**CS-2042- Operating Systems**

**Name : Primesh Pathirana**

**Index No : 170425X**

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**Detailed description of the idea**

Shortest Job First (SJF) is my chosen algorithm. I intend to simulate the algorithm as a web application. I would explicitly simulate the algorithm using five processes. The user can input customized processes. The following steps would explain the basic structure of the simulation.

* User inputs a customized process.
* Process details are actively displayed in a table.
* Average turnaround time and average waiting time are calculated and displayed.
* Process scheduling is displayed in a gantt chart.

**Gantt chart**

* Scheduled order is displayed with time.
* Provides an interactive and self explanatory solution.

**Used Technology**

Program is developed as a web app using HTML, CSS and javascript.

**Thinking out of the box**

Here I would add another scheduling algorithm into my program and compare its results with SJFs performance. The user can get a better understanding about SJF algorithm through this.