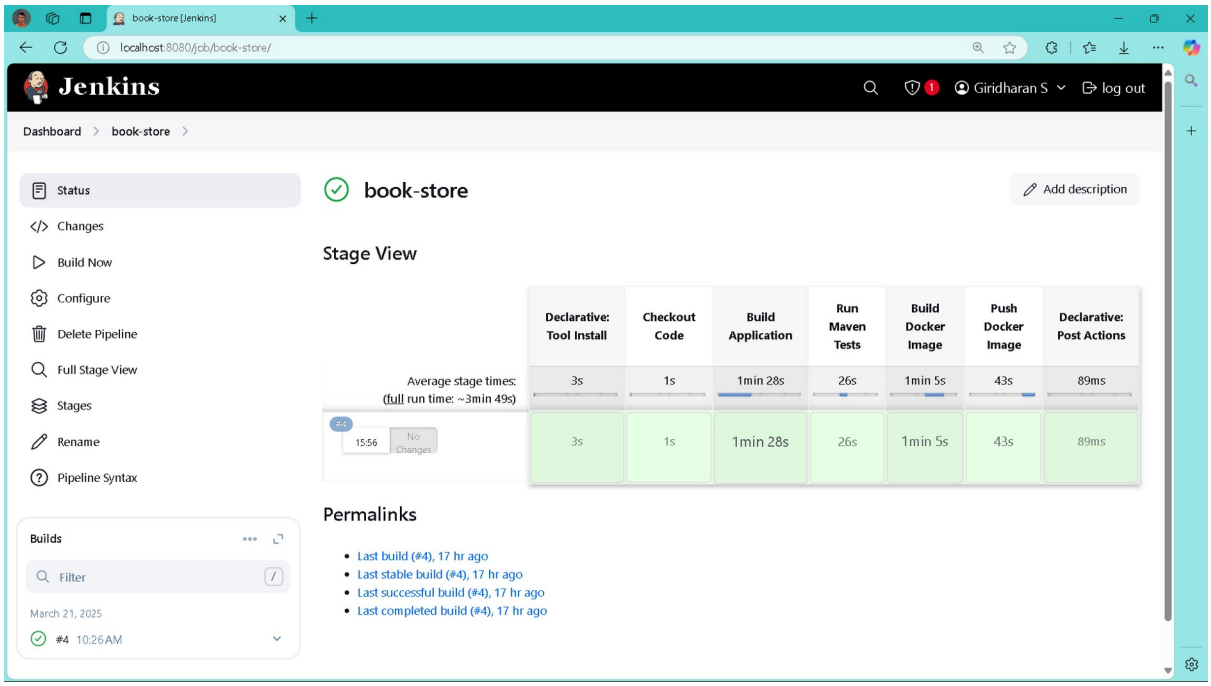
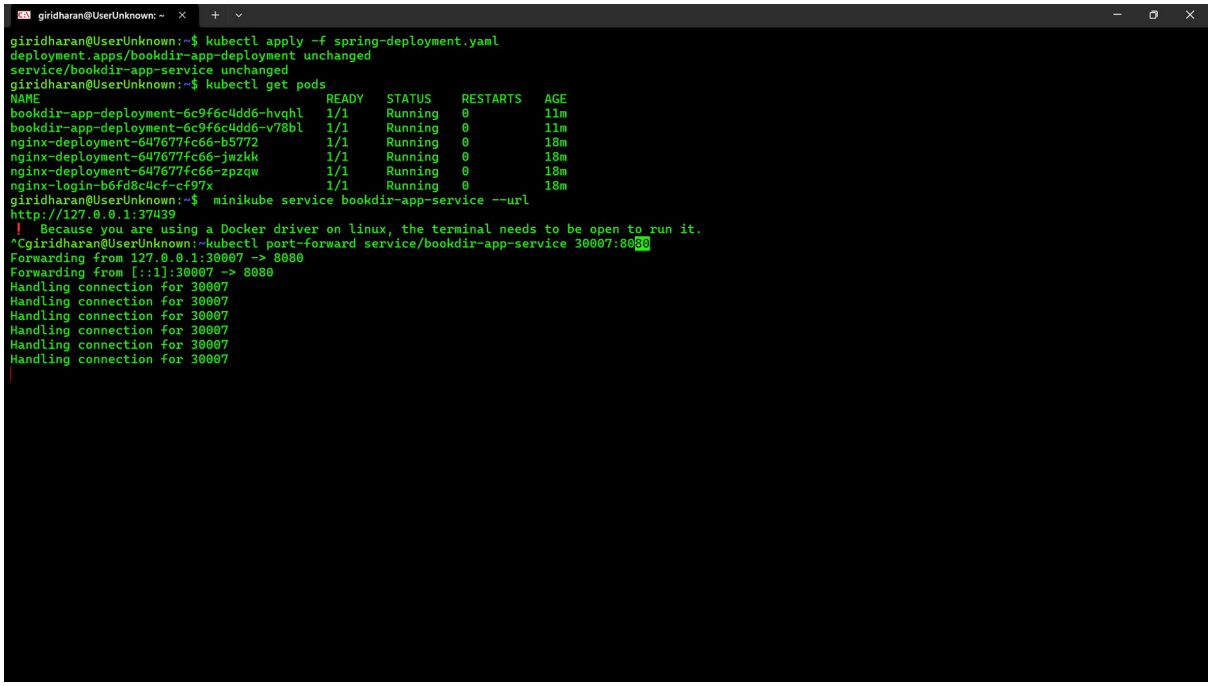
Spring Application Deployment



A Jenkins CI/CD pipeline dashboard for a "book-store" project, monitoring the successful execution of build stages (tool install, code checkout, application build, testing, and Docker image creation/pushing).



Kubernetes commands in a terminal to deploy the application, check pod status, and set up port forwarding to make the service accessible locally.

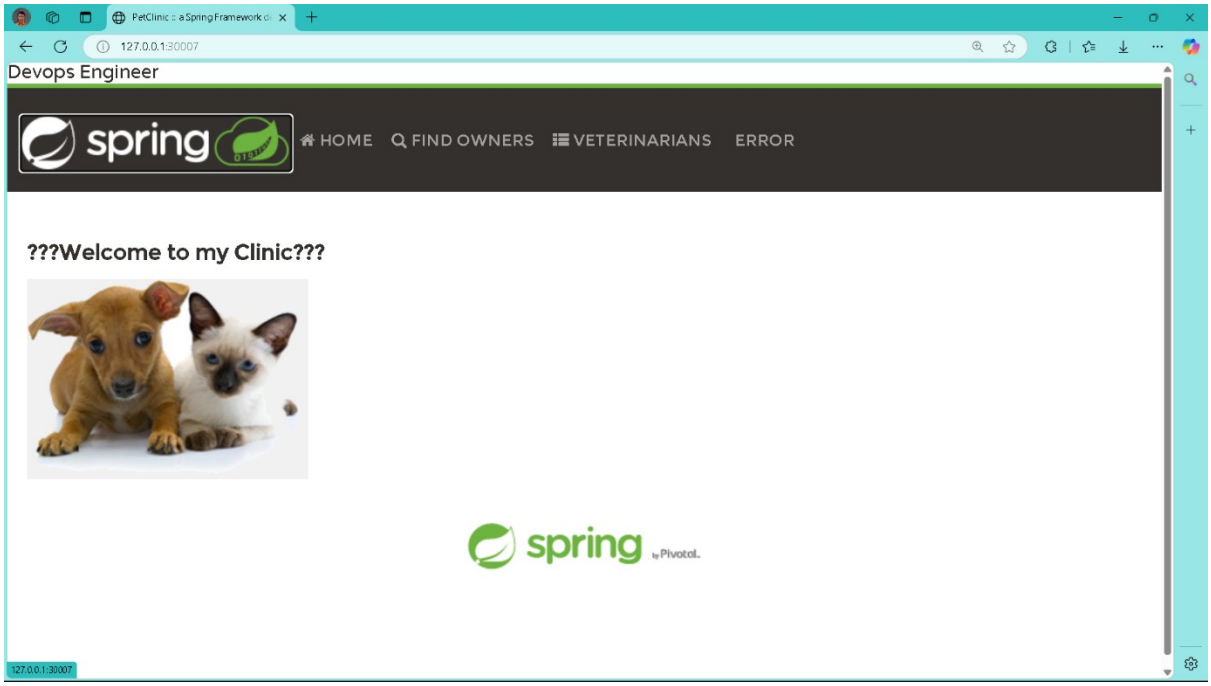
COMMANDS:

- nano spring-deployment.yaml
  Opens the Kubernetes deployment configuration file in the nano text editor, allowing you to create or edit the deployment specifications.
- kubectl apply -f spring-deployment.yaml
  Applies the configuration defined in the YAML file to your Kubernetes cluster, creating or updating resources like deployments and services.
- minikube service bookdir-app-service
  Exposes the service in your minikube cluster, making it accessible and providing the URL to access the application.
- kubectl port-forward service/bookdir-app-service 30007:8080
  Sets up port forwarding from your local machine's port 30007 to the service's port 8080 in the Kubernetes cluster, allowing you to access the application via localhost.

spring-deployment.yaml

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: bookdir-app-deployment
spec:
  replicas: 2
  selector:
    matchLabels:
      app: bookdir-app
  template:
    metadata:
      labels:
        app: bookdir-app
    spec:
      containers:
        - name: bookdir-app
          image: giridharans1729/social-app:latest
          imagePullPolicy: Always
          ports:
            - containerPort: 8080
---
```

```
apiVersion: v1
kind: Service
metadata:
  name: bookdir-app-service
spec:
  selector:
    app: bookdir-app
  ports:
    - protocol: TCP
      port: 80
      targetPort: 8080
      nodePort: 30007
  type: NodePort
```



The successfully deployed Spring PetClinic application in a browser, confirming that your CI/CD pipeline and Kubernetes deployment worked, though there's a formatting issue with the welcome message.