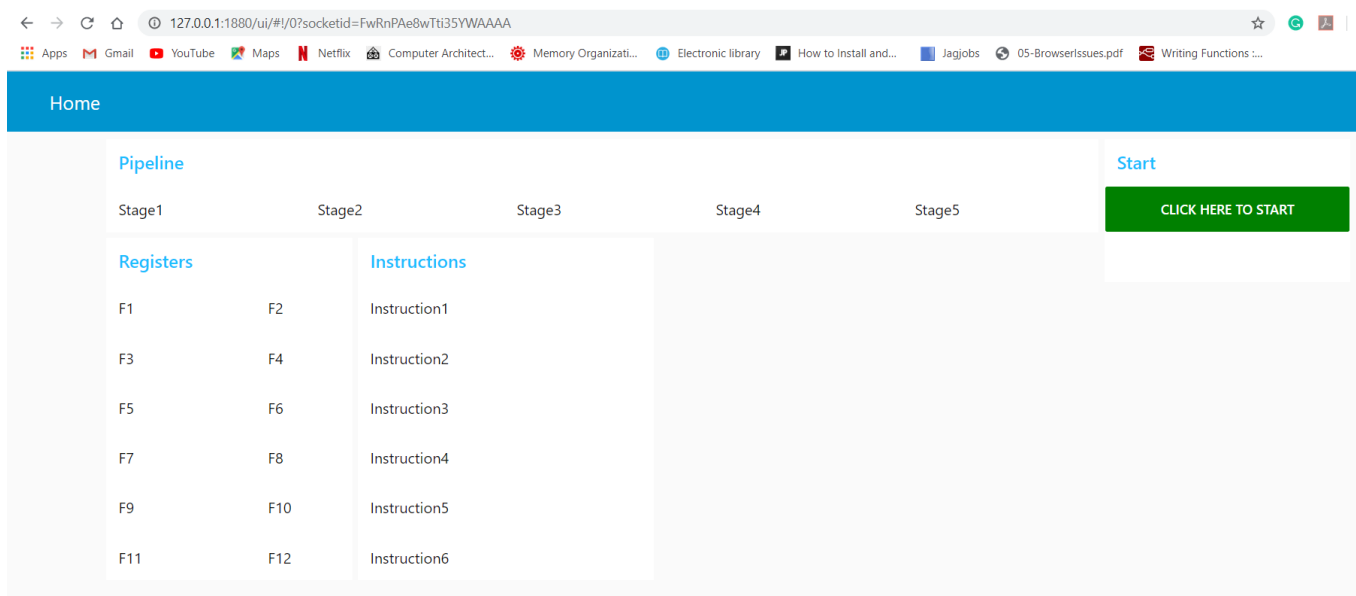


Project Report

5-Stage Pipeline Visualization

For the project phase 3, I created 5-stage pipeline visualization using Node Red & Dashboard. This project report contains the information regarding the pipeline visualization execution provided with the help of screen images. Following are the contents of the projects:

1. Flow.json file(attached in the zip file)
 2. Readme file(attached in the zip file)
- a. Dashboard:
- a. The dashboard contains of 4 parts
 - i. START Widget: To start the execution
 - ii. Instruction Stage Status
 - iii. Register
 - iv. Instruction



- b. Dashboard Initialized: Values for registers and Instructions are displayed after clicking the Start Button

127.0.0.1:1880/ui/#/0?socketid=FwRnPAe8wTti35YVAAAA

Apps Gmail YouTube Maps Netflix Computer Architect... Memory Organizati... Electronic library How to Install and... Jagjobs 05-BrowserIssues.pdf Writing Functions ...

Home

Pipeline

Stage1 Stage2 Stage3 Stage4 Stage5

Start

CLICK HERE TO START

Registers

F1	10	F2	20
F3	40	F4	30
F5	100	F6	2
F7	8	F8	8
F9	0	F10	0
F11	0	F12	0

Instructions

Instruction1 **ADD F9,F1,F2**

Instruction2 **SUB F10,F3,F4**

Instruction3 **DIV F11,F5,F6**

Instruction4 **MUL F12,F7,F8**

Instruction5 **MOV F1,F9**

Instruction6 **LD F12,10**

- c. Dashboard at the end of execution: After every instruction has executed, LD is the last one in the pipeline.

Home

Pipeline

Stage1 Stage2 Stage3 Stage4 Stage5 **LD F12,10**

Start

CLICK HERE TO START

Registers

F1	30	F2	20
F3	40	F4	30
F5	100	F6	2
F7	8	F8	8
F9	30	F10	10
F11	50	F12	10

Instructions

Instruction1 **ADD F9,F1,F2**

Instruction2 **SUB F10,F3,F4**

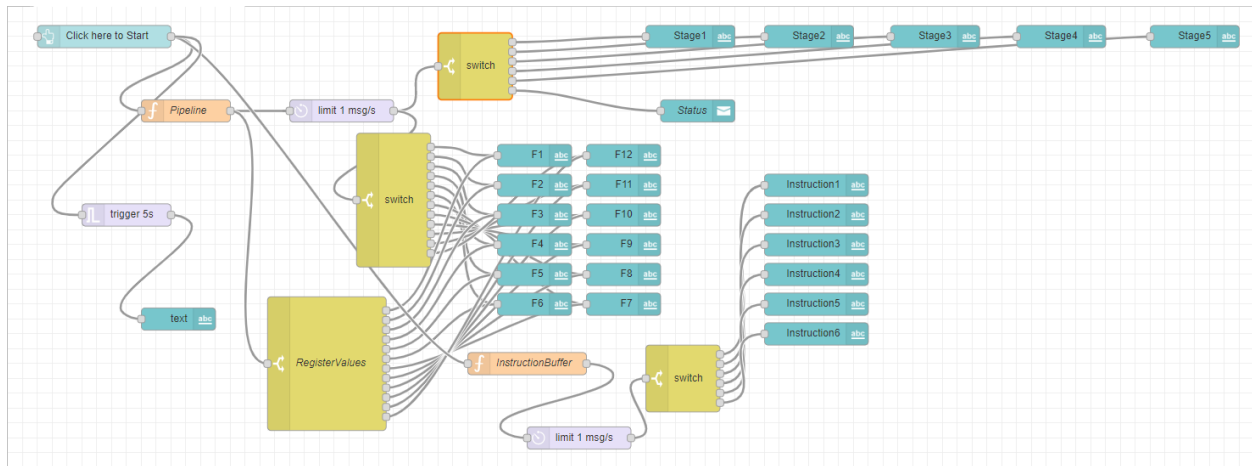
Instruction3 **DIV F11,F5,F6**

Instruction4 **MUL F12,F7,F8**

Instruction5 **MOV F1,F9**

Instruction6 **LD F12,10**

d. Flow.json:



e. Nodes Used: Triggers, Functions, Switch, Delay, Text, Button.