Exercise: Build a User Profile Component with Destructuring & **Higher-Order Methods**

Objective:

Trainees will extract data using destructuring and use array methods to display a list of transactions in a simple profile UI.

* Step 1: Set Up the Project

Instructions:

- 1. Create a folder for this project.
- 2. Inside the folder, create three files:
 - o index.html (for structure) styles.css (for styling)
 - o script.js(for logic)

Step 2: Define the User Data (JavaScript)

- 1. Open script.js
- 2. Copy and paste the following object:

```
const user = {
   id: "USER-123456",
   name: {
       first: "Alice",
       last: "Liddell"
   email: "alice@example.com",
   address: {
       shipping: {
            street: "123 Rabbit Hole",
           city: "Wonderland",
            state: "Fantasy",
            postalCode: "12345",
```

```
country: "WL"
        },
        billing: {
            street: "456 Mad Hatter Lane",
            city: "Tea Party",
            state: "Fantasy",
            postalCode: "67890",
            country: "WL"
    },
    payment: {
        total: "100.00",
        currency: "USD",
        details: {
            subtotal: "75.00",
            shipping: "10.00"
        },
        transactions: [
            { id: "TXN-123", amount: "50.00", description: "Magic Potion"
},
            { id: "TXN-456", amount: "50.00", description: "Enchanted
};
```

★ Step 3: Destructure User Data

Instructions:

1. **Use destructuring** to extract values from user in script.js:

★ Step 4: Build the HTML Structure

- Open index.html
- 2. Copy & paste the following structure:

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>User Profile</title>
   <link rel="stylesheet" href="styles.css">
</head>
<body>
   <div class="user-profile">
       <h1>User Profile</h1>
       <section id="personal-info"></section>
       <section id="shipping-address"></section>
       <section id="billing-address"></section>
       <section id="transactions"></section>
   </div>
   <script src="script.js"></script>
</body>
</html>
```

★ Step 5: Inject User Data into HTML

- 1. **Use document.getElementById** to select sections in script.js.
- 2. Use template literals to inject destructured data into the UI.

★ Step 6: Display Transactions Using map()

Instructions:

- 1. **Use .map()** to loop over transactions and generate a transaction list.
- 2. Append the results to transactions section.

📌 Step 7: Style the Profile Page

- 1. Open styles.css
- 2. Add styling:

```
body {
    font-family: Arial, sans-serif;
    background-color: #f8f9fa;
    padding: 20px;
}

.user-profile {
    max-width: 500px;
    margin: auto;
    padding: 20px;
    background: white;
    border-radius: 10px;
    box-shadow: 0px 4px 6px rgba(0, 0, 0, 0.1);
}
```

```
h1, h2 {
    color: #152A36;
}

ul {
    list-style: none;
    padding: 0;
}

li {
    background: #f1f1f1;
    padding: 10px;
    margin-top: 5px;
    border-radius: 5px;
}
```