

## 🔗 Exercise 2 - Displaying User Information

**Objective:** To render a list of users from an array into an HTML structure using pure JavaScript. This exercise will help you understand how to dynamically create and manipulate the DOM elements.

### Instructions:

#### 1. Initialize Data:

```
const users = [
  {
    id: 167464,
    firstName: 'Jimmy',
    lastName: 'Arnold',
  },
  {
    id: 578447,
    firstName: 'Martha',
    lastName: 'Goldman',
  },
  {
    id: 864578,
    firstName: 'Tim',
    lastName: 'Burton',
  },
];
```

- **Users Array:** We've been provided with an array of user objects. Each user has the following properties:

- `id` : A unique identifier for the user.
- `firstName` : The user's first name.
- `lastName` : The user's last name.

#### 2. Setup a Target Element:

- **Fetching the Container:** Use the `document.querySelector('.container')` method to grab the `div` element with the class `container`. This `div` will act as a

parent element where we will append our created list.

### 3. Creating an Ordered List:

- **Initialization:** Create an ordered list element ( `<ol>` ) using `document.createElement('ol')` . This element will house our list of users.
- **Styling the List:** Update the style of the list to remove the default bullet points by setting the `listStyleType` property to `'none'` using `olEl.style.listStyleType = 'none'` .

### 4. Looping through Users:

- **Iterating with `forEach`:** Use the `forEach` method to loop over each user object in the `users` array. The provided callback function receives the current `e1` (user object) as its parameter.

### 5. Creating and Appending List Items:

- **Creating a List Item:** For each user, create a list item ( `<li>` ) element using `document.createElement('li')` .
- **Setting Data Attribute:** Use the `setAttribute` method to add a custom data attribute ( `data-id` ) to the list item. This will store the user's unique ID, making it retrievable directly from the DOM element. The code `liEl.setAttribute('data-id', e1.id)` adds this attribute.
- **Setting Text Content:** Set the text content of the list item to display the user's first and last name. This is achieved using `liEl.textContent = e1.firstName + ' ' + e1.lastName` .
- **Appending to Parent Elements:** Append the created list item to the ordered list. Simultaneously, append the ordered list to the target container. This is done with the `olEl.append(liEl)` and `target.append(olEl)` commands respectively.

### 6. Rendering the List:

- Load your webpage to see the rendered list.
- Each user's full name should be displayed in an ordered list, and if you inspect the elements in a developer console, you'll notice each list item has a `data-id` attribute holding the user's ID.