DOM TP1 :

Use the following HTML code as your starting point

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Interactive Form</title>
  <link rel="stylesheet" href="style.css">
</head>
<body>
  <div class="container">
    <h1>Interactive User Form</h1>
    <button id="bg-button">Change Background Color</button>

    <form id="textForm">
      <input type="text" id="nameInput" placeholder="Enter your name" required />
      <input type="email" id="emailInput" placeholder="Enter your email" required />
      <input type="password" id="passwordInput" placeholder="Enter your password" required />
      <input type="tel" id="phoneInput" placeholder="Enter your phone number" required />
      <button type="submit">Submit</button>
    </form>
```
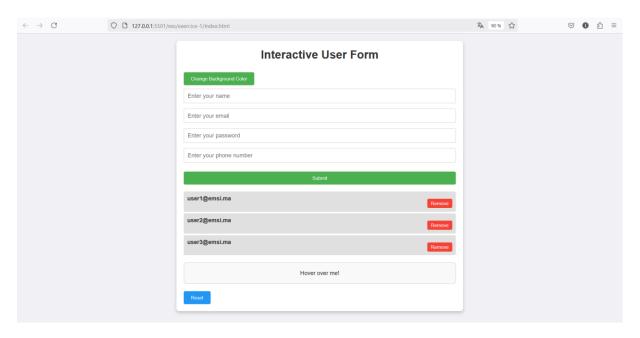
```html
    <div id="formResult"></div>

    <ul id="list">
      <li><span>user1@emsi.ma</span> <button>Remove</button></li>
      <li><span>user2@emsi.ma</span> <button>Remove</button></li>
      <li><span>user3@emsi.ma</span> <button>Remove</button></li>
    </ul>

    <div id="hoverDiv">Hover over me!</div>
    <button id="resetButton" class="reset">Reset</button>
  </div>

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


<!—on css file
* {
  margin: 0;
  padding: 0;
  box-sizing: border-box;
  font-family: Arial, sans-serif;
}

body {
  background-color: #f0f0f5;
  color: #333;
  padding: 20px;
}

.container {
  max-width: 800px;
  margin: 0 auto;
  background-color: #fff;
  padding: 20px;
  border-radius: 8px;
  box-shadow: 0 4px 8px rgba(0, 0, 0, 0.2);
}

h1 {
  text-align: center;
  margin-bottom: 20px;
}

button {
```

```css
  padding: 10px 20px;
  margin-top: 10px;
  background-color: #4caf50;
  color: white;
  border: none;
  border-radius: 4px;
  cursor: pointer;
}

button:hover {
  background-color: #45a049;
}

form {
  display: flex;
  flex-direction: column;
  gap: 15px;
}

form input {
  padding: 10px;
  font-size: 1rem;
  border: 1px solid #ccc;
  border-radius: 4px;
}

#formResult {
  margin-top: 20px;
  font-size: 1rem;
}

ul {
  list-style-type: none;
  padding: 0;
  margin: 20px 0;
}

ul li {
  background-color: #e0e0e0;
  margin: 5px 0;
  padding: 10px;
  border-radius: 4px;
  display: flex;
  justify-content: space-between;
}

ul li span {
```

```css
  font-weight: bold;
}

ul li button {
  background-color: #f44336;
  border: none;
  color: white;
  padding: 5px 10px;
  border-radius: 4px;
  cursor: pointer;
}
#bg-button {
  margin-bottom: 10px;
}

ul li button:hover {
  background-color: #d32f2f;
}

#hoverDiv {
  padding: 20px;
  text-align: center;
  background-color: #f9f9f9;
  border: 1px solid #ccc;
  border-radius: 8px;
  margin-top: 20px;
  transition: background-color 0.3s;
}

#hoverDiv:hover {
  background-color: #e3e3e3;
}

.reset {
  margin-top: 20px;
  background-color: #2196f3;
}

.reset:hover {
  background-color: #1976d2;
}

/* General container styling */
.container {
  max-width: 800px;
  margin: 0 auto;
  padding: 20px;
```

```css
  font-family: Arial, sans-serif;
}

h1 {
  text-align: center;
  color: #333;
}

/* Form styling */
form {
  margin-bottom: 20px;
  display: flex;
  flex-wrap: wrap;
  gap: 10px;
}

form input {
  flex: 1;
  padding: 10px;
  border: 1px solid #ccc;
  border-radius: 5px;
  font-size: 14px;
}

form button {
  padding: 10px 20px;
  background-color: #007bff;
  color: #fff;
  border: none;
  border-radius: 5px;
  cursor: pointer;
  font-size: 16px;
}

form button:hover {
  background-color: #0056b3;
}

/* Table styling */
table {
  width: 100%;
  border-collapse: collapse;
  margin-top: 20px;
  background-color: #f9f9f9;
  box-shadow: 0 2px 5px rgba(0, 0, 0, 0.1);
}
```

```css
thead th {
  background-color: #007bff;
  color: #fff;
  padding: 10px;
  text-align: left;
  font-weight: bold;
}

tbody td {
  padding: 10px;
  border: 1px solid #ddd;
}

tbody tr:nth-child(even) {
  background-color: #f2f2f2;
}

tbody tr:hover {
  background-color: #e0e7ff;
}

/* Reset button styling */
button#resetButton {
  margin-top: 20px;
  padding: 10px 20px;
  background-color: #dc3545;
  color: #fff;
  border: none;
  border-radius: 5px;
  cursor: pointer;
  font-size: 16px;
}

button#resetButton:hover {
  background-color: #a71d2a;
}
```

1. Change Background Color:

Select the button with the ID bg-button.

Add a click event listener to the button.

When the button is clicked:

- Generate a random RGB color.

- Change the background color of the entire webpage to the generated color.

2. **Form Submission Handling:**

- Write JavaScript to handle the form submission.

- On submission, collect the form data (name, email, password, phone).

- Validate the inputs (all fields must be filled, email must be valid, etc.).

- Display an alert or message if validation fails.

3. **Display Submitted Data:**

- Add the submitted user details to the list below the form.

- Display the name, email, and phone only (hide the password).

- Add each user as a list item (<li>).

4. **Add Interaction to List Items (show email on console, remove the clicked element from the list):**

- When a user clicks on a list item, log their details to the console.

- Add a "Remove" button next to each user. Clicking this button should remove the user from the list.

5. **Hover Effect:**

- Change the background color of a list item when the mouse hovers over it.

6. **Reset Button:**

- Implement a reset button that clears all users from the list and resets the form inputs.