
PRODUCER/CONSUMER SIMULATION PROGRAM REPORT

Students Names/IDs:

Name	ID
Mustafa Kamel Nofal	21011366
Yousef Mohamed Mohamed Taman	21011621
Ahmed Hesham Emara	21010202
Mohamed Rezaq Mohamed Ibrahim	21011134

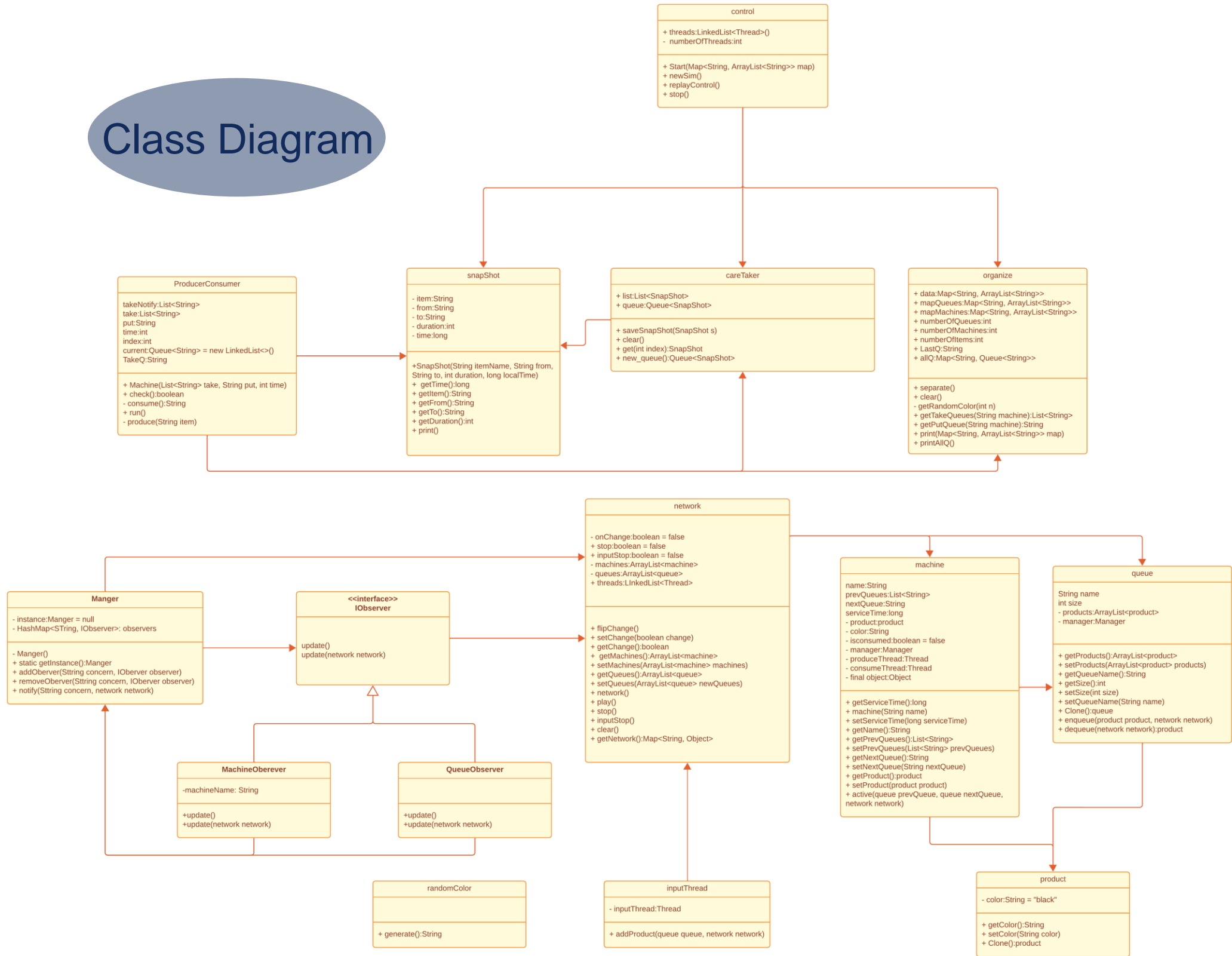
How to Run Application

- At first you must open spring boot application and run it- open the Vue project using vs code and run it using “npm run serve” and open the link

Design Patterns Applied

- 1- Concurrency Pattern.
- 2-SnapShot pattern.
- 3-Observer Pattern.
- 4-Marker Interface.
- 5- Singleton Pattern.

Class Diagram



Sample Runs

+Machine

+Queue

Connect

Run

Stop

Replay

Input
Stop

Clear



+Machine

+Queue

Connect

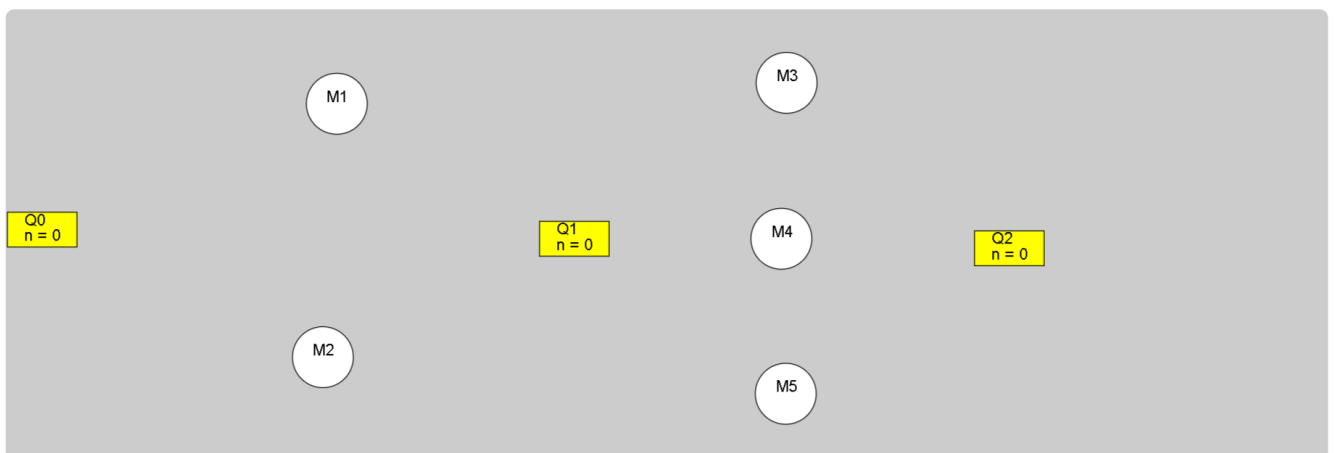
Run

Stop

Replay

Input
Stop

Clear



+Machine

+Queue

Connect

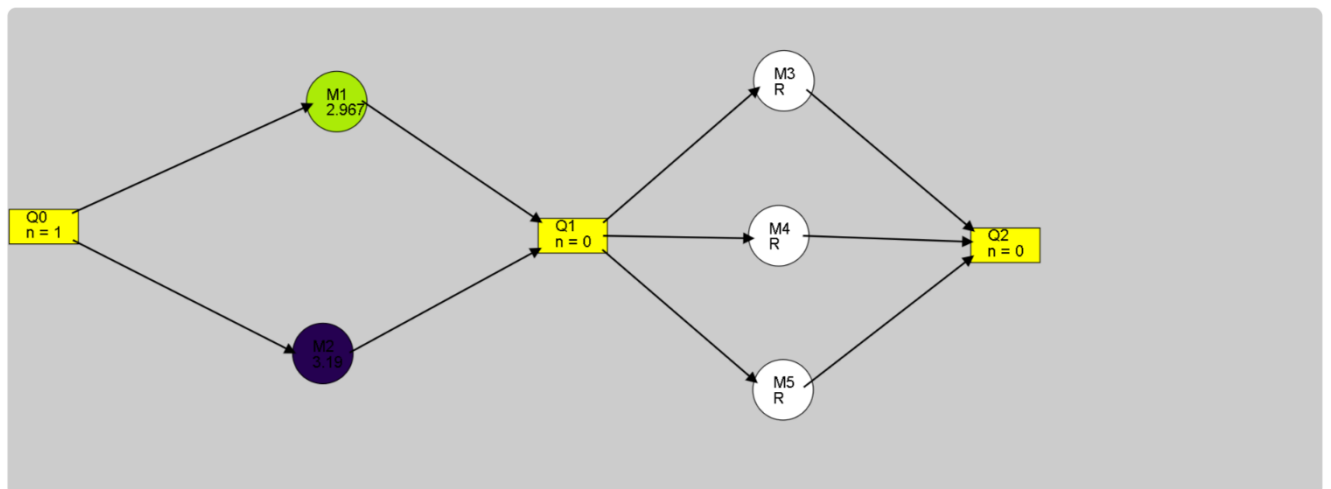
Run

Stop

Replay

Input
Stop

Clear



+Machine

+Queue

Connect

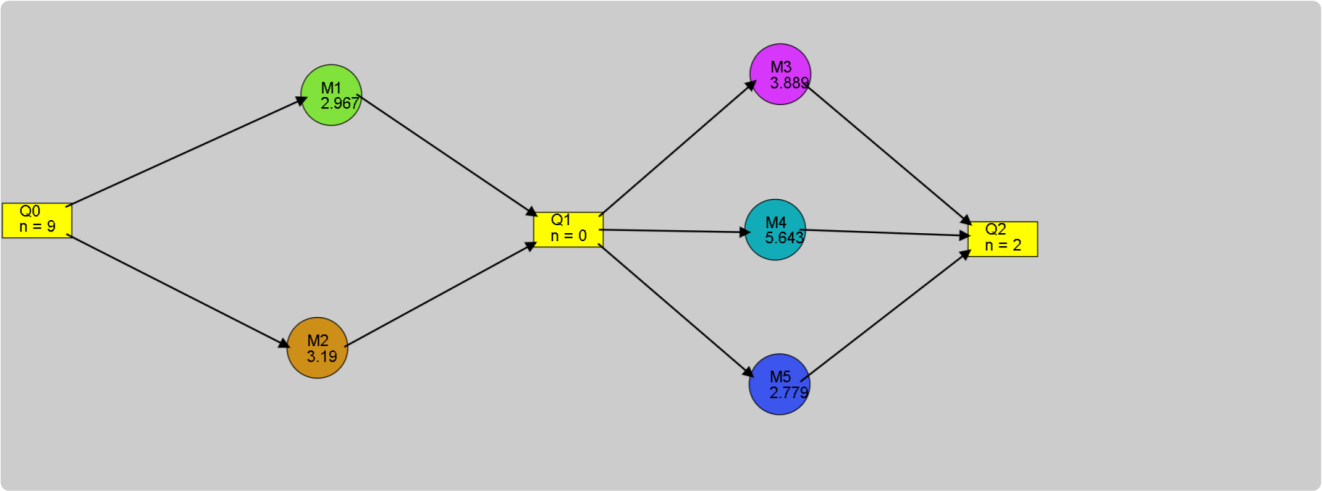
Run

Stop

Replay

Input
Stop

Clear



+Machine

+Queue

Connect

Run

Stop

Replay

Input
Stop

Clear

