CODING

```html
<html lang="en">

  <head>

    <meta charset="utf-8" />

    <meta

      name="viewport"

      content="width=device-width, initial-scale=1, shrink-to-fit=no"

    />

    <link

      rel="stylesheet"

      href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.1/dist/css/bootstrap.min.css"

      integrity="sha384-zCbKRCUGaJDkqS1kPbPd7TveP5iyJE0EjAuZQTgFLD2ylzuqKfdKlfG/eSrtxUkn"

      crossorigin="anonymous"

    />

    <title>Library Management System</title>

  </head>

  <body>

    <nav class="navbar navbar-expand-lg navbar-dark bg-dark">

      <a class="navbar-brand" href="#">Online Library</a>

      <button

        class="navbar-toggler"

        type="button"

        data-toggle="collapse"

        data-target="#navbarSupportedContent"

        aria-controls="navbarSupportedContent"

        aria-expanded="false"
```

```
      aria-label="Toggle navigation"

>

  <span class="navbar-toggler-icon"></span>

</button>

<div class="collapse navbar-collapse" id="navbarSupportedContent">

  <ul class="navbar-nav mr-auto">

    <li class="nav-item active">

      <a class="nav-link" href="#"

        >Home <span class="sr-only">(current)</span></a

      >

    </li>

  </ul>

  <form class="form-inline my-2 my-lg-0">

    <input

      class="form-control mr-sm-2"

      type="search"

      placeholder="Search"

      aria-label="Search"

    />

    <button class="btn btn-outline-success my-2 my-sm-0" type="submit">

      Search

    </button>

  </form>

</div>

</nav>

<div id="alertuser"></div>

<div class="container my-3">

  <h1>Welcome to My Library</h1>

  <hr />
```

```html
<form id="mylibraryform">
  <div class="form-group">
    <label for="exampleInputEmail1">User Name</label>
    <input
      type="text"
      class="form-control"
      id="User-Name"
      aria-describedby="emailHelp"
    />
    <small id="emailHelp" class="form-text text-muted"
      >We'll never share your user name with anyone else.</small
    >
  </div>
  <div class="form-group">
    <label for="exampleInputPassword1">Book Name</label>
    <input type="text" class="form-control" id="Book-Name" />
  </div>
  <div class="form-group">
    <label for="bookType">Book Type</label>
    <div class="check-boxes my-3 mx-5">
      <div class="form-check p-2">
        <input
          class="form-check-input"
          type="radio"
          name="check-box"
          id="Fiction"
          value="Fiction"
        />
        <label class="form-check-label" for="Fiction"> Fiction </label>
```

```html
    </div>
    <div class="form-check p-2">
      <input
        class="form-check-input"
        type="radio"
        name="check-box"
        id="Programing"
        value="Programing"
      />
      <label class="form-check-label" for="Programing">
        Programing
      </label>
    </div>
    <div class="form-check p-2">
      <input
        class="form-check-input"
        type="radio"
        name="check-box"
        id="Cooking"
        value="Cooking"
      />
      <label class="form-check-label" for="Cooking"> Cooking </label>
    </div>
    </div>
  </div>
  <button type="submit" class="btn btn-outline-dark">Add Book</button>
</form>
<table class="table table-dark my-3">
  <thead>
```

```html
    <tr>

      <th scope="col">Sl No.</th>

      <th scope="col">Date of issue</th>

      <th scope="col">Reader</th>

      <th scope="col">Book Name</th>

      <th scope="col">Genre</th>

      <th scope="col"></th>

    </tr>

   </thead>

   <tbody id="table-body"></tbody>

  </table>

 </div>

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

 <script

   src="https://cdn.jsdelivr.net/npm/jquery@3.5.1/dist/jquery.slim.min.js"

   integrity="sha384-DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj"

   crossorigin="anonymous"

 ></script>

 <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.1/dist/js/bootstrap.bundle.min.js"

   integrity="sha384-fQybjgWLrvvRgtW6bFlB7jaZrFsaBXjsOMm/tB9LTS58ONXgqbR9W8oWht/amnpF"

   crossorigin="anonymous"

 ></script>

 </body>

</html>
```

JAVASCRIPT SOURCE CODE:

```javascript
// getting input from input areas -->`

function inputs(userName, bookName, type) {

 this.userName = userName;
```

```javascript
    this.bookName = bookName;

    this.type = type;

}

class Display {

  constructor() {}

  add(arrayInputs) {

    let tableBody = document.getElementById("table-body");

    let today = new Date().toLocaleDateString();

    let htmltobeadded = "";

    for (let i = 0; i < arrayInputs.length; i++) {

      htmltobeadded += `

            <tr>

             <td>${i + 1}</td>

             <td>${today}</td>

             <td>${arrayInputs[i].userName}</td>

             <td>${arrayInputs[i].bookName}</td>

             <td>${arrayInputs[i].type}</td>

             <td> <button type="button" onclick = "deleteItem(${i})" class ="dlt-btn btn-primary
btn " id ="dlt-btn"> Delete </button> </td>

            </tr>

        `;

    }

    tableBody.innerHTML = htmltobeadded;

  }

  clear() {

    let myForm = document.getElementById("mylibraryform");
```

```
  myForm.reset();

  }

  validate(inputs) {

    if (inputs.userName == "" || inputs.bookName == "") {

      return false;

    } else return true;

  }

  alertuser(type, sub, massage) {

    let alertuser = document.getElementById("alertuser");

    let htmltobeaddedinalert = ` <div class="alert alert-${type} alert-dismissible fade show" id="alert" role="alert" >

      <strong>${sub}</strong> ${massage}

      <button type="button" class="close"  data-dismiss="alert" aria-label="Close">
  <span aria-hidden="true">×</span>

      </button>

    </div>`;

    alertuser.innerHTML += htmltobeaddedinalert;

    setTimeout(() => {

      alertuser.innerHTML = "";

    }, 4000);

  }

  // check if the book is issued or not -->

  checkIssue(listArray, o1) {

    for (let i = 0; i < listArray.length; i++) {

      if (listArray[i].bookName == o1.bookName) {

        this.issuedUser = listArray[i].userName;
```

```
      return 0;

    }

  }

    return 1;

  }

}

// Show BookList even after reload -->

function showList() {

  let listItems = localStorage.getItem("listItems");

  if (listItems == null) {

    listArray = [];

  } else {

    listArray = JSON.parse(listItems);

  }

  new Display().add(listArray);

  // console.log(listArray);

}

showList();

// Deleting List Item -->

function deleteItem(index) {

  let listItems = localStorage.getItem("listItems");

  if (listItems == null) {

    listArray = [];

  } else {

    listArray = JSON.parse(listItems);
```

```
  }

  listArray.splice(index, 1);

  localStorage.setItem("listItems", JSON.stringify(listArray));

  showList();

}

// add submit finction to the form -->

const form = document.getElementById("mylibraryform");

form.addEventListener("submit", formSubmit);

function formSubmit(e) {

  e.preventDefault();

  let givenUserName = document.getElementById("User-Name").value;

  let givenBookName = document.getElementById("Book-Name").value;

  let givenType;

  let checkFiction = document.getElementById("Fiction");

  let checkPrograming = document.getElementById("Programing");

  let checkcooking = document.getElementById("Cooking");

  if (checkFiction.checked) {

    givenType = checkFiction.value;

  } else if (checkPrograming.checked) {

    givenType = checkPrograming.value;

  } else {

    givenType = checkcooking.value;

  }

  let o1 = new inputs(givenUserName, givenBookName, givenType);

  let displayObj = new Display();
```

```
if (displayObj.validate(o1) && displayObj.checkIssue(listArray, o1) == 1) {

  let listItems = localStorage.getItem("listItems");

  if (listItems == null) {

    listArray = [];

  } else {

    listArray = JSON.parse(listItems);

  }

listArray.push(o1);

  localStorage.setItem("listItems", JSON.stringify(listArray));

  // console.log(listArray.length);

  new Display().add(listArray);

  displayObj.clear();

  displayObj.alertuser("success", "Success", "Book is issued");

} else if (displayObj.checkIssue(listArray, o1) == 0) {

    let issuedUser =

  displayObj.alertuser(

    "danger",

    "Oops!",

    Book is already issued by ${displayObj.issuedUser}

  );

  displayObj.clear();

} else {

  displayObj.alertuser("danger", "Oops!", "Book is not issued");

  displayObj.clear();

}}
```