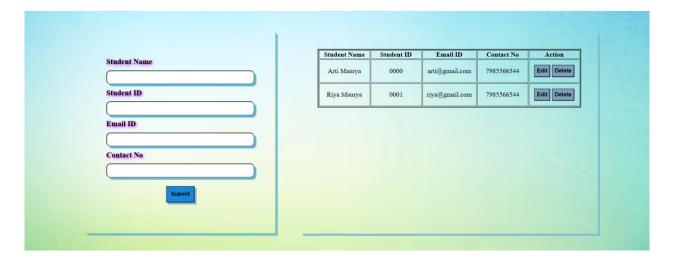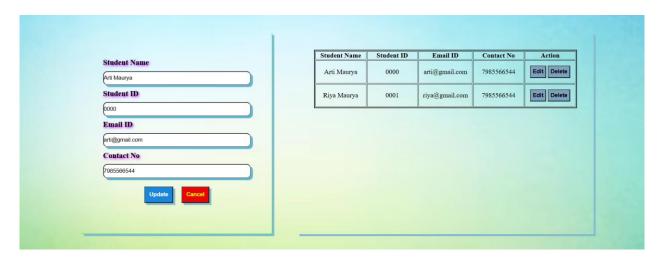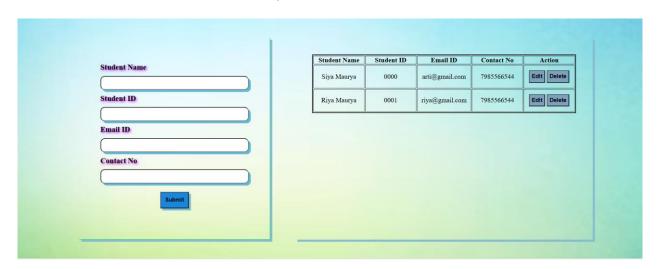
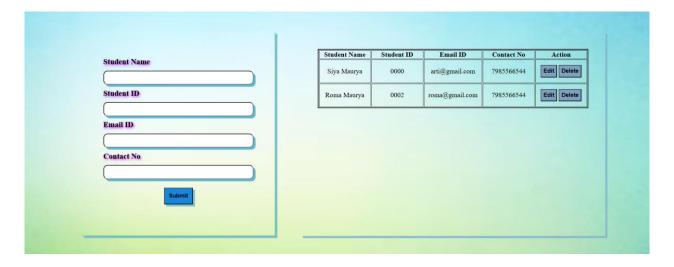## Header Section

Main Section

Add Student Details

On Edit Button Click

Student Name

Arti Maurya

Student ID

0000

Email ID

arti@gmail.com

Contact No

7985566544

Update Cancel

Student Name	Student ID	Email ID	Contact No	Action
Arti Maurya	0000	arti@gmail.com	7985566544	Edit Delete
Riya Maurya	0001	riya@gmail.com	7985566544	Edit Delete

On Update Button Click

Student Name

Student ID

Email ID

Contact No

Submit

Student Name	Student ID	Email ID	Contact No	Action
Siya Maurya	0000	arti@gmail.com	7985566544	Edit Delete
Riya Maurya	0001	riya@gmail.com	7985566544	Edit Delete

On Delete Button Click

Student Name

Student ID

Email ID

Contact No

Submit

Student Name	Student ID	Email ID	Contact No	Action
Siya Maurya	0000	arti@gmail.com	7985566544	Edit Delete
Roma Maurya	0002	roma@gmail.com	7985566544	Edit Delete

Codes Section

Index.html

```html
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <meta name="provider" content="Internshala">
    <meta name="keywords" content="Student Enrollment">
    <meta name="description" content="Student Enrollment System">
    <title>Student Enrollment System</title>
    <link rel="stylesheet" href="style.css" />
    <script src="index.js" defer></script>
  </head>
  <body  onload="myFunction()">
    <div class="container">
      <header class="header-section">
        <h1 class="heading">Student Enrollment System</h1>
        <p class="paragraph">
          It is a "Student Enrollment System" which provide the entire process
          of student registration, from initial application submission to final
          enrollment, including features like student name, student ID, email ID
          and Contact Number. Here we can Reset and Delete the Records of
          students.
        </p>
      </header>
      <main class="main-section">
        <form class="studentForm" onsubmit="return false">
          <div class="registration-section">
            <label for="std_name" class="nameLabel label">Student Name</label>
            <input
              type="text"
              id="std_name"
              class="nameInput input"
              name="std_name"
            />
            <label for="std_ID" class="IdLabel label">Student ID</label>
```

```html
<html lang="en">
  <body  onload="myFunction()">
    <div class="container">
      <main class="main-section">
        <form class="studentForm" onsubmit="return false">
            <label for="std_ID" class="IdLabel label">Student ID</label>
            <input
              type="text"
              id="std_ID"
              class="IdInput input"
              name="std_ID"
            />
            <label for="std_email" class="emailLabel label">Email ID</label>
            <input
              type="email"
              id="std_email"
              class="emailInput input"
              name="std_email"
            />
            <label for="std_contact" class="contactLabel label"
              >Contact No</label
            >
            <input
              type="tel"
              id="std_contact"
              class="contactInput input"
              name="std_contact"
            />
            <div class="buttons">
              <input
                type="submit"
                id="addButton"
                class="submitButton"
                onclick="addData()"
              />
```

```html
 2     <html lang="en">
13       <body  onload="myFunction()">
14         <div class="container">
25           <main class="main-section">
26             <form class="studentForm" onsubmit="return false">
64                 />
65                 <input
66                   type="button"
67                   id="updateButton"
68                   value="Update"
69                   class="updateButton"
70                   onclick="UpdateStudent()"
71                   style="display: none;"
72                 />
73                 <input
74                   type="button"
75                   id="cancelButton"
76                   value="Cancel"
77                   class="CancelButton"
78                   onclick="Cancel()"
79                   style="display: none;"
80                 />
81               </div>
82             </div>
83             <div class="display-section">
84               <table class="studentTable" id="std_table" border="2">
85                 <thead>
86                   <tr>
87                     <th>Student Name</th>
88                     <th>Student ID</th>
89                     <th>Email ID</th>
90                     <th>Contact No</th>
91                     <th>Action</th>
92                   </tr>
93                 </thead>
```

```html
 2     <html lang="en">
13       <body  onload="myFunction()">
14         <div class="container">
25           <main class="main-section">
26             <form class="studentForm" onsubmit="return false">
80                 />
81               </div>
82             </div>
83             <div class="display-section">
84               <table class="studentTable" id="std_table" border="2">
85                 <thead>
86                   <tr>
87                     <th>Student Name</th>
88                     <th>Student ID</th>
89                     <th>Email ID</th>
90                     <th>Contact No</th>
91                     <th>Action</th>
92                   </tr>
93                 </thead>
94                 <tbody id="tbody"></tbody>
95               </table>
96             </div>
97           </form>
98         </main>
99       </div>
100     </body>
101   </html>
102
```

Style.css

```css
*{
    margin: 0;
    padding: 0;
}
.container{
    display: flex;
    flex-direction: column;
    background-image: url("images/background1_image.jpg");
    background-repeat: no-repeat;
    background-size: cover;
    height: 100vh;
}
.header-section{
    display: flex;
    flex-direction: column;
}
.heading{
    text-align: center;
    text-shadow: 2px 2px 5px rgb(13, 0, 255);
    padding-top: 20px;
    padding-bottom: 20px;
    font-family:'Gill Sans', 'Gill Sans MT', Calibri, 'Trebuchet MS', sans-serif;
}
.paragraph{
    padding: 20px 100px 20px 100px;
    text-shadow: 2px 2px 5px rgb(0, 255, 128);
    font-weight: 400;
    font-family:Cambria, Cochin, Georgia, Times, 'Times New Roman', serif;
    color: rgb(38, 30, 34);
}
.studentForm{
    margin-top: 50px;
    display: flex;
    justify-content: center;
}
```

```css
.studentForm{
    margin-top: 50px;
    display: flex;
    justify-content: center;
}
.registration-section{
    display: flex;
    flex-direction: column;
    margin: 10px;
    border-bottom: 1px solid rgb(6, 200, 103);
    border-right: 1px solid rgb(6, 200, 103);
    padding: 50px;
    box-shadow: 5px 5px rgb(134, 190, 209);
}
.label{
    font-weight: bold;
    font-size: large;
    display: block;
    margin-top: 10px;
    text-shadow: 2px 2px 5px rgb(212, 0, 255);
}
.input{
    display: block;
    width: 350px;
    height: 30px;
    border-radius: 10px;
    margin-top: 10px;
    box-shadow: 5px 5px rgb(99, 186, 215);
}
.buttons{
    margin-top: 20px;
    display: flex;
    justify-content: center;
    align-items: center;
    gap: 20px;
}
```

```
65  }
66  .submitButton{
67      background-color: ■rgb(25, 136, 220);
68      padding: 10px;
69      cursor: pointer;
70      font-weight: bold;
71      box-shadow: 5px 5px ■rgb(134, 190, 209);
72  }
73  .submitButton:hover{
74      background-color: transparent;
75      border: 2px solid ■blue;
76  }
77  .submitButton:active{
78      background-color: ■lightblue;
79      border: 2px solid ■rgb(208, 0, 255);
80  }
81  .updateButton{
82      background-color: ■rgb(25, 136, 220);
83      padding: 10px;
84      cursor: pointer;
85      box-shadow: 5px 5px ■rgb(134, 190, 209);
86      font-weight: bold;
87      color: ■white;
88  }
89  .updateButton:hover{
90      background-color: transparent;
91      border: 2px solid ■blue;
92      color: ☐black;
93  }
94  .updateButton:active{
95      background-color: ■lightblue;
96      border: 2px solid ■rgb(208, 0, 255);
97  }
```

INTERNSHALA DOM ASSIGN...
> images
<> index.html
JS index.js
style.css

```css
97    }
98    .CancelButton{
99        background-color: rgb(233, 6, 6);
100       cursor: pointer;
101       box-shadow: 5px 5px rgb(134, 190, 209);
102       color: yellow;
103       padding: 10px;
104       font-weight: bold;
105   }
106   .CancelButton:hover{
107       background-color: transparent;
108       border: 2px solid blue;
109       color: red;
110   }
111   .CancelButton:active{
112       background-color: lightblue;
113       border: 2px solid rgb(208, 0, 255);
114   }
115   .display-section{
116       margin: 10px;
117       margin-left: 50px;
118       padding: 40px;
119       display: flex;
120       flex-direction: column;
121       box-shadow: 5px 5px rgb(134, 190, 209);
122       overflow-y: auto;
123       height: 400px;
124   }
125   .studentTable{
126       border: 2px solid black;
127   }
128   th{
129       width: 120px;
130   }
```

```css
130    }
131    td{
132        text-align: center;
133        padding: 10px;
134    }
135    .editButton{
136        margin: 2px;
137        padding: 5px;
138        background-color: rgb(124, 162, 192);
139        cursor: pointer;
140        font-weight: bold;
141    }
142    .deleteButton{
143        margin: 2px;
144        padding: 5px;
145        background-color: rgb(124, 162, 192);
146        cursor: pointer;
147        font-weight: bold;
148    }
149    .editButton:hover{
150        background-color: transparent;
151        border: 2px solid blue;
152    }
153    .editButton:active{
154        background-color: lightblue;
155        border: 2px solid rgb(208, 0, 255);
156    }
157    .deleteButton:hover{
158        background-color: transparent;
159        border: 2px solid blue;
160    }
161    .deleteButton:active{
162        background-color: lightblue;
163        border: 2px solid rgb(208, 0, 255);
164    }
```

```css
166    @media screen and (min-width:250px) and (max-width:480px){
167        .container{
168            display: flex;
169            flex-direction: column;
170            align-items: center;
171            background-image: url("images/background1_image.jpg");
172            background-repeat: no-repeat;
173            background-size: cover;
174            height: 100%;
175            width: 100%;
176        }
177        .studentForm{
178            margin-top: 50px;
179            display: grid;
180            grid-template-columns: repeat(1, 1fr);
181            grid-template-rows: repeat(2, 1fr);
182        }
183        .input{
184            display: block;
185            width: 250px;
186            height: 30px;
187            border-radius: 10px;
188            margin-top: 10px;
189            box-shadow: 5px 5px rgb(99, 186, 215);
190        }
```

```css
183     .input{
190     }
191     .display-section{
192         margin: 10px;
193         padding: 40px;
194         display: flex;
195         flex-direction: column;
196         box-shadow: 5px 5px rgb(134, 190, 209);
197         overflow-y: auto;
198         height: 400px;
199         overflow-x: auto;
200     }
201 }
202
203 @media screen and (min-width:481px) and (max-width:769px){
204     .container{
205         display: flex;
206         flex-direction: column;
207         align-items: center;
208         background-image: url("images/background1_image.jpg");
209         background-repeat: no-repeat;
210         background-size: cover;
211         height: 100%;
212         width: 100%;
213     }
214     .studentForm{
215         margin-top: 50px;
216         display: grid;
217         grid-template-columns: repeat(1, 1fr);
218         grid-template-rows: repeat(2, 1fr);
219     }
```

```css
213     }
214     .studentForm{
215         margin-top: 50px;
216         display: grid;
217         grid-template-columns: repeat(1, 1fr);
218         grid-template-rows: repeat(2, 1fr);
219     }
220     .input{
221         display: block;
222         width: 350px;
223         height: 30px;
224         border-radius: 10px;
225         margin-top: 10px;
226         box-shadow: 5px 5px rgb(99, 186, 215);
227     }
228     .display-section{
229         margin: 10px;
230         padding: 40px;
231         display: flex;
232         flex-direction: column;
233         box-shadow: 5px 5px rgb(134, 190, 209);
234         overflow-y: auto;
235         height: 400px;
236         overflow-x: auto;
237     }
238 }
239
```

Index.js

```
JS index.js > ...
```

```javascript
1   // globally defined variables
2   var rowNumber = 0;
3   var pattern_email = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;
4   var patt_contact = /^\d{10}$/;
5   var idsArray = [];
6   var updatedId ="";
7   var valName = /^[a-zA-Z\s]*$/;
8   var val_ID = /^[0-9]+$/;
9   var rowIdToUpdate = null;
10
11  // to add new student in the record section with validity check
12  function addData() {
13      rowNumber++;
14      let name = document.getElementById("std_name").value;
15      let stdId = document.getElementById("std_ID").value;
16      let email = document.getElementById("std_email").value;
17      let contact = document.getElementById("std_contact").value;
18      if(name == "" || stdId == "" || email == "" || contact == ""){
19          alert("Please insert all Fields.");
20          clearInputs();
21          return;
22      }
23      if(!name.match(valName)){
24          alert("Please enter valid Name.");
25          document.getElementById("std_name").value = "";
26          return;
27      }
28      if(idsArray != null && idsArray.length >0 && idsArray.includes(stdId))
29      {
30          alert("Please enter unique Student Id.");
31          document.getElementById("std_ID").value = "";
32          return;
33      }
```

```javascript
34      if(!stdId.match(val_ID)){
35          alert("Please enter only Numeric values in Student ID.");
36          document.getElementById("std_ID").value = "";
37          return;
38      }
39      if(!pattern_email.test(email)){
40          alert("Please enter valid Email Address.");
41          document.getElementById("std_email").value = "";
42          return;
43      }
44      if(!patt_contact.test(contact)){
45          alert("Please enter valid Contact Number.");
46          document.getElementById("std_contact").value = "";
47          return;
48      }
49      let idEdit = "editButton_"+ rowNumber;
50      let idDelete = "deleteButton_"+ rowNumber;
51      let table = document.getElementById("tbody");
52      document.getElementById("tbody").innerHTML = table.innerHTML+"<tr><td>"+name+"</td><td>"+stdId+"</td><td>"+email+"</td><td>"+contact+"</td
53      document.getElementById(idEdit).className = 'editButton';
54      document.getElementById(idDelete).className = 'deleteButton';
55      idsArray.push(stdId);
56      setLocalStorage();
57      clearInputs();
58  }
```

```javascript
59
60     // function for edit student details
61     function editData(button, stdId) {
62         let row = button.parentNode.parentNode;
63         let nameCell = row.cells[0].innerHTML;
64         let idCell = row.cells[1].innerHTML;
65         let emailCell = row.cells[2].innerHTML;
66         let contactCell = row.cells[3].innerHTML;
67         rowIdToUpdate = button.id;
68         document.getElementById("std_name").value = nameCell;
69         document.getElementById("std_ID").value = idCell;
70         document.getElementById("std_email").value = emailCell;
71         document.getElementById("std_contact").value = contactCell;
72         document.getElementById("addButton").style.display = "none";
73         document.getElementById("updateButton").style.display = "inline";
74         document.getElementById("cancelButton").style.display = "";
75         updatedId = stdId;
76     }
77
78     // function for add updated details in record section with validity check
79     function UpdateStudent() {
80         button = document.getElementById(rowIdToUpdate);
81         let rowToUpdate = button.parentNode.parentNode;
82         let name = document.getElementById("std_name").value;
83         let stdId = document.getElementById("std_ID").value;
84         let email = document.getElementById("std_email").value;
85         let contact = document.getElementById("std_contact").value;
86         if(name == "" || stdId == "" || email == "" || contact == ""){
87             alert("Please insert all Fields.");
88             clearInputs();
89             return;
90         }
```

```javascript
90         }
91         if(!name.match(valName)){
92             alert("Please enter valid Name.");
93             document.getElementById("std_name").value = "";
94             return;
95         }
96         if(idsArray.includes(stdId) && updatedId != stdId)
97         {
98             alert("Please enter unique Student Id.");
99             document.getElementById("std_ID").value = "";
100            return;
101        }
102        if(!stdId.match(val_ID)){
103            alert("Please enter only Numeric values in Student ID.");
104            document.getElementById("std_ID").value = "";
105            return;
106        }
107        if(!pattern_email.test(email)){
108            alert("Please enter valid Email Address.");
109            document.getElementById("std_email").value = "";
110            return;
111        }
112        if(!patt_contact.test(contact)){
113            alert("Please enter valid Contact Number.");
114            document.getElementById("std_contact").value = "";
115            return;
116        }
117        rowToUpdate.cells[0].innerHTML = document.getElementById("std_name").value;
118        rowToUpdate.cells[1].innerHTML = document.getElementById("std_ID").value;
119        rowToUpdate.cells[2].innerHTML = document.getElementById("std_email").value;
120        rowToUpdate.cells[3].innerHTML = document.getElementById("std_contact").value;
121        rowToUpdate = null;
```

```js
122        let indexToRemove = idsArray.indexOf(updatedId);
123        idsArray.splice(indexToRemove, 1);
124        idsArray.push(stdId);
125        setLocalStorage();
126        Cancel();
127    }
128
129    // function for cancelation of edit details
130    function Cancel() {
131        document.getElementById("std_name").value = "";
132        document.getElementById("std_ID").value = "";
133        document.getElementById("std_email").value = "";
134        document.getElementById("std_contact").value = "";
135        document.getElementById("addButton").style.display = "block";
136        document.getElementById("updateButton").style.display = "none";
137        document.getElementById("cancelButton").style.display = "none";
138        rowToUpdate = null;
139    }
140
141    // function for delete records from the record section
142    function deleteData(button, stdId) {
143        let row = button.parentNode.parentNode;
144        row.parentNode.removeChild(row);
145        let indexToRemove = idsArray.indexOf(stdId);
146        idsArray.splice(indexToRemove, 1);
147        setLocalStorage();
148    }
149
```

```js
150    // function for clear Inputs
151    function clearInputs() {
152        document.getElementById("std_name").value = "";
153        document.getElementById("std_ID").value = "";
154        document.getElementById("std_email").value = "";
155        document.getElementById("std_contact").value = "";
156    }
157
158    // function for local storage
159    function setLocalStorage() {
160        localStorage.setItem("tabledata", document.getElementById("tbody").innerHTML);
161        console.log(localStorage.getItem("tabledata"));
162        document.getElementById("tbody").innerHTML = "";
163        document.getElementById("tbody").innerHTML = localStorage.getItem("tabledata");
164        localStorage.setItem("ids", idsArray);
165    }
166
167    // function to check the uniqueness of the id and find the existing id in localstorage and add with array
168    function myFunction() {
169        if(localStorage != null && localStorage.length > 0 && localStorage.getItem("tabledata") != null) {
170            document.getElementById("tbody").innerHTML = localStorage.getItem("tabledata");
171        }
172        if(localStorage != null && localStorage.length > 0 && localStorage.getItem("ids") != null) {
173            idsArray = localStorage.getItem("ids").split(',');
174        }
175    }
```

GitHub Link: - https://github.com/Arti2510/internshala_dom_assignment.git

THANK YOU!