Library Management System Milestone 1 – Code Review 11th September 2024

UT Number:UT01215

(Save file in this format - Library_UT No. eg: library_UT5000)

Instructions:

- 1. Please use **ONE** file for related HTML, CSS & JavaScript
- 2. Use Copy & Paste for inserting code

Q1.

1. Using the JSON data of members, Display the information shown there by using **only the HTML table and associated javascript code**.(no css required)

All-Members

Add-Member

ld	firstName	stName astName dateOfBirth		image
M001	John	Doe	1990-05-15	
M002	Jane	Smith	1985-08-22	
M003	Michael	Johnson	1992-11-30	Tools and Mathematics
M004	Emily	Williams	1995-04-10	SUM ALN THINGS
M005	Nelson	Mandella	1965-04-17	Plast the right
M006	Fname	Lname	2024-09-01	
M007	Fname	Lname	2024-09-01	

```
function show_members(event) {
   read_members_local();
  let table = document.getElementById("member_table");
   table.innerHTML = ` <thead>
      Id
      firstName
      lastName
      dateOfBirth
      image
   </thead>`;
  members.forEach(m => {
      table.innerHTML += ` 
   ${m.id}
      ${m.firstName}
      ${m.lastName}
      ${m.dateOfBirth}
      <img class="mimg" src="${m.image}" alt="image">
   `;
  });
```

2. Display the Books Data in GridView using loop (you can either use flex or grid in CSS)

All-Books

Add-Book



bookld: B001

bookName: The Great Gatsby

dateOfPublish: 1925-04-10

isbn: 9780743273565



bookld: B002

bookName: To Kill a Mockingbird

dateOfPublish: 1960-07-11

isbn: 9780060935467



bookld: B003

bookName: 1984

dateOfPublish: 1949-06-08

isbn: 9780451524935



bookld: B004

bookName: Pride and Prejudice

dateOfPublish: 1813-01-28

isbn: 9780141040349



bookld: B009

bookName : NewBook

dateOfPublish: 2000-01-01

isbn: 32425239



bookld: B010

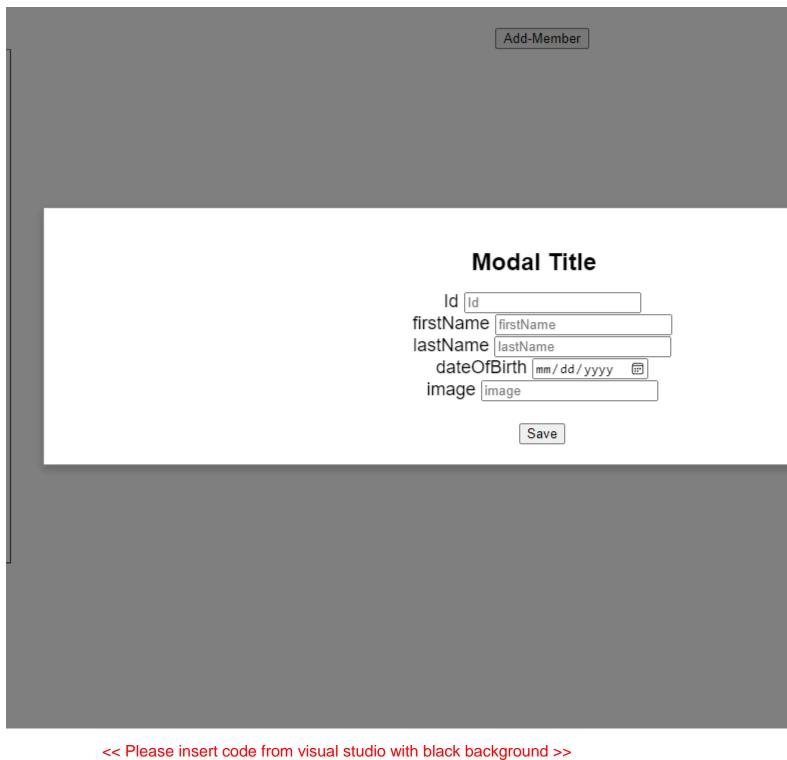
bookName: NewBook

dateOfPublish: 2000-01-01

isbn: 32425239

Q2.

- 1. Using the Modal window given in the code, and by utilizing Q1 -> 1 question, display the member table
 - a. You need to create a form in the modal window and put the SAVE button.

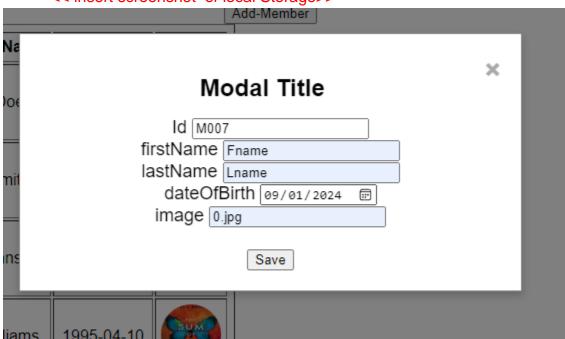


```
<!-- Modal Structure -->
  <div id="myModal" class="modal">
      <div class="modal-content">
          <span class="close-btn">&times;</span>
          <h2 class="modal-title">Modal Title</h2>
```

```
<div class="modal-body">
            <div class="form_div">
                <form id="addmember_form">
                    <div class="input div">
                        <label>Id</label>
                        <input id="mid" type="text" placeholder="Id">
                    </div>
                    <div class="input_div">
                        <label>firstName</label>
                        <input id="firstName" type="text" placeholder="firstName">
                    </div>
                    <div class="input div">
                        <label>lastName</label>
                        <input id="lastName" type="text" placeholder="lastName">
                    </div>
                    <div class="input_div">
                        <label>dateOfBirth</label>
                        <input id="dateOfBirth" type="date" placeholder="dateOfBirth">
                    </div>
                    <div class="input_div">
                        <label>image</label>
                        <input id="image" type="text" placeholder="image">
                    </div>
                    <br>
                    <button type="submit">Save</button>
                </form>
            </div>
       </div>
   </div>
</div>
```

b. Once you click save data should be stored inside local storage

<< insert screenshot of local Storage>>



All-Members

Add-Member

ld	firstName	lastName	dateOfBirth	image
M001	John	Doe	1990-05-15	
M002	Jane	Smith	1985-08-22	
M003	Michael	Johnson	1992-11-30	Tools and Mathematics
M004	Emily	Williams	1995-04-10	SUM JALL THINGS
M005	Nelson	Mandella	1965-04-17	Ratio nir
M006	Fname	Lname	2024-09-01	
M007	Fname	Lname	2024-09-01	

<< Please insert code from visual studio with black background >>

```
function add_member(event) {
    event.preventDefault();
    let form = document.getElementById("addmember_form");
    let member = {
        "id":form.mid.value,
        "firstName": form.firstName.value,
        "lastName": form.lastName.value,
        "dateOfBirth": form.dateOfBirth.value,
        "image": form.image.value
    }
    members.push(member);
    save_members_local();
    show_members();
    modal.style.display = "none";
}
```

c. The list of members should be updated.

All-Mem

Add-Memb

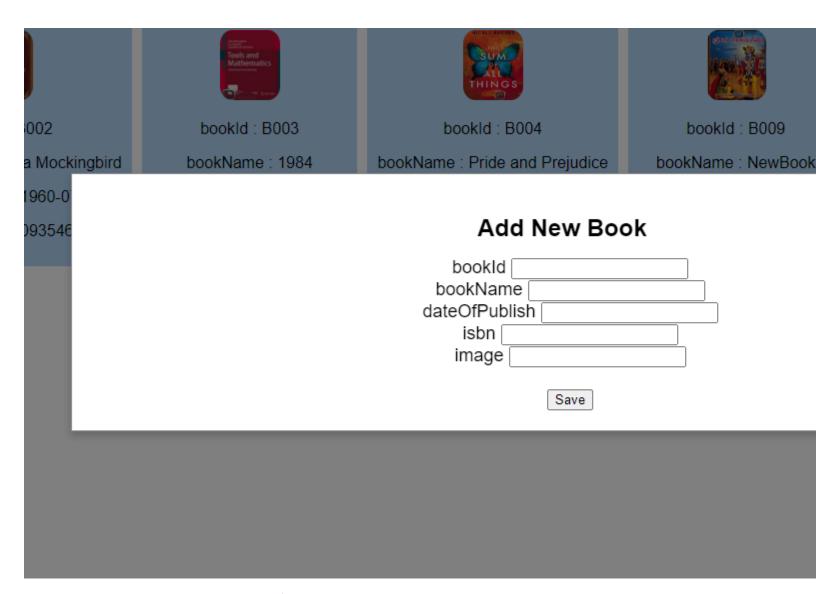
ld	firstName	lastName dateOfBirth		image
M001	John	Doe 1990-05-15		
M002	Jane	Smith 1985-08-22		
M003	Michael	Johnson	1992-11-30	Tools and Mathematics
M004	Emily	Williams	1995-04-10	SUM ALIN THINGS
M005	Nelson	Mandella	1965-04-17	Class spir
M006	Fname	Lname	2024-09-01	
M007	Fname	Lname	2024-09-01	

<< Please insert code from visual studio with black background >>

```
function show_members(event) {
    read_members_local();
    let table = document.getElementById("member_table");
    table.innerHTML = ` <thead>
```

```
Id
         firstName
         lastName
         dateOfBirth
         image
      </thead>`;
      members.forEach(m => {
         table.innerHTML += ` 
      ${m.id}
         ${m.firstName}
         ${m.lastName}
         ${m.dateOfBirth}
         <img class="mimg" src="${m.image}" alt="image">
      `;
      });
   }
   function save_members_local() {
      localStorage.setItem("members", JSON.stringify(members));
function read_members_local() {
      members = [];
      olddata = JSON.parse(localStorage.getItem("members"));
      olddata.forEach(data => {
         members.push(data);
      });
```

- 2. For the books data, add a modal window to the Q1 -> 2 code,
 - a. Add associated form data for books with a save button.



<< Please insert code from visual studio with black background >>

```
<input id="bookName" type="text">
                </div>
                <div class="input_div">
                    <label>dateOfPublish</label>
                    <input id="dateOfPublish" type="text">
                </div>
                <div class="input_div">
                    <label>isbn</label>
                    <input id="isbn" type="text">
                </div>
                <div class="input_div">
                    <label>image</label>
                    <input id="image" type="text">
                </div>
                <br>
                <button type="submit">Save</button>
            </form>
        </div>
    </div>
</div>
```

b. Once clicked save button, books data should update inside local storage

All-Books

Add-Book

 \times

80



bookld: B001

okName : The Great Ga

ateOfPublish: 1925-04-

isbn: 9780743273565

Add New Book

bookld B010

bookName NewBook

dateOfPublish 2000-01-01

isbn 32425239

image 9.jpg

Save



bookld: B004

okName : Pride and Prejudice

dateOfPublish: 1813-01-28

isbn: 9780141040349



bookld: B009

bookName: NewBook

dateOfPublish: 2000-01-01

isbn: 32425239

All-Books

Add-Book



bookld: B001

bookName: The Great Gatsby

dateOfPublish: 1925-04-10

isbn: 9780743273565



bookld: B002

bookName: To Kill a Mockingbird

dateOfPublish: 1960-07-11

isbn: 9780060935467



bookld: B003

bookName: 1984

dateOfPublish: 1949-06-08

isbn: 9780451524935



bookld: B004

bookName: Pride and Prejudice

dateOfPublish: 1813-01-28

isbn: 9780141040349



bookld: B009

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bookName : NewBook

dateOfPublish: 2000-01-01

isbn: 32425239



bookld: B010

bookName : NewBook

dateOfPublish: 2000-01-01

isbn: 32425239

```
function add_book(event) {
    event.preventDefault();
    let form = document.getElementById("add_bookform");
    let book = {
        "bookId": form.bookId.value,
        "bookName": form.bookName.value,
        "dateOfPublish": form.dateOfPublish.value,
        "isbn": form.isbn.value,
        "image": form.image.value
    };
    books.push(book);
    save_books_local();
    show_books();
   modal.style.display = "none";
function save_books_local() {
    localStorage.setItem("books", JSON.stringify(books));
function read_books_local() {
   books = [];
    olddata = JSON.parse(localStorage.getItem("books"));
    olddata.forEach(data => {
        books.push(data);
    });
```

c. Newly added data should be available in GridView.

All-Books

Add-Book



bookld: B001

bookName: The Great Gatsby

dateOfPublish: 1925-04-10

isbn: 9780743273565



bookld: B002

bookName: To Kill a Mockingbird

dateOfPublish: 1960-07-11

isbn: 9780060935467



bookld: B003

bookName: 1984

dateOfPublish: 1949-06-08

isbn: 9780451524935



bookld: B004

bookName: Pride and Prejudice

dateOfPublish: 1813-01-28

isbn: 9780141040349



bookld: B009

bookName : NewBook

dateOfPublish: 2000-01-01

isbn: 32425239



bookld: B010

bookName : NewBook

dateOfPublish: 2000-01-01

isbn: 32425239

<< Please insert code from visual studio with black background >>

Q3.

- Utilizing Q2->2, once clicked on the book card (Grid View)
 Data structure: books_lend: [Member, lending date, number of lending days]
 - a. It should navigate to a page called books_lends.html?bookld={id}

<< insert screenshot 1 of URL 1 >>

<< insert screenshot 2 of URL 2>>

- <<Please insert code for to link the above view on the GRID page>>
- b. Introduce a heading bookTile : {bookTitle}, it should change according to dynamic bookId in url

<< insert screenshot >>

- << Please insert code from visual studio with black background >>
- c. on their you have to utilize the inline table given in the code guide and modify associated Column headings and fields

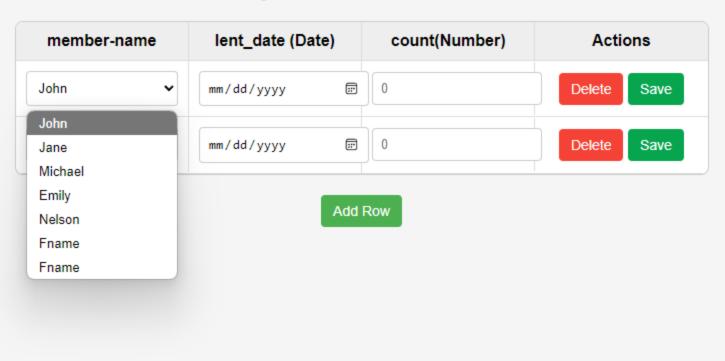
Dynamic Inline Table

member-	name	lent_date (Date)	count(Number)	Actions	
John	•	mm/dd/yyyy 🗊	0	Delete Save	
Add Row					

<< Please insert code from visual studio with black background >

d. You have to associate lending details such as [Member , lending date , number of lending days] here Members should populate in dropdown

Dynamic Inline Table



<< Please insert code from visual studio with black background >>

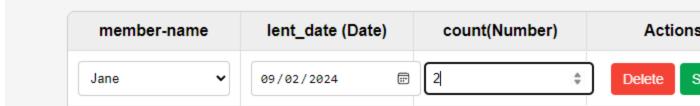
```
</div>
</div>
 `;
           const newRow = document.createElement("div");
           newRow.innerHTML = newRowhtml;
           let select = document.createElement("select");
           members.forEach(m => {
               let option = document.createElement("option");
               option.value = m.id;
               option.textContent = m.firstName;
               select.appendChild(option);
           });
           newRow.querySelector("#seloption").appendChild(select);
           tableContainer.appendChild(newRow);
           // Attach event listener to the new delete button
           newRow.querySelector(".delete-btn").addEventListener("click", () => {
               newRow.remove();
           });
```

e. Data should persist to local storage and make sure the data get loaded even after refresh

mm/dd/yyyy

<< insert screenshot of UI>>

John

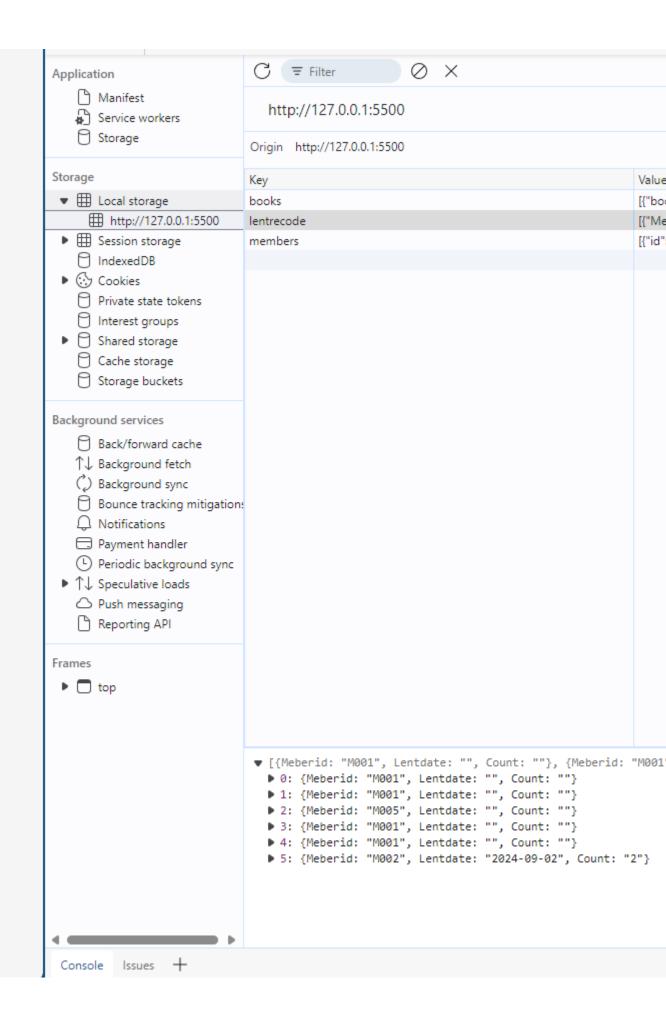


Delete

Delete

Add Row

<< insert screenshot of LocalStorage>>



<< Please insert code from visual studio with black background >>

```
newRow.querySelector(".save-btn").addEventListener("click", () => {
              read lendrecode local();
              let meberid = newRow.querySelector("select").value;
              let lentdate = newRow.querySelector('input[type="date"]').value;
              let count = newRow.querySelector('input[type="number"]').value;
              console.log(meberid);
              console.log(lentdate);
               console.log(count);
              let recode = {
                  Meberid: meberid,
                  Lentdate: lentdate,
                   Count: count
              }
              lentRecod.push(recode);
               save_recodelocal();
              newRow.querySelector(".save-btn").textContent = "Saved";
              newRow.querySelector(".save-btn").style.display = "none";
              newRow.querySelector("select").disabled = true;
              newRow.querySelector('input[type="date"]').disabled = true;
              newRow.querySelector('input[type="number"]').disabled = true;
```