-------------------------------------- **Output** ---
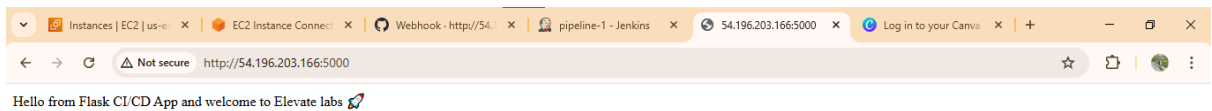
1). Manual Pipeline Build

Once the Jenkinsfile and project were set up, a manual build was triggered to ensure all stages (`build`, `test`, and `deploy`) executed successfully. The application was packaged in a Docker container and deployed.

2) . GitHub Webhook Integration

After confirming the pipeline worked manually:

- A GitHub webhook was added, pointing to Jenkins at /github-webhook/
- Jenkins was configured to trigger builds using GitHub hook trigger for GITScm polling
- This allowed automatic triggering of the Jenkins pipeline on every push to the GitHub repository.