# Lesson 6: Multi-View UI (Page Switching)

## **6** Goal

Students will learn how to create simple multi-view apps by showing and hiding different sections of a webpage using JavaScript. This simulates switching between pages like in real applications.

# **Total Duration:** 90–120 minutes

Level: Intermediate

# **O**Lesson Outline

## 1. Warm-Up (10 minutes)

- Ask students:
  - "Have you seen apps with different pages like Home, Settings, or Profile?"
  - "What if we want to build that without loading a new page?"
- Demo a simple UI where clicking buttons switches content.

## 2. Basic Concept: Show/Hide Views (20 minutes)

- V Use CSS display property to toggle sections

```
document.getElementById("view1").style.display = "none";
document.getElementById("view2").style.display = "block";
```

- / Student Practice:
  - Toggle between two <aiv> s by clicking a button

## 3. Structure a Multi-View App (20 minutes)

- Layout with 3 views: Home, Notes, Settings
- Navigation buttons at the top
- Keep each view in a separate <div>

## Navigation Code Example:

```
function showView(id) {
  let views = ["homeView", "notesView", "settingsView"];
  views.forEach(v ⇒ {
    document.getElementById(v).style.display = (v === id) ? "block" : "none";
  });
}
```

## 4. Mini Project: Build Your Own Multi-View App

Create a small **multi-view web app** using HTML, CSS, and JavaScript. You'll use display toggling and DOM manipulation to simulate switching between different pages — just like in real apps (e.g., Instagram or Notion).

Your app must include the following three views:

#### 1. Home View

- Shows a welcome message
- Includes navigation buttons to switch to other views

#### 2. Todo View

- Has a form to add todo items (an input and a "+" button)
- Shows the list of added todos
- Stores todos using localStorage

#### 3. Fun Fact View

 When this view is opened, display a random fun fact (you can hardcode 3– 5 facts in an array)

### **Technical Requirements**

- Use only one HTML page
- Use three <div> s, one for each view, and show/hide using style.display or CSS classes
- Use JavaScript to:
  - Handle navigation button clicks
  - Update the content dynamically (e.g., show todos, show random fun fact)
  - Save and retrieve todos from localStorage

## **Bonus (Optional Challenges)**

- Add a "Delete" button next to each todo item
- VI Use classList and CSS transitions to make views fade in/out
- Add a simple settings page to let users change the background color

## 5. Extension Challenge (Optional/Homework)

- Add delete note feature
- Allow editing notes
- Add view transitions (e.g. fade in/out)

## 6. Recap & Q&A (10 minutes)

- What's the benefit of switching views on one page?
- · How can we organize our app logic by view?
- How does this connect to real apps like Instagram or Notion?

# Key Takeaways

- display: none and block control visibility
- Apps don't always need multiple HTML pages
- View-based design helps structure more complex apps

Next lesson: we'll explore **storing & editing dynamic data**, like building a full task manager or to-do app!