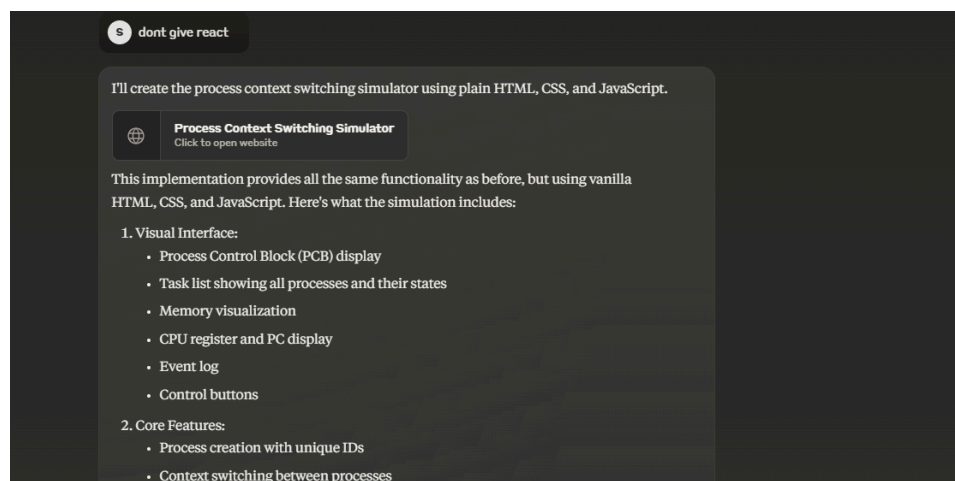


## Claude-Prompt-1(also given image of the simulation )



## Claude-Prompt-2:



## Claude-Prompt-3

S

how to run this and what the buttons do and how to do context switch

Let me explain how to run the simulation and how to perform context switching step by step.

How to Run:

1. Copy the entire HTML code
2. Save it as `index.html` on your computer
3. Simply double-click the file to open it in your web browser

Let's walk through how to use the simulator:


1. Loading Processes:
  - Click "Load Process" button to create a new process
  - Each new process gets a unique Process ID (PID)
  - When you create the first process, it automatically becomes the active process
  - Initially, processes start in "READY" state, and the active process moves to "RUNNING" state

## Claude-Prompt-4

S

after loading two process and save context of 1 it starts running 2 and keeps 1 in waiting. when 2 is executed(after pressing advance clock) and then press save then it show no ready process available.

Ah yes, this is a bug in the process state management. Let me fix the code to properly handle process states during context switching.



**Process Context Switching Simulator - Fixed State Management**  
Click to open website

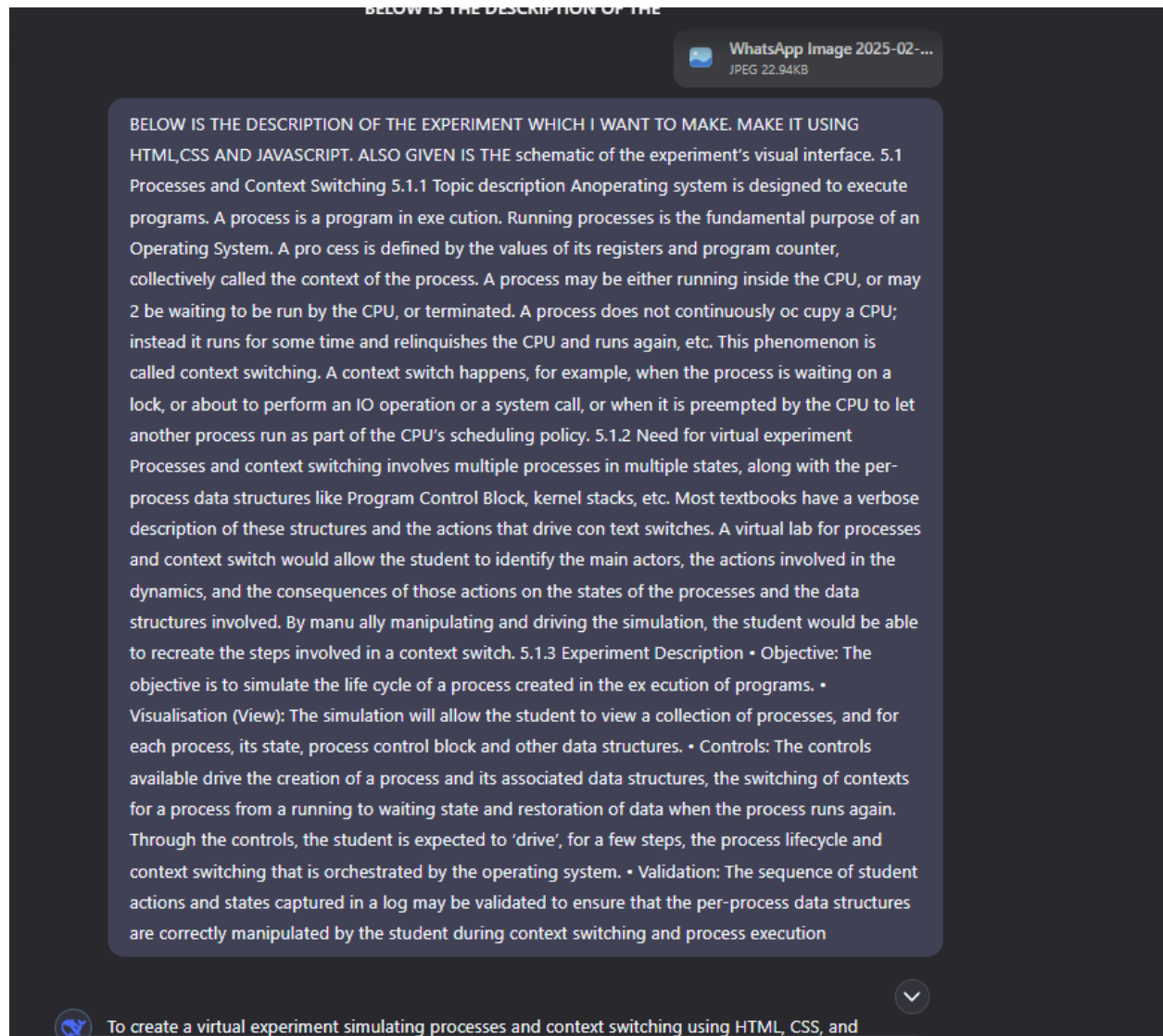
Key changes made:

1. Changed process state management:
  - When saving context, process now goes to 'READY' state instead of 'WAITING'
  - This allows processes to be scheduled again in a round-robin fashion
2. Improved context switching:
  - Now implements a simple round-robin scheduling
  - After saving context, moves to the next process in the list
  - Cycles through all processes

Now you can:

1. Load multiple processes

## DeepSeek-Prompt-1(also included image of the simulation)



## Deepseek-prompt-2(after this deepseek did not respond)

i want exactly what the image has.



Thought for 26 seconds ^

Alright, the user wants the virtual experiment to look exactly like the provided image. Let me start by understanding what the image contains. From the description, the image shows a layout labeled "PCB of active process" with sections like Memory, Log, CPU, Registers, Task List and Process States, PC, Controls, Load Process, Save Process, and Advance Clock.

First, I need to map these elements into a web interface using HTML and CSS. The main areas are PCB details, CPU, Registers, Task List, Controls, and Log. The original code provided by the assistant had a different structure, so adjustments are needed.

The PCB (Process Control Block) should display details of the active process. The CPU section might show the currently running process. Registers need to be visualized, perhaps as a set of boxes with values. The Task List should show all