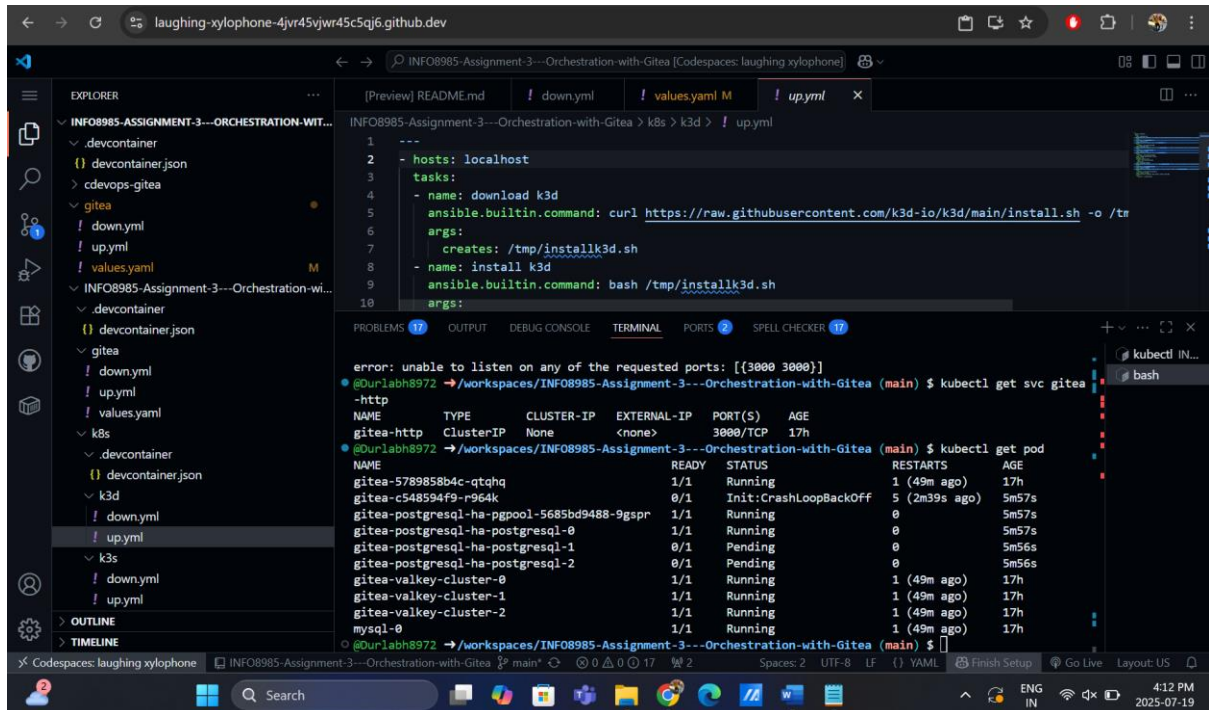


GitHub link: <https://github.com/Durlabh8972/INFO8985-Assignment-3---Orchestration-with-Gitea>

Running port:



The screenshot shows a VS Code editor with a file explorer on the left displaying a project structure for 'INFO8985-Assignment-3---Orchestration-with-Gitea'. The main editor shows an Ansible playbook 'up.yml' with the following content:

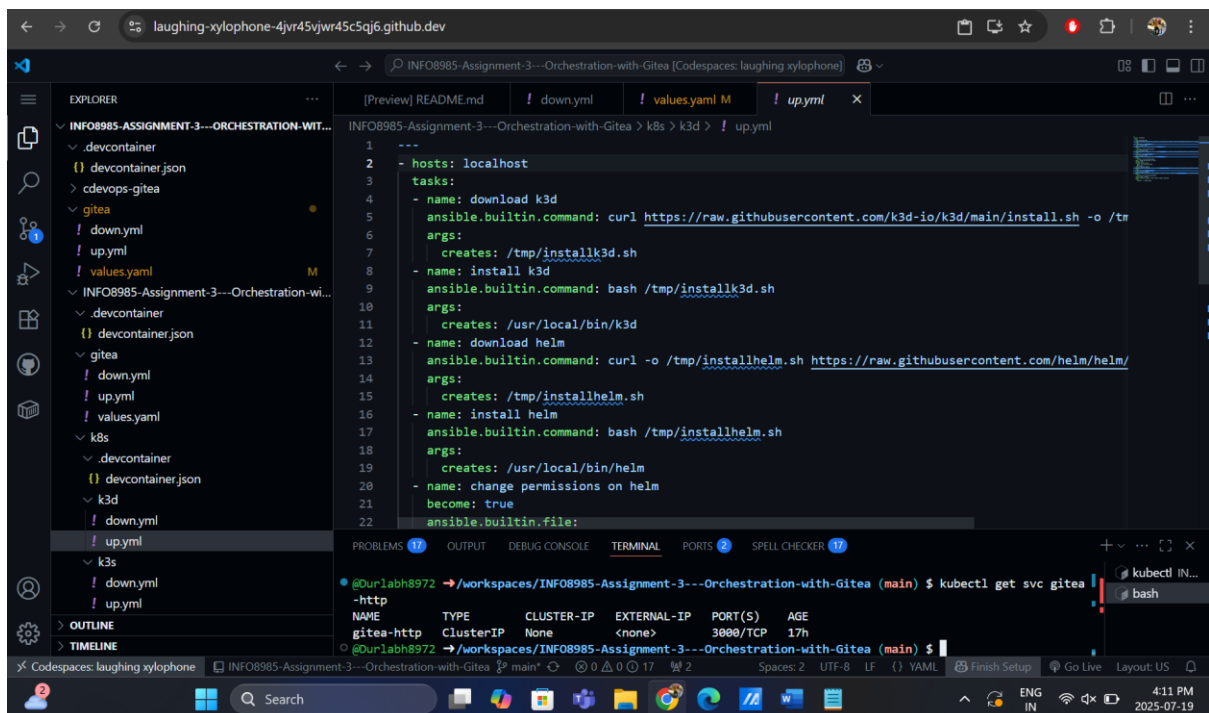
```
1 ---
2 - hosts: localhost
3   tasks:
4     - name: download k3d
5       ansible.builtin.command: curl https://raw.githubusercontent.com/k3d-io/k3d/main/install.sh -o /tmp/installk3d.sh
6       args:
7         creates: /tmp/installk3d.sh
8     - name: install k3d
9       ansible.builtin.command: bash /tmp/installk3d.sh
10      args:
```

The terminal at the bottom shows the command `kubectl get svc gitea` being executed, resulting in an error: `error: unable to listen on any of the requested ports: [[3000 3000]]`. Below the error, a table of Kubernetes services is displayed:

NAME	TYPE	CLUSTER-IP	EXTERNAL-IP	PORT(S)	AGE
gitea-http	ClusterIP	None	<none>	3000/TCP	17h

Below the table, a command `kubectl get pod` is shown, followed by a table of Kubernetes pods:

NAME	READY	STATUS	AGE	RESTARTS
gitea-5789858b4c-qtqhq	1/1	Running	1 (49m ago)	17h
gitea-c548594f9-r964k	0/1	Init:CrashLoopBackOff	5 (2m39s ago)	5m57s
gitea-postgresql-ha-pgpool-5685bd9488-9gspr	1/1	Running	0	5m57s
gitea-postgresql-ha-postgresql-0	1/1	Running	0	5m57s
gitea-postgresql-ha-postgresql-1	0/1	Pending	0	5m56s
gitea-postgresql-ha-postgresql-2	0/1	Pending	0	5m56s
gitea-valkey-cluster-0	1/1	Running	1 (49m ago)	17h
gitea-valkey-cluster-1	1/1	Running	1 (49m ago)	17h
gitea-valkey-cluster-2	1/1	Running	1 (49m ago)	17h
mysql-0	1/1	Running	1 (49m ago)	17h



The screenshot shows the same VS Code editor with the 'up.yml' file updated to include the installation of Helm. The updated content is:

```
1 ---
2 - hosts: localhost
3   tasks:
4     - name: download k3d
5       ansible.builtin.command: curl https://raw.githubusercontent.com/k3d-io/k3d/main/install.sh -o /tmp/installk3d.sh
6       args:
7         creates: /tmp/installk3d.sh
8     - name: install k3d
9       ansible.builtin.command: bash /tmp/installk3d.sh
10      args:
11        creates: /usr/local/bin/k3d
12     - name: download helm
13       ansible.builtin.command: curl -o /tmp/installhelm.sh https://raw.githubusercontent.com/helm/helm/
14       args:
15         creates: /tmp/installhelm.sh
16     - name: install helm
17       ansible.builtin.command: bash /tmp/installhelm.sh
18      args:
19        creates: /usr/local/bin/helm
20     - name: change permissions on helm
21       become: true
22     - ansible.builtin.file:
```

The terminal now shows the command `kubectl get svc gitea` being executed, resulting in a successful output:

NAME	TYPE	CLUSTER-IP	EXTERNAL-IP	PORT(S)	AGE
gitea-http	ClusterIP	None	<none>	3000/TCP	17h

## Connection with database:

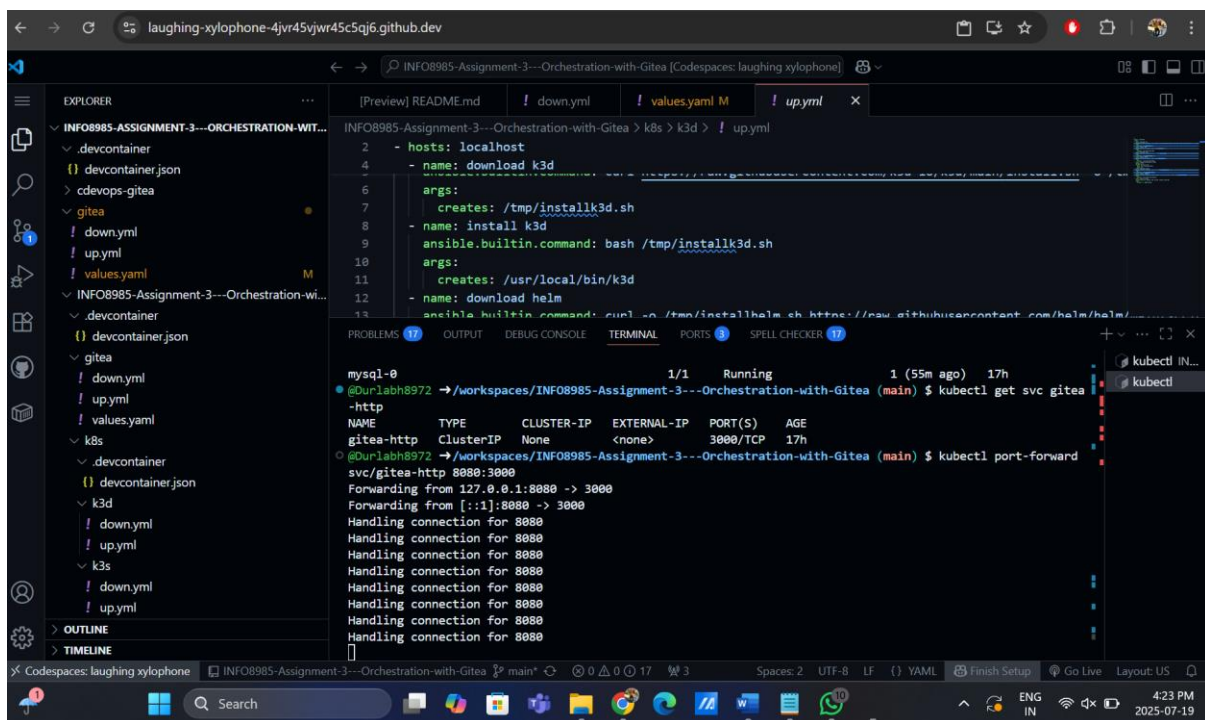
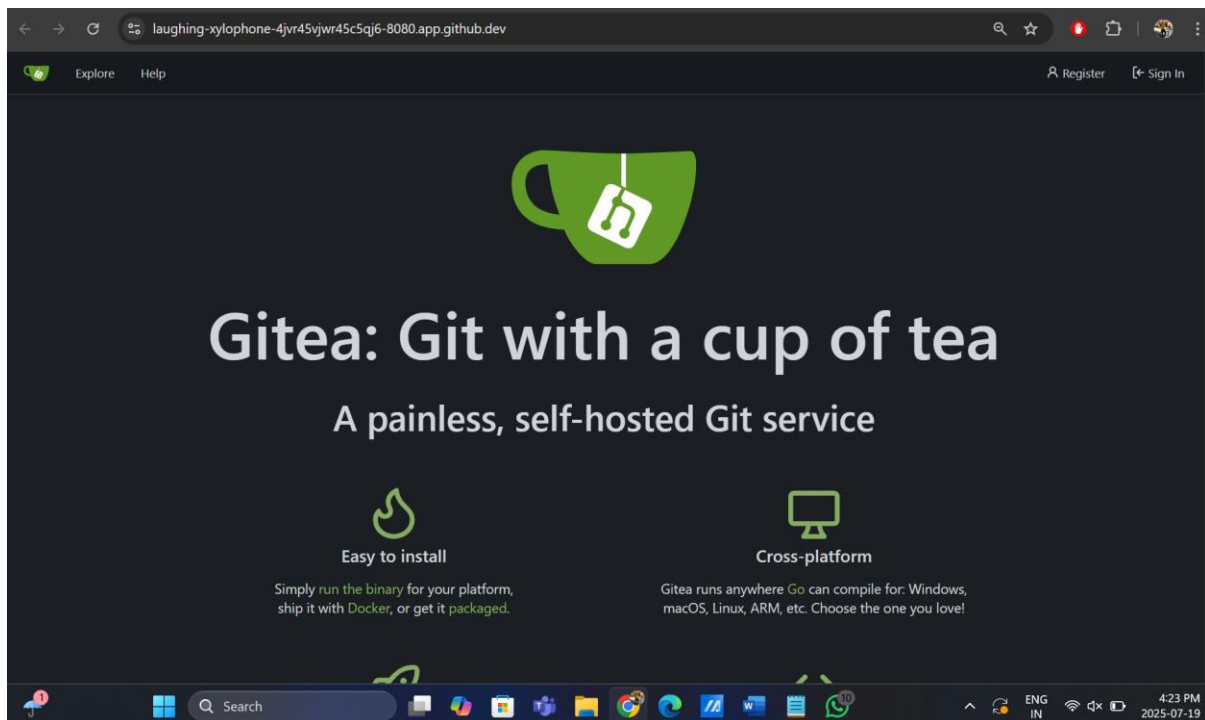
```
1 # Enable persistence for Gitea data
2 persistence:
3   enabled: true
4   size: 10Gi
5   storageClass: "" # Set your storageClass if needed (e.g., standard)
6
7 # Use an external MySQL database
8 postgresql:
9   enabled: false
10 mysql:
11   enabled: false
12
13 gitea:
```

```
@Durlabh8972 →/workspaces/INFO8985-Assignment-3---Orchestration-with-Gitea (main) $ kubectl get pvc
NAME                                STATUS    VOLUME                                     CAPACITY   ACCESS MODES   STORAGE
CLASS                               AGE
data-mysql-0                        Bound    pvc-ef35eacd-1da1-40b6-9205-423e979b960f   8Gi        RWO            local-p
ath                                <unset>   16h
valkey-data-gitea-valkey-cluster-0  Bound    pvc-1a00f6e3-de4f-4334-a23e-4a9639029a50   8Gi        RWO            local-p
ath                                <unset>   16h
valkey-data-gitea-valkey-cluster-1  Bound    pvc-cf67bc53-e83c-45e2-b98d-f9d3720a0714   8Gi        RWO            local-p
ath                                <unset>   16h
valkey-data-gitea-valkey-cluster-2  Bound    pvc-73fc6327-77a1-44d5-9cec-6dc56ca8300b   8Gi        RWO            local-p
ath                                <unset>   16h
@Durlabh8972 →/workspaces/INFO8985-Assignment-3---Orchestration-with-Gitea (main) $ helm repo add bitnami https://charts.
bitnami.com/bitnami
helm install mysql bitnami/mysql \
--set auth.rootPassword=admin123 \
```

## Ngrok:

```
GET /
Summary Headers Raw Binary
200 OK
13906 bytes text/html; charset=utf-8
<DOCTYPE html>
<html lang="en-US" data-theme="gitea-auto">
<head>
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <title>Gitea: Git with a cup of tea</title>
  <link rel="manifest" href="/data/application/json;base64,eyJ2YW11Zj...>
```

port-forward:



## Gitea repo:

The screenshot displays the Gitea web interface for a repository named 'giteauser/test-demo'. The top navigation bar includes links for 'Issues', 'Pull Requests', 'Milestones', and 'Explore'. The repository page shows a 'Quick Guide' section with the following content:

**Clone this repository** Need help cloning? Visit [Help](#).

Buttons: New File, Upload File, HTTPS, SSH. URL: `https://e8185fddae95.ngrok-free.app/giteauser/test-demo.git`

**Creating a new repository on the command line**

```
touch README.md
git init
git checkout -b main
git add README.md
git commit -m "first commit"
git remote add origin https://e8185fddae95.ngrok-free.app/giteauser/test-demo.git
git push -u origin main
```

**Pushing an existing repository from the command line**

```
git remote add origin https://e8185fddae95.ngrok-free.app/giteauser/test-demo.git
git push -u origin main
```

The Windows taskbar at the bottom shows the system clock as 4:59 PM on 2025-07-19, and the language is set to ENG IN.