Project Description — SPA (Single Page Application)

Project Title:

School SPA – Student & Teacher Portal

Overview:

This project is a **Single Page Application (SPA)** designed to provide a unified platform for both **students** and **teachers** within a school environment. It enables seamless interaction through an easy-to-use interface where students can submit their assignments, and teachers can provide feedback, all within one web page — without requiring page reloads.

Technology Used:

- **HTML5** – for structuring the webpage
- **CSS3** – for styling and layout design
- **JavaScript** – for dynamic section switching (SPA functionality)

Core Features:

🧑‍🎓 Student Dashboard

- Allows students to **enter their name, course, and assignment details**
- Provides a clean interface to **submit assignments**
- Styled with a blue-themed background for clarity and easy readability

👩‍🏫 Teacher Dashboard

- Enables teachers to **view and manage student details**
- Provides a section to **submit feedback** for students
- Designed with an orange-themed layout to distinguish it from the student section

⚙️ Navigation

- A simple **navigation bar** lets users switch between Student and Teacher sections dynamically using JavaScript.
- The active section appears instantly, giving a **smooth single-page experience** without reloading.

🧭 Responsive Layout

- Built with flexible design and padding to ensure the portal is **mobile-friendly** and looks consistent across different devices.

🧱 Footer Section

- Contains copyright

- Fixed at the bottom of the page for a professional, polished look

Functionality Description:

The application uses a **JavaScript function showSection()** to display only the relevant section based on the user's selection (Student or Teacher). This method hides all other sections and dynamically activates the chosen one using CSS class toggling, demonstrating a simple but effective **SPA logic**.

Advantages:

- Lightweight and easy to load

- User-friendly interface for both students and teachers

- Eliminates page reloads through dynamic section switching

- Serves as a good base for expanding into a full web application with backend integration

Future Enhancements:

- Adding **login authentication** for both roles

- Connecting to a **database** for storing assignments and feedback

- Including **grade tracking and notification systems**

- Implementing **profile pictures and course management** options