

Advanced JS - Guided Project

Introduction

In this phase of our E-Commerce application development, we'll focus on enabling seamless interaction between the frontend and backend. You'll learn how to fetch and post data using a local JSON Server, which will simulate real-world backend operations. Additionally, we'll implement user authentication using **Local Storage** and **Session Storage**.

Problem Statement

Follow the instructions in the Readme file from the source code to launch a JSON server and complete the tasks below.

Index:

1. Table Data

- Use these URLs to fetch data and display it in the corresponding tables on your web pages.
- b. Create a new JavaScript file inside the js folder and link it to the appropriate HTML file.
- Use the Fetch API to retrieve data from the server and dynamically add it to the table's section.

http://localhost:3000/
Static files:
Serving ./public directory if it exists

Endpoints:
http://localhost:3000/products
http://localhost:3000/categories

http://localhost:3000/orders

d. Repeat this process for **all tables** in the application to ensure each one is populated with server data.

2. Form Data

- a. When the form is submitted, collect and validate the input data to ensure it's complete and correct.
- b. Use the **Fetch API** to **upload the data to the JSON Server** via a POST request.
- c. After successful submission, reset the form and redirect the user to the corresponding table view page
 - —for example, submitting the **Add Product** form should navigate to the **View Products** page.
- d. Ensure the **newly added data appears** in the table immediately.
- e. Repeat this process for **all form web pages** in the application to ensure the server is populated with form data.



3. Register

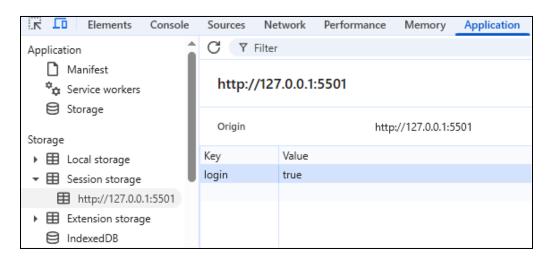
A user **must be registered** before accessing any page on the website.

- Use the Registration form to collect user details and handle the form submission using JavaScript.
- b. **Fetch the input data** and **validate** it upon submission.
- c. Store the **data** as an **object in Local Storage** for reference and authentication purposes as shown below.



4. Sign In

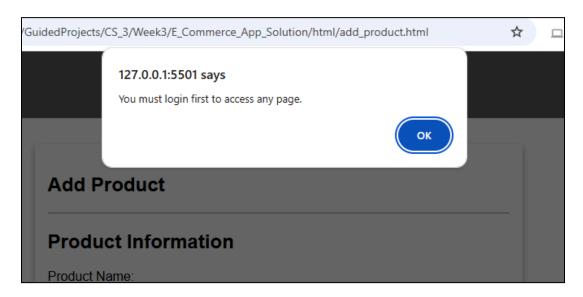
- a. Use the Sign In form to capture the username and password upon submission.
- b. Retrieve the stored user data from Local Storage and verify the credentials against it.
- c. If the credentials are valid, set the login status to true and store it in Session Storage. Also, redirect the user to the home page of the application.
- d. If the credentials are not valid, show a message on the page to register before Sign in.
- e. Ensure that access to the home page is **restricted** unless the user has successfully **signed in** and the login status is verified.





5. Validate Sign In

- a. On loading any web page, first check the log-in status from Session Storage.
- b. If the login status is **false or missing**, display an **alert** prompting the user to sign in, and **redirect** them to the **Sign In** page.
- c. If the login status is true in session storage, allow access to the page and **display** the username in the header.
- d. Apply this validation logic to **all HTML pages** in the application **except** sign-in.html and register.html.
- e. Add an event listener to the **Sign Out** button on every page header, when clicked, removes the login status from Session Storage and redirects the user to the **Sign In page**.



!!! Happy Coding !!!