

Codebase

https://github.com/Jyyunrin/group5_softwareengineering

Unit Testing

https://github.com/Jyyunrin/group5_softwareengineering/actions

https://github.com/Jyyunrin/group5_softwareengineering/blob/main/backend/fango/tests.py

CI/CD Pipeline

Pipeline Configurations:

- backend-ci.yml file in .github/workflows for Github Actions
- Jenkinsfile for Jenkins Configuration
- Ngrok to tunnel Jenkins CI to public domain to build upon github push using webhook

Benefits:

- Automated testing upon each push, faster alerts for if something is going wrong
- Clean environments and databases utilized to prevent any live data disruption
- Signals if pull request code passed all tests, good way of checking to see if pull requests are not broken and functionality remains intact

Screenshots:

Github Actions:

The screenshot shows the GitHub Actions interface for the repository 'group5_softwareengineering'. The left sidebar contains navigation links: Code, Issues, Pull requests, Actions (selected), Projects, Wiki, Security, Insights, and Settings. The main area is titled 'All workflows' and shows a list of workflow runs. The table below summarizes the visible runs:

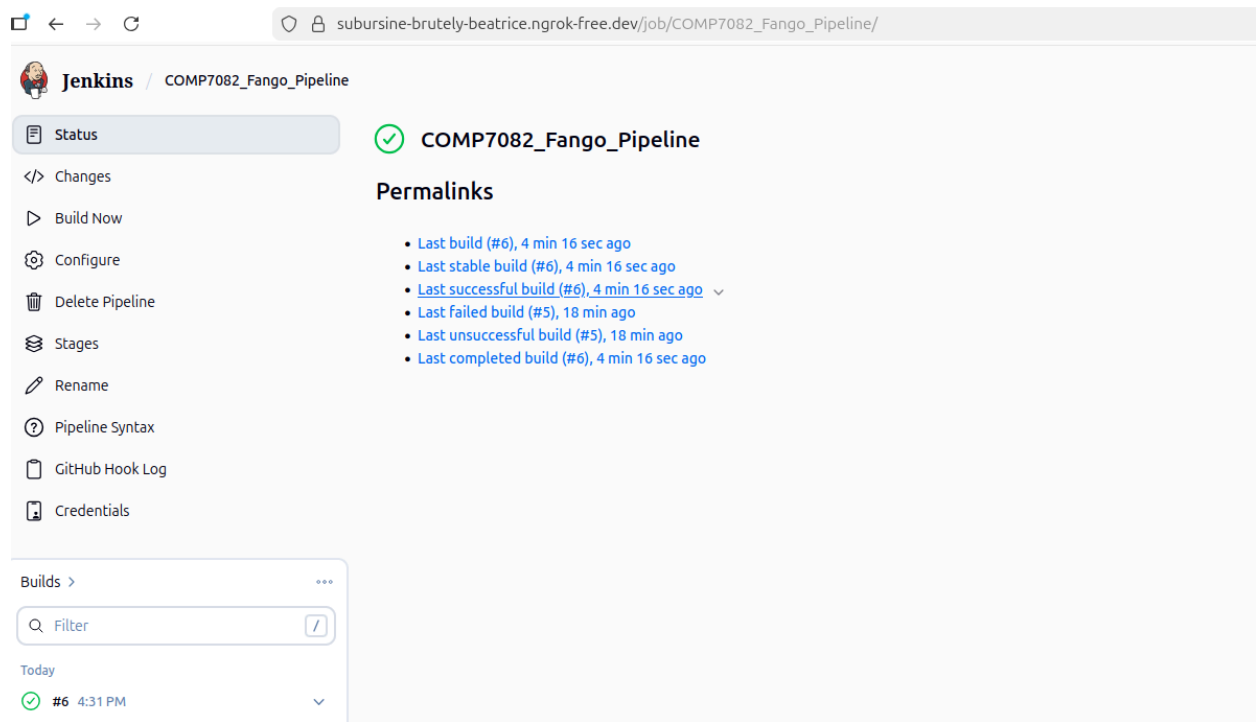
Workflow Name	Status	Branch	Event	Actor	Time
Removed duplicate imports in test.py and fixed tests to use mock redis	Success	main	Push	hyunjin	1 minute ago
Fixed more tests to stop using hset, uses mock instead	Failure	main	Push	hyunjin	16 minutes ago
Added cleanup stage to Jenkins	Success	main	Push	hyunjin	30 minutes ago
Modified jenkinsfile for troubleshooting	Success	main	Push	hyunjin	35 minutes ago
Pushed fix for tests to use mock redis since jenkins ci container doe...	Success	main	Push	hyunjin	37 minutes ago
Jenkins troubleshooting	Success	main	Push	hyunjin	Today at 3:05 PM
Jenkins debugging	Success	main	Push	hyunjin	Today at 3:56 PM
Final push	Success	main	Push	hyunjin	Today at 2:53 PM

Github Webhook to Jenkins (for automatic Jenkins building upon push):

The screenshot shows the 'Webhooks / Manage webhook' configuration page in GitHub. The left sidebar contains navigation links: General, Access, Collaborators, Moderation options, Code and automation, Branches, Tags, Rules, Actions, Models, Webhooks (selected), Copilot, Environments, Codespaces, Pages, Security, Advanced Security, Deploy keys, Secrets and variables, Integrations, GitHub Apps, Email notifications, and Autolink references. The main area is titled 'Webhooks / Manage webhook' and shows the 'Settings' tab. The configuration details are as follows:

- Payload URL ***: `https://subursine-brutely-beatrice.ngrok-free.dev/github-webhook/`
- Content type ***: `application/json`
- Secret**: (Empty field)
- SSL verification**: ☒ Enable SSL verification (selected), ☐ Disable (not recommended)
- Which events would you like to trigger this webhook?**: ☒ Just the push event. (selected), ☐ Send me everything., ☐ Let me select individual events.
- Active**: ☒ Active (checked), We will deliver event details when this hook is triggered.

Jenkins running on Ngrok public URL linked to Github webhook:



The screenshot shows the Jenkins web interface in a browser. The address bar displays the URL: `subursine-brutely-beatrice.ngrok-free.dev/job/COMP7082_Fango_Pipeline/`. The Jenkins logo and the pipeline name `COMP7082_Fango_Pipeline` are at the top. On the left, a sidebar contains navigation links: `Status` (selected), `Changes`, `Build Now`, `Configure`, `Delete Pipeline`, `Stages`, `Rename`, `Pipeline Syntax`, `GitHub Hook Log`, and `Credentials`. The main area shows a green checkmark icon and the pipeline name. Below this, a section titled `Permalinks` lists several links: `Last build (#6), 4 min 16 sec ago`, `Last stable build (#6), 4 min 16 sec ago`, `Last successful build (#6), 4 min 16 sec ago` (with a dropdown arrow), `Last failed build (#5), 18 min ago`, `Last unsuccessful build (#5), 18 min ago`, and `Last completed build (#6), 4 min 16 sec ago`. At the bottom left, a `Builds` section shows a search filter and a list of builds, with the most recent build being `#6` at `4:31 PM`, marked with a green checkmark.

Project Report

https://docs.google.com/document/d/1E1aWXMLkbewVCaDVOcq7Qm58EuBWLapHbfynIA66_fY/edit?usp=sharing

Code Reviews

https://github.com/Jyyunrin/group5_softwareengineering/pulls?q=is%3Apr+is%3Aclosed