**UX Instructions Exercise 3**

This is a basic hash-based SPA. For more advanced SPAs (like in React, Angular, Vue), you’d use a virtual DOM and client-side routing libraries. This method is SEO-friendly-ish, but full SPA frameworks have more sophisticated solutions.

* Uses JavaScript and hash-based routing (#home, #gallery, #contact) to behave like a Single Page Application (SPA).
* Shows and hides content without reloading the page.

1. Add link to css file
2. Add <nav>

* Uses anchor links (#hash) to simulate navigation **without reloading**.
* This is **hash routing**, which enables a SPA behavior in plain HTML.

<nav>

<a href="#home">Home</a>

<a href="#gallery">Gallery</a>

<a href="#contact">Contact</a>

</nav>

1. Add the SPA sections. Only one is shown at a time. The Gallery sections can have images:

* The active class is toggled based on which link is selected.
* The gallery includes image boxes laid out using Flexbox.

<div id="home" class="section active">...</div>

<div id="gallery" class="section">...</div>

<div id="contact" class="section">...</div>

1. Add JavaScript functionality

This function:

* **Removes .active from all sections**
* **Adds .active** to the section matching the hash (e.g. #gallery)

function showSection(hash) {

document.querySelectorAll(".section").forEach((section) => {

section.classList.remove("active");

});

const target = document.querySelector(hash);

if (target) {

target.classList.add("active");

} else {

document.querySelector("#home").classList.add("active");

}

}

* When you click a nav link and the hash changes (e.g., #contact), this listens for it and calls showSection().

window.addEventListener("hashchange", () => {

showSection(location.hash);

});

* This ensures the right section is visible when the page loads or reloads.

window.addEventListener("load", () => {

if (!location.hash) {

location.hash = "#home"; // Default to home

}

showSection(location.hash); // Show correct section on load

});

1. You can look in the Elements tab in the browser to see these changing dynamically.
2. Quiz: How does an SPA help modern, mobile-first design?