Task 4 - Jenkins CI/CD Pipeline with GitHub Webhook

Task Description:

In this task, Jenkins was integrated with GitHub to automatically trigger builds whenever new code is pushed. The Jenkins pipeline was defined using a Jenkinsfile stored in the GitHub repository. Once the GitHub Webhook was configured, every commit triggered an automated build and test process inside Jenkins.
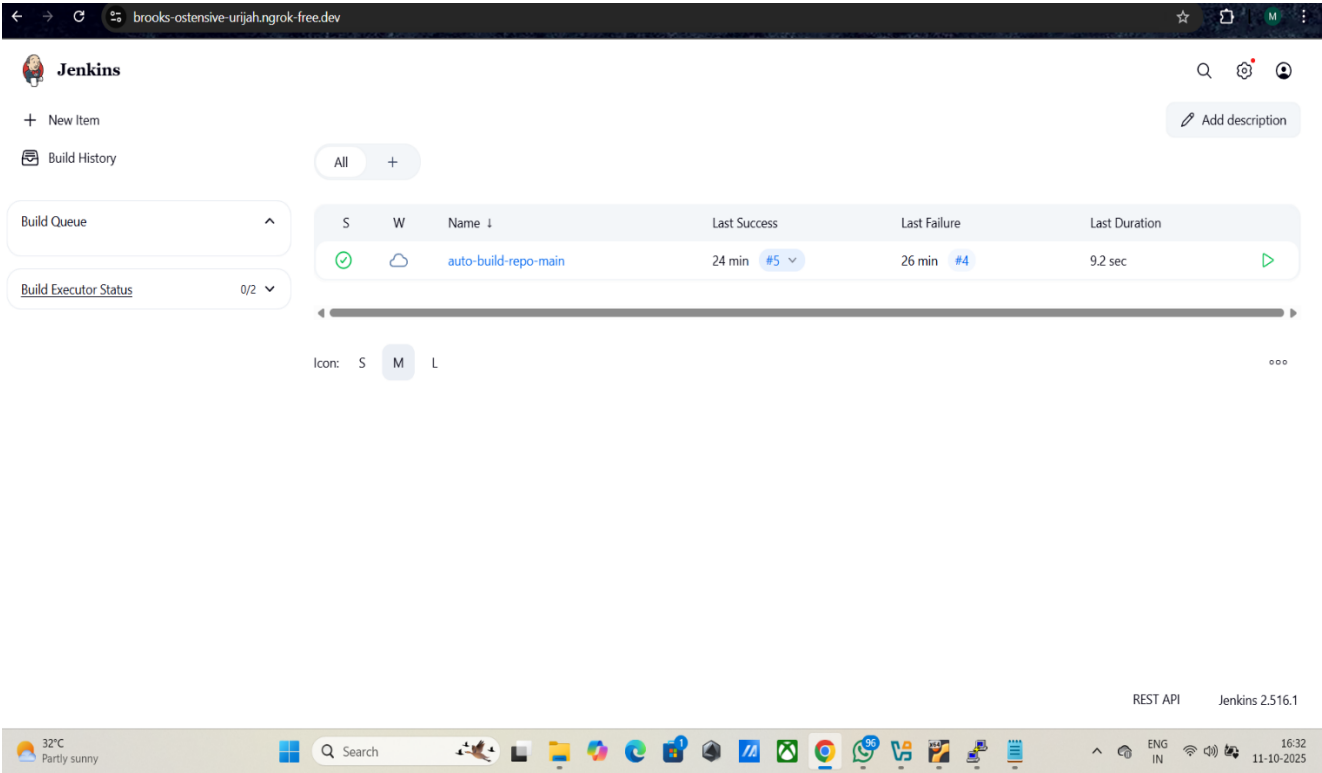
This setup demonstrates Continuous Integration (CI), where code changes are automatically built and verified, ensuring consistency and reliability in deployment pipelines**.**
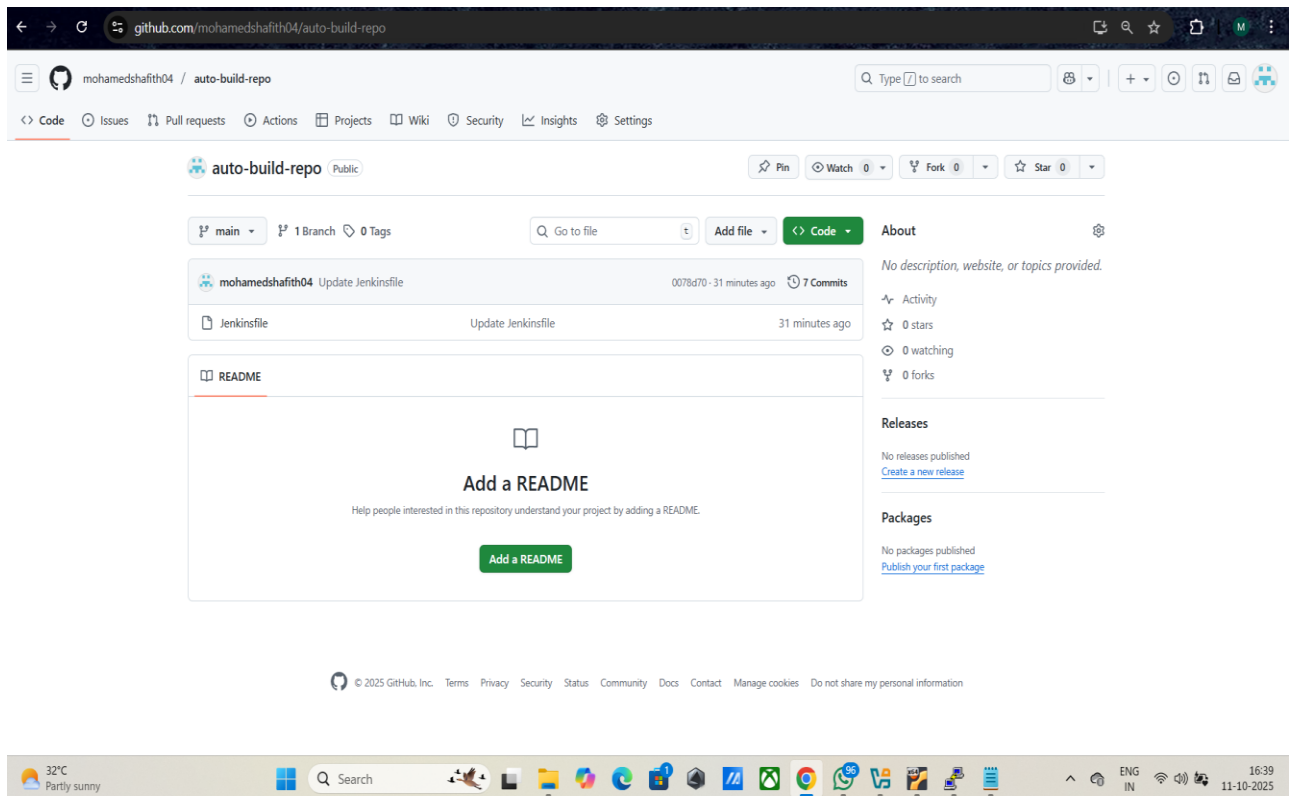
Steps Performed:

1. Created a new Jenkins job and linked it with the GitHub repository.
2. Configured the Jenkins pipeline using a Jenkinsfile from the repository.
3. Set up a GitHub Webhook to trigger the Jenkins build on each code push.
4. Verified successful delivery of the Webhook from GitHub.
5. Monitored Jenkins console output to ensure the build completed successfully
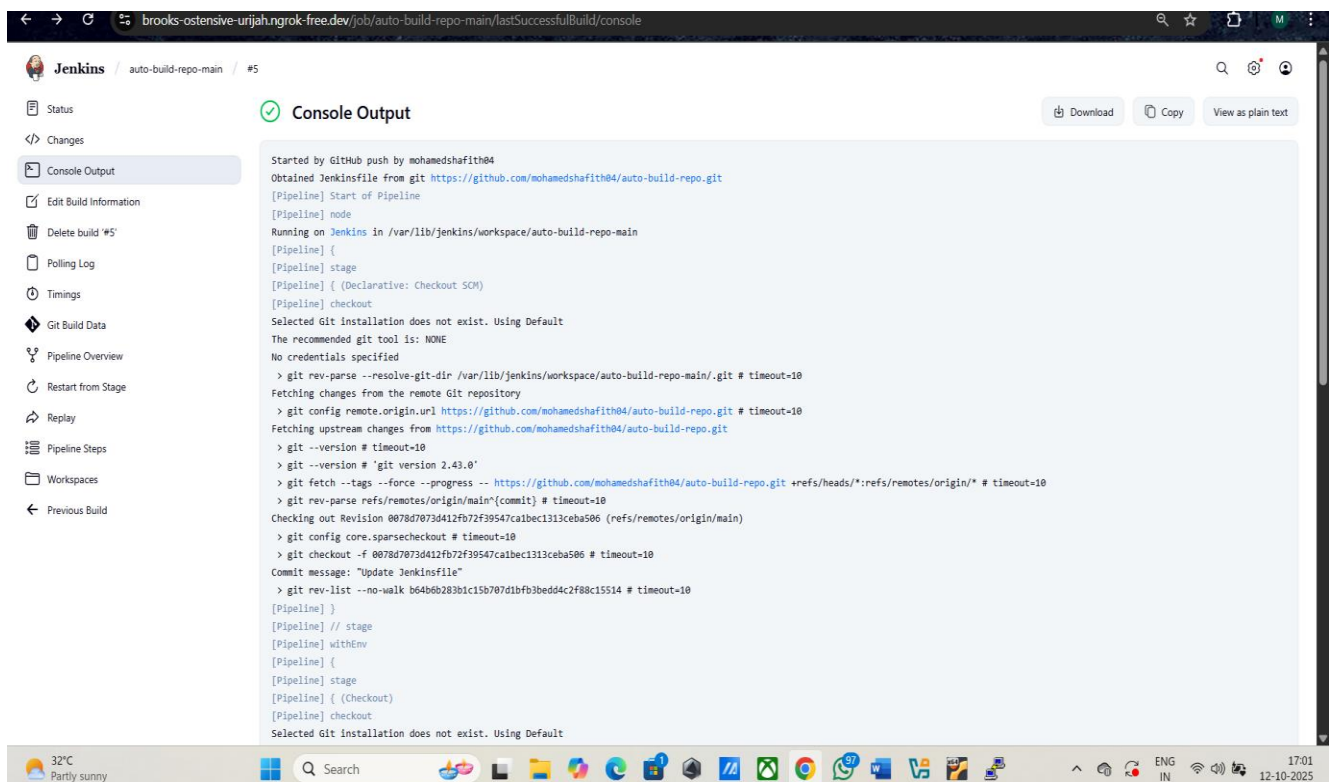
Screenshots:

Screenshot 1: Jenkins dashboard showing the job setup

Screenshot 2: GitHub Webhook delivery (Success)

Screenshot 3: GitHub Webhook delivery (Success)

Jenkins / auto-build-repo-main / #5

```
No credentials specified
> git rev-parse --resolve-git-dir /var/lib/jenkins/workspace/auto-build-repo-main/.git # timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url https://github.com/mohamedshafith04/auto-build-repo.git # timeout=10
Fetching upstream changes from https://github.com/mohamedshafith04/auto-build-repo.git
> git --version # timeout=10
> git --version # 'git version 2.43.0'
> git fetch --tags --force --progress -- https://github.com/mohamedshafith04/auto-build-repo.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> git rev-parse refs/remotes/origin/main^{commit} # timeout=10
Checking out Revision 0078d7073d412fb72f39547ca1bec1313ceba506 (refs/remotes/origin/main)
> git config core.sparsecheckout # timeout=10
> git checkout -f 0078d7073d412fb72f39547ca1bec1313ceba506 # timeout=10
Commit message: "Update Jenkinsfile"
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Build)
[Pipeline] sh
+ echo Building...
Building...
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Test)
[Pipeline] sh
+ echo Running tests...
Running tests...
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```

Offer Letter:

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September 21, 2025

Dear Mohamed Shafith,

We are pleased to offer you the opportunity to join NullClass as an **Cloud Technology Intern 21-09-2025 to 21-10-2025 (1 Months)**

This offer is conditional upon Annexure A: Terms and Conditions attached below . Upon fulfilling the internship criteria, you will embark on a journey of professional growth and real-world experience with us

Congratulations!

Elavarasi,
COO