**DSA Activity Selection Project**

**Project Overview**

This project demonstrates the **Activity Selection Problem** using **HTML**, **CSS**, and **JavaScript**. The Activity Selection Problem is a classic **Greedy Algorithm** problem where the goal is to select the maximum number of activities that don't overlap in time.

**Features**

* Input activities with start and end times.
* Visual representation of activities.
* Algorithm implementation to calculate the maximum number of non-overlapping activities.
* Display of selected activities.

**Technologies Used**

* **HTML**: Structure of the web page.
* **CSS**: Styling and layout.
* **JavaScript**: Implementation of the Activity Selection algorithm and interactivity.

**How It Works**

1. **Input Activities**: The user provides a list of activities with their start and end times.
2. **Sorting**: The activities are sorted based on their end times.
3. **Selection**: Using the Greedy Algorithm, activities are selected such that no two activities overlap.
4. **Output**: The selected activities are displayed on the screen.

**Files**

* index.html: Contains the structure of the web page.
* style.css: Contains the styling for the web page.
* script.js: Contains the logic for the Activity Selection Problem.

**Usage**

1. Clone or download the repository.
2. Open index.html in a web browser.
3. Enter activities and click on the "Calculate" button to see the result.

**Example**

**Input**

| **Activity** | **Start Time** | **End Time** |
| --- | --- | --- |
| A | 1 | 2 |
| B | 3 | 4 |
| C | 0 | 6 |
| D | 5 | 7 |
| E | 8 | 9 |

**Output**

Selected Activities: A, B, E

**Future Enhancements**

* Allow users to upload activities via a file.
* Add animations for better visualization.
* Extend support for other greedy algorithm problems.

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