

Capstone Submission

GitHub repo url: <https://github.com/Krishna-336/Final-project.git>

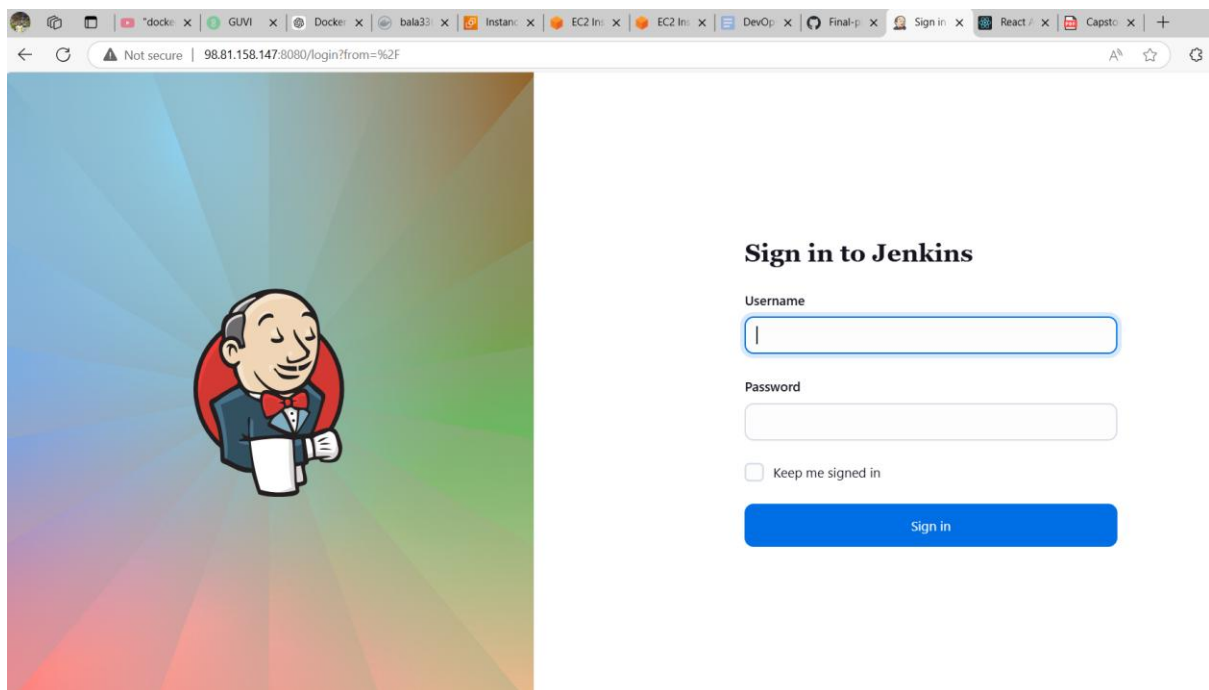
Deployed site url: <http://54.88238.152:8085>

Jenkins url: <http://98.81.158.147:8080>

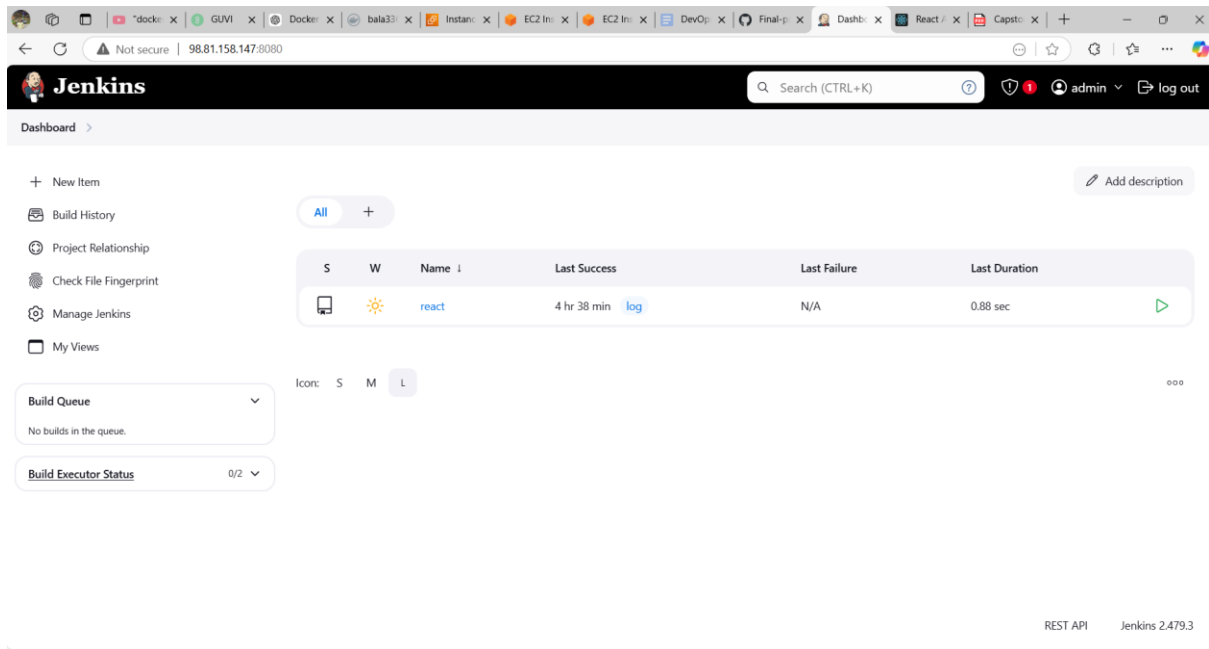
Docker Image Name: bala336/prod:v2

Screenshots

Jenkins login page:



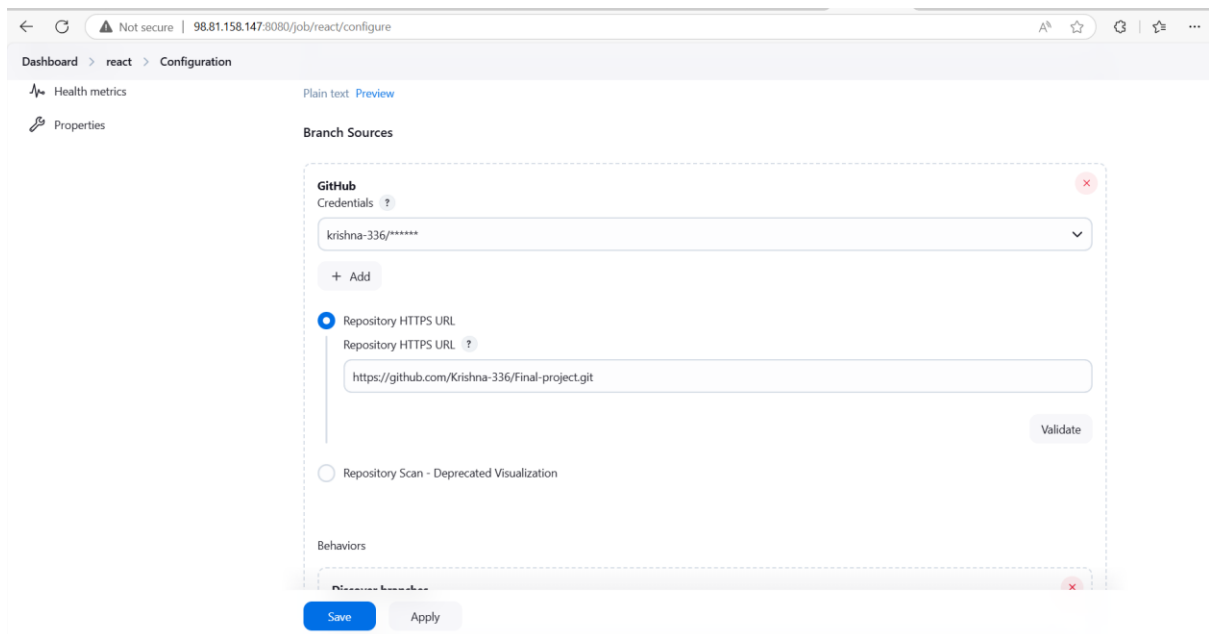
Jenkins Job page:



The screenshot shows the Jenkins Dashboard interface. The top navigation bar includes the Jenkins logo, a search bar, and user information (admin, log out). The left sidebar contains links to 'New Item', 'Build History', 'Project Relationship', 'Check File Fingerprint', 'Manage Jenkins', and 'My Views'. The main content area displays a table of builds for the 'react' job. The table has columns for 'S' (Success), 'W' (Warning), 'Name', 'Last Success', 'Last Failure', and 'Last Duration'. A single build is listed with a success status, a duration of 4 hr 38 min, and a last success time of 0.88 sec. Below the table, there are sections for 'Build Queue' (No builds in the queue) and 'Build Executor Status' (0/2). The bottom right corner shows 'REST API' and 'Jenkins 2.479.3'.

S	W	Name	Last Success	Last Failure	Last Duration
		react	4 hr 38 min log	N/A	0.88 sec

Jenkins configuration:



The screenshot shows the Jenkins Configuration page for the 'react' job. The page has a sidebar with 'Health metrics' and 'Properties'. The main content area is titled 'Branch Sources' and contains a 'GitHub' section. The 'GitHub' section has a 'Credentials' dropdown menu with 'krishna-336/*****' selected. Below this is a '+ Add' button. The 'Repository HTTPS URL' section has a text input field with the URL 'https://github.com/Krishna-336/Final-project.git' and a 'Validate' button. The 'Repository Scan - Depreciated Visualization' section is currently unselected. At the bottom, there are 'Save' and 'Apply' buttons.

Jenkins Multibranch pipeline:

The screenshot shows the Jenkins Multibranch Pipeline dashboard for a job named 'react'. The left sidebar contains a list of actions: Status, Configure, Scan Repository Now, Scan Repository Log, Multibranch Pipeline Events, Delete Multibranch Pipeline, Build History, Project Relationship, Check File Fingerprint, GitHub, Rename, Pipeline Syntax, and Credentials. The main content area displays the 'react' job status, including a table of branches and a list of build history.

S	W	Name	Last Success	Last Failure	Last Duration
✓	☁	dev	3 hr 26 min #14	3 hr 35 min #13	12 sec
✓	☁	main	3 hr 0 min #2	4 hr 51 min #1	11 sec

Icon: S M L

Dev branch Status:

The screenshot shows the Jenkins Dev branch status page. The left sidebar contains a list of actions: Status, Changes, Build Now, View Configuration, Stages, GitHub, and Pipeline Syntax. The main content area displays the 'dev' branch status, including a list of build history and a section for Permalinks.

Full project name: react/dev

Permalinks

- Last build (#14), 3 hr 27 min ago
- Last stable build (#14), 3 hr 27 min ago
- Last successful build (#14), 3 hr 27 min ago
- Last failed build (#13), 3 hr 36 min ago
- Last unsuccessful build (#13), 3 hr 36 min ago
- Last completed build (#14), 3 hr 27 min ago


Builds


Filter


Today


- ✓ #14 2:39 PM
- ✗ #13 2:30 PM
- ✗ #12 2:27 PM
- ✗ #11 2:18 PM
- ✗ #10 2:17 PM


Jenkins Dashboard > react > dev > #14


Status  #14 (Jan 28, 2025, 2:39:54 PM) [Add description](#) [Keep this build forever](#)


 Changes


 Console Output


 Edit Build Information


 Delete build '#14'


 Timings


 Git Build Data


 Pipeline Overview


 Pipeline Console


 Restart from Stage


 Replay

 Pipeline Steps


 Workspaces

 Previous Build


 Started by user [admin](#) Started 3 hr 27 min ago Took 12 sec

 This run spent:

- 16 ms waiting;
- 12 sec build duration;
- 12 sec total from scheduled to completion.

 **Revision:** [dc8e405987dca436ecd97c2ba8684f2cde93f942](#)
Repository: [https://github.com/Krishna-336/Final-project.git](#)

- dev

 No changes.

Console Output

[Download](#)[Copy](#)[View as plain text](#)

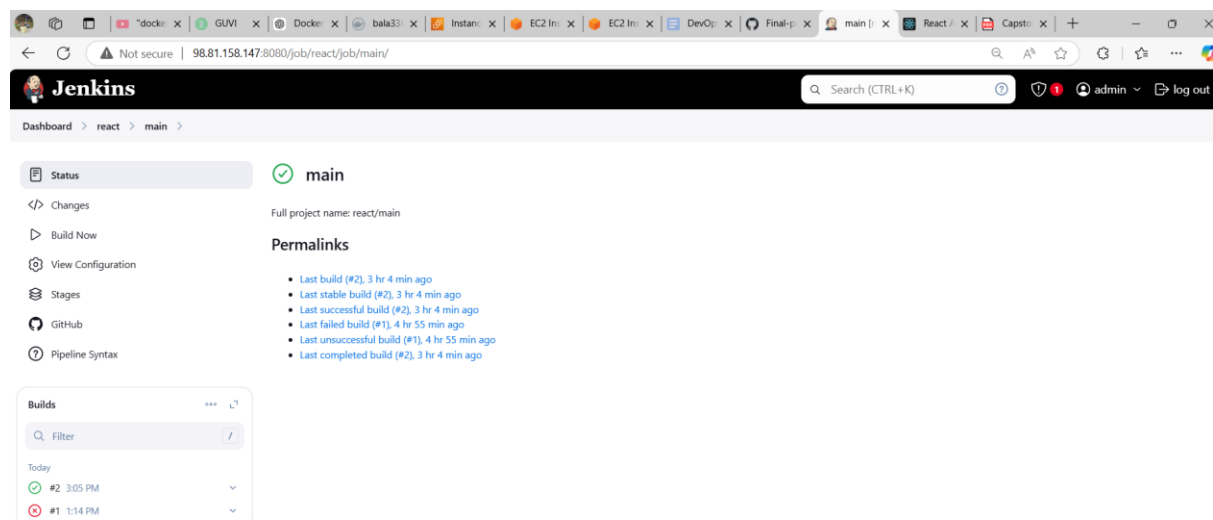
```
Started by user admin
14:39:54 Connecting to https://api.github.com using krishna-336/*****
Obtained Jenkinsfile from dc8e405987dca436ecd97c2ba8684f2cde93f942
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in /var/lib/jenkins/workspace/react_dev
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Declarative: Checkout SCM)
[Pipeline] checkout
The recommended git tool is: NONE
using credential 613e691b-29eb-4dd9-868b-2796ec853015
> git rev-parse --resolve-git-dir /var/lib/jenkins/workspace/react_dev/.git # timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url https://github.com/Krishna-336/Final-project.git # timeout=10
Fetching without tags
Fetching upstream changes from https://github.com/Krishna-336/Final-project.git
> git --version # timeout=10
> git --version # 'git version 2.43.0'
using GIT_ASKPASS to set credentials
> git fetch --no-tags --force --progress -- https://github.com/Krishna-336/Final-project.git +refs/heads/dev:refs/remotes/origin/dev #
timeout=10
Checking out Revision dc8e405987dca436ecd97c2ba8684f2cde93f942 (dev)
```

```
[Pipeline] { (Deploy to Server)
[Pipeline] script
[Pipeline] {
[Pipeline] echo
Deploying to the server
[Pipeline] sh
+ chmod +x deploy.sh
[Pipeline] sh
+ ./deploy.sh
Creating network "react_dev_default" with the default driver
Creating react_dev_web_1 ...
Creating react_dev_web_1 ... done
[Pipeline] }
[Pipeline] // script
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Declarative: Post Actions)
[Pipeline] echo
Build and deployment succeeded!
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline

GitHub has been notified of this commit's build result

Finished: SUCCESS
```

Main branch Status:



The screenshot shows the Jenkins web interface in a browser. The address bar indicates the URL is `98.81.158.147:8080/job/react/job/main/`. The page title is "Jenkins". The breadcrumb navigation shows "Dashboard > react > main". The main content area displays the status of the "main" branch with a green checkmark icon. Below the status, there is a "Permalinks" section with a list of build links: "Last build (#2), 3 hr 4 min ago", "Last stable build (#2), 3 hr 4 min ago", "Last successful build (#2), 3 hr 4 min ago", "Last failed build (#1), 4 hr 55 min ago", "Last unsuccessful build (#1), 4 hr 55 min ago", and "Last completed build (#2), 3 hr 4 min ago". On the left sidebar, there is a "Builds" section with a filter input and a list of builds: "#2 3:05 PM" (successful) and "#1 1:14 PM" (failed).

Jenkins

Dashboard > react > main > #2

Status ✓ #2 (Jan 28, 2025, 3:05:11 PM) [Add description](#) [Keep this build forever](#)

Changes

Console Output

Edit Build Information

Delete build #2

Timings

Git Build Data

Pipeline Overview

Pipeline Console

Restart from Stage

Replay

Pipeline Steps

Workspaces

Previous Build

Started by user [admin](#)

This run spent:

- 19 ms waiting:
- 11 sec build duration:
- 11 sec total from scheduled to completion.

Revision: [6c97dd6bbe7df4e202d810d60e7e154104d9d633](#)

Repository: <https://github.com/Krishna-336/Final-project.git>

- main

Changes

- Update mode ([details](#) / [githubweb](#))
- Update Jenkinsfile ([details](#) / [githubweb](#))

REST API Jenkins 2.479.3

✓ Console Output

[Download](#)[Copy](#)[View a](#)

```
Started by user admin
15:05:11 Connecting to https://api.github.com using krishna-336/*****
Obtained Jenkinsfile from 6c97dd6bbe7df4e202d810d60e7e154104d9d633
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in /var/lib/jenkins/workspace/react_main
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Declarative: Checkout SCM)
[Pipeline] checkout
The recommended git tool is: NONE
using credential 613e691b-29eb-4dd9-868b-2796ec853015
> git rev-parse --resolve-git-dir /var/lib/jenkins/workspace/react_main/.git # timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url https://github.com/Krishna-336/Final-project.git # timeout=10
Fetching without tags
Fetching upstream changes from https://github.com/Krishna-336/Final-project.git
> git --version # timeout=10
> git --version # 'git version 2.43.0'
using GIT_ASKPASS to set credentials
> git fetch --no-tags --force --progress -- https://github.com/Krishna-336/Final-project.git +refs/heads/main:refs/remotes/origin/main # timeout=10
Checking out Revision 6c97dd6bbe7df4e202d810d60e7e154104d9d633 (main)
> git config core.sparsecheckout # timeout=10
> git checkout -f 6c97dd6bbe7df4e202d810d60e7e154104d9d633 # timeout=10
Commit message: "Update Jenkinsfile"
> git rev-list --no-walk 2d761cc94cd3e8992615b6bc05e6d6e10e4b3e24 # timeout=10
```

```

[Pipeline] { (Deploy to Server)
[Pipeline] script
[Pipeline] {
[Pipeline] echo
Deploying to the server
[Pipeline] sh
+ chmod +x deploy.sh
[Pipeline] sh
+ ./deploy.sh
Creating network "react_main_default" with the default driver
Creating react_main_web_1 ...
Creating react_main_web_1 ... done
[Pipeline] }
[Pipeline] // script
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Declarative: Post Actions)
[Pipeline] echo
Build and deployment succeeded!
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline

GitHub has been notified of this commit's build result

Finished: SUCCESS

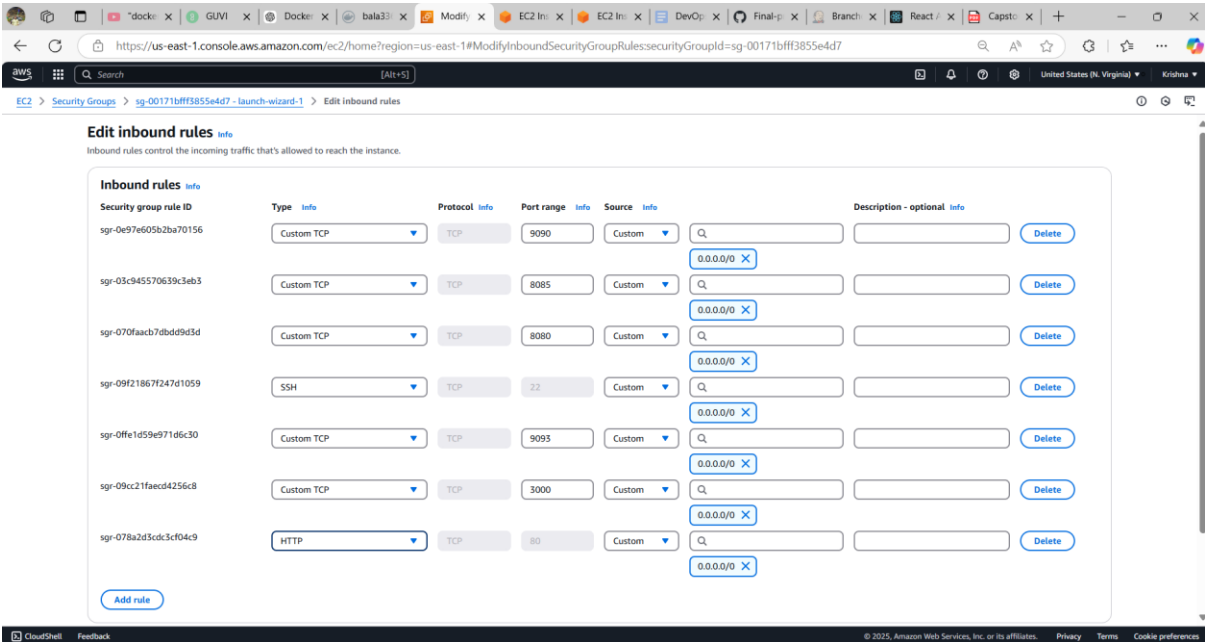
```

AWS EC2 console:

The screenshot shows the AWS Management Console for the 'us-east-1' region. The left sidebar contains navigation links for Dashboard, EC2 Global View, Events, Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, Images, AMIs, AMI Catalog, Elastic Block Store, Volumes, Snapshots, Lifecycle Manager, and Network & Security. The main content area is titled 'Instances (2/2)' and shows a table of instances. The table has columns for Name, Instance ID, Instance state, Instance type, Status check, Alarm status, Availability Zone, and Public IP. Two instances are listed: 'Deploy' (Instance ID: i-0b670e25660f62bb9) and 'Monitoring' (Instance ID: i-0762e637b49fd17ea), both in a 'Running' state. Below the table, the 'Monitoring' tab is selected, showing a dashboard with metrics like CPU utilization, Network in/out, and Network packets. The dashboard includes a 'Configure CloudWatch agent' button and a 'Add to dashboard' button.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IP
Deploy	i-0b670e25660f62bb9	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1b	ec2-98-81...
Monitoring	i-0762e637b49fd17ea	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1a	ec2-54-88...

AWS SG configs:



Dockerhub:

Prod Repo: bala336/prod:v2

General

Tags

Builds

Collaborators

Webhooks

Settings

bala336/prod

Last pushed about 3 hours ago

Add a description

Add a category

Tags


This repository contains 2 tag(s).

Tag	OS	Type	Pulled	Pushed
v2		Image	38 minutes ago	3 hours ago
v1		Image	4 hours ago	6 hours ago

[See all](#)

Dev Repo: bala336/dev:v1

[General](#) [Tags](#) [Builds](#) [Collaborators](#) [Webhooks](#) [Settings](#)

bala336/dev 



Last pushed about 4 hours ago

[Add a description](#)   INCOMPLETE

[Add a category](#)   INCOMPLETE

Tags

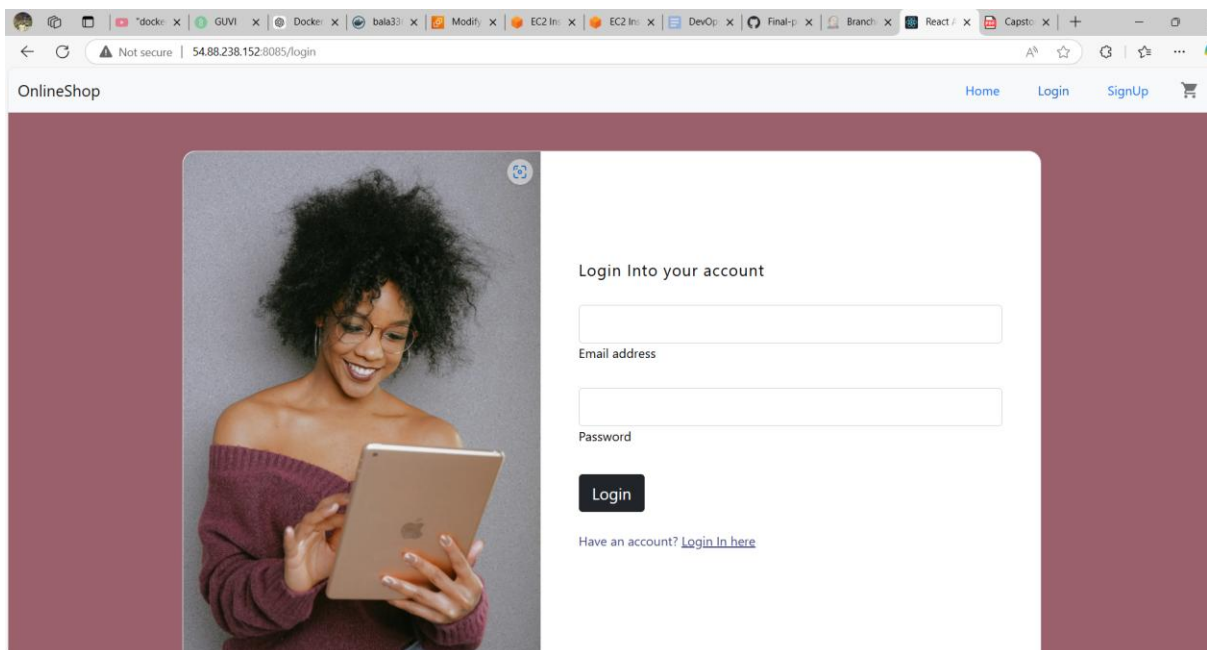
This repository contains 1 tag(s).

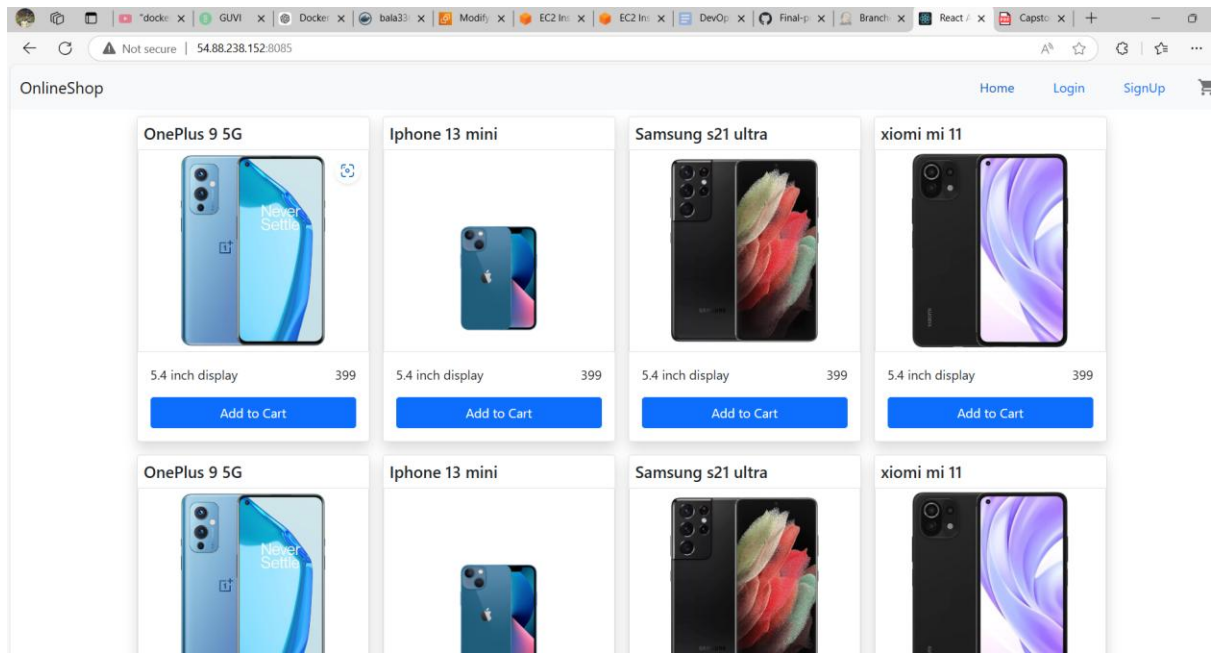
Tag	OS	Type	Pulled	Pushed
 v1		Image	3 hours ago	4 hours ago

[See all](#)

Deployed Site page

URL: <http://54.88238.152:8085>





Monitoring setup:

