**Project Report: Student Timetable Viewer Website**

**🔷 Project Title:**

**Student Timetable Viewer**

**🔷 Objective:**

To design a responsive and interactive webpage that displays a student’s weekly timetable and allows filtering based on either the day of the week or a subject. This enhances time management and quick access to specific information.

**🔷 Technologies Used:**

* **HTML5** – for the structure of the timetable and webpage.
* **CSS3** – for styling, color coding subjects, and layout formatting.
* **JavaScript** – to implement dynamic filtering functionality.

**🔷 Features:**

1. **Clean Layout:**  
   A clear table format displays the schedule from Monday to Friday and class slots from 8:00 AM to 12:00 PM.
2. **Color Coded Subjects:**  
   Each subject is color-coded to help users easily distinguish between subjects.
3. **Filter Dropdown Menu:**  
   A dropdown allows users to:
   * Filter by **day** (e.g., Monday, Tuesday, etc.)
   * Filter by **subject** (e.g., Math, Science, etc.)
4. **Responsive Interaction:**  
   On selecting a filter, the table updates in real time to show only relevant rows, providing an efficient and user-friendly experience.

**🔷 Code Highlights:**

**✅ HTML:**

* Uses the <table> tag to organize timetable data.
* Each <tr> (table row) has a data-day attribute for filtering days.
* Class names like math, science etc., are applied to <td> (cells) for subject-based filtering.

**✅ CSS:**

* Background colors differentiate subjects.
* Table and header cells are styled for visual clarity and consistency.
* Responsive design using percentage-based widths and padding.

**✅ JavaScript:**

* The function applyFilter() checks the dropdown value.
* It hides or shows rows based on selected day or subject using:

javascript

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[...row.children].some(cell => cell.classList.contains(filter))

**🔷 How It Works:**

1. User selects a filter option (e.g., "Math" or "Wednesday").
2. JavaScript identifies matching rows using subject class or data-day.
3. Only relevant rows remain visible; others are hidden dynamically.

**🔷 Benefits:**

* **Efficiency:** Helps students quickly locate specific classes.
* **User Experience:** Intuitive interface with minimal clicks.
* **Maintainability:** Clean and modular code, easy to extend with more subjects or time slots.

**🔷 Suggestions for Future Improvements:**

* Add a **print** or **PDF export** option.
* Include **hover effects** or subject descriptions.
* Make the filter **multi-select**.
* Make it **mobile responsive** with media queries.

**Conclusion:**

The "Student Timetable Viewer" project successfully demonstrates how web technologies can be combined to create practical, user-friendly educational tools. It emphasizes clean design, interactivity, and ease of access to information.

**OUTPUT**

