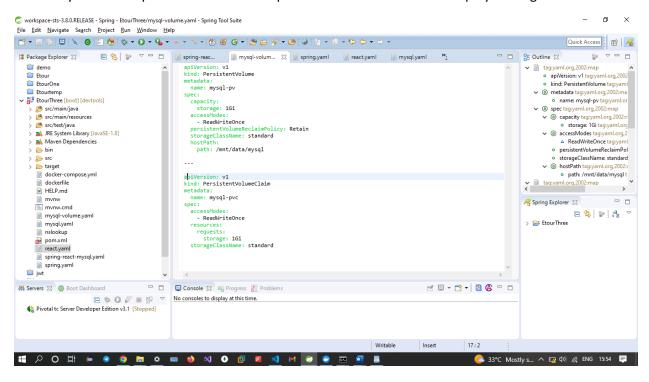
Kubernetes project deployment:

Start minikube. This will create image, volume and conainer of minikube.

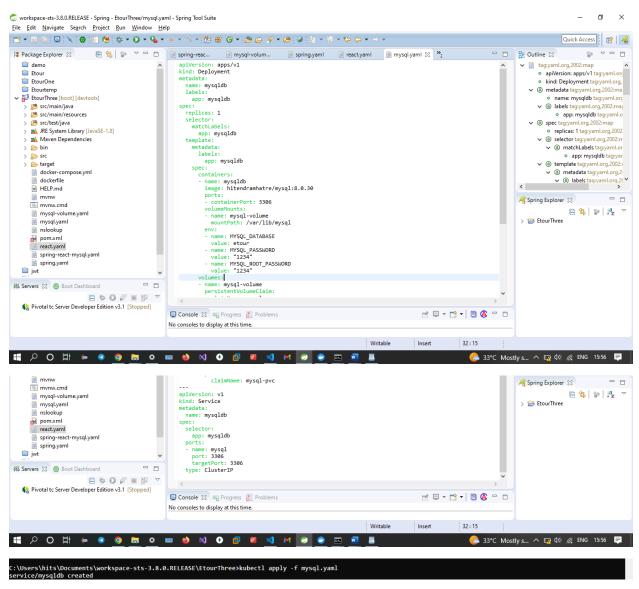
Create a yaml file for persistentVolume and persistentVolumeClaim. And deploy it using

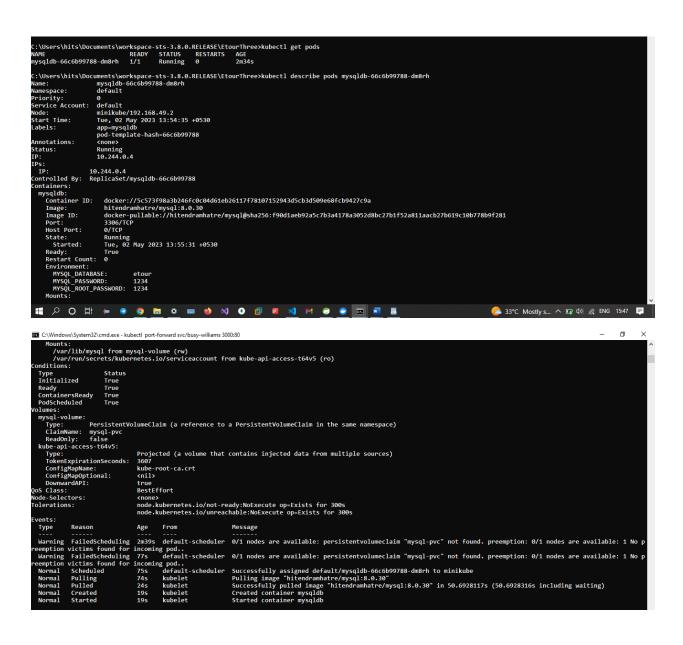


```
C:\Users\hits\Documents\workspace-sts-3.8.0.RELEASE\EtourThree>kubectl get pvc
No resources found in default namespace.
C:\Users\hits\Documents\workspace-sts-3.8.0.RELEASE\EtourThree>kubectl apply -f mysql-volume.yaml
persistentvolume/mysql-pv created
persistentvolumeclaim/mysql-pvc created
```

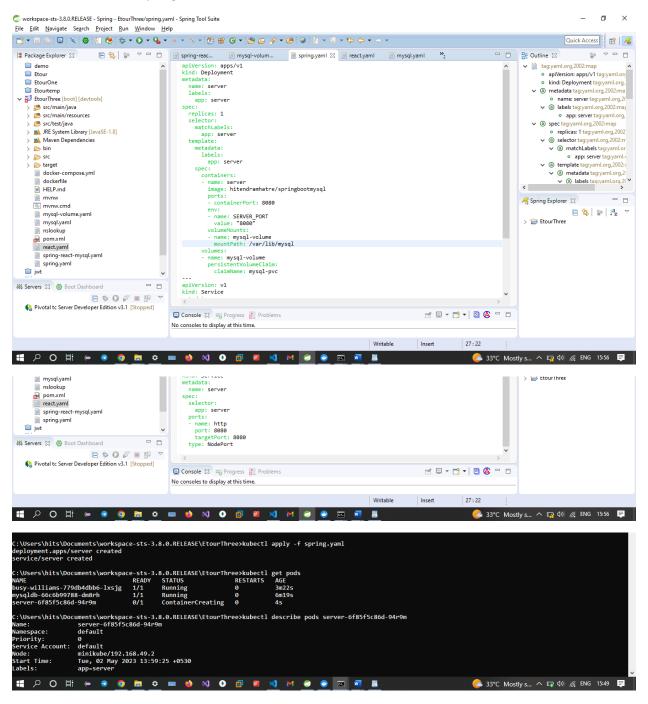
Create a yaml file for frontend, backend and middleware.

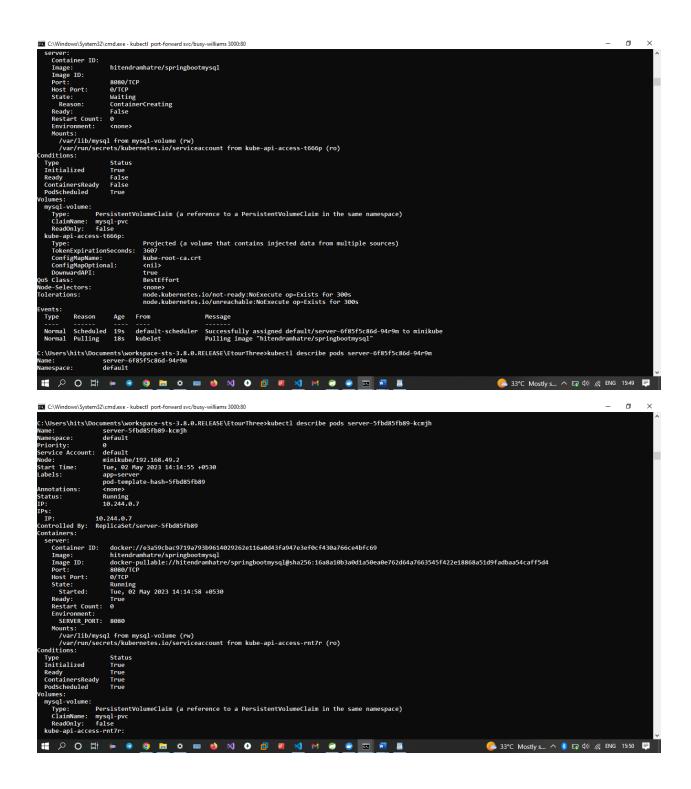
1. Backend (MySQL)

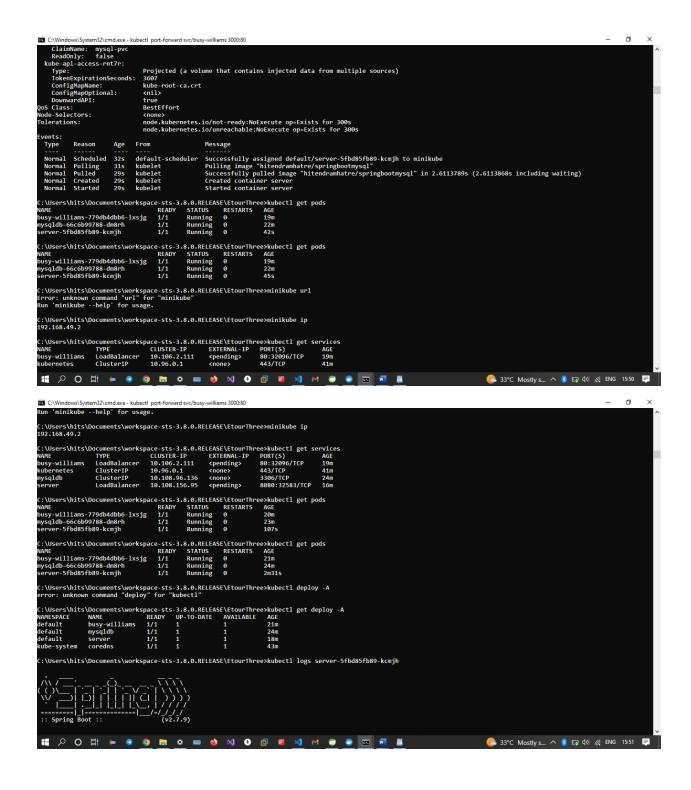




2. Middleware (SpringBoot)







```
C:\Windows\System32\cmd.exe - kubectl_nort-forward.syc/busy-williams 3000:80
                                                                                                                                                                                                                                              $\ \text{CsWindowsSystem32(cmd.eec-kubectl port-forward svc/busy-willams 300380} \)
$\ \text{2023-05-02} \text{ 08:45:02.372} \text{ INFO 1 --- [ main] com.etour.EtourOneApplication rver-5fbd85fb89-kcmjh with PID 1 (/app/demo.jar started by root in /app) \)
$\ \text{2023-05-02} \text{ 08:45:02.378} \text{ INFO 1 --- [ main] com.etour.EtourOneApplication \)
$\ \text{2023-05-02} \text{ 08:45:07.351} \text{ INFO 1 --- [ main] .s.d.r.c.RepositoryConfiguration \)
$\ \text{2023-05-02} \text{ 08:45:07.351} \text{ INFO 1 --- [ main] .s.d.r.c.RepositoryConfiguration \)
                                                                                                                                              : Starting EtourOneApplication v0.0.1-SNAPSHOT using Java 1.8.0 212 on se
                                                                                                                                               No active profile set, falling back to 1 default profile: "default"
Bootstrapping Spring Data JPA repositories in DEFAULT mode.
Finished Spring Data repository scanning in 1365 ms. Found 10 JPA repos
                                                                                .s.d.r.c.RepositoryConfigurationDelegate
.s.d.r.c.RepositoryConfigurationDelegate
2023-05-02 08:45:07.351
itory interfaces.
2023-05-02 08:45:09.902
2023-05-02 08:45:09.902
2023-05-02 08:45:09.952
2023-05-02 08:45:10.208
2023-05-02 08:45:10.208
2023-05-02 08:45:11.298
2023-05-02 08:45:11.799
2023-05-02 08:45:11.209
2023-05-02 08:45:12.201
2023-05-02 08:45:12.201
2023-05-02 08:45:12.959
2023-05-02 08:45:12.959
2023-05-02 08:45:12.999
2023-05-02 08:45:12.999
  (♣ 33°C Mostly s... ^ 🖇 🖙 Ф) 🦟 ENG 15:51 📮
a ×
 C:\Users\hits\Documents\workspace-sts-3:8:0.RELEASE\EtourThree>kubectl get pods

NAME

READY

STATUS

RESTARTS

AGE

busy-williams-779db4dbb6-lxsjg

1/1

Running

22m

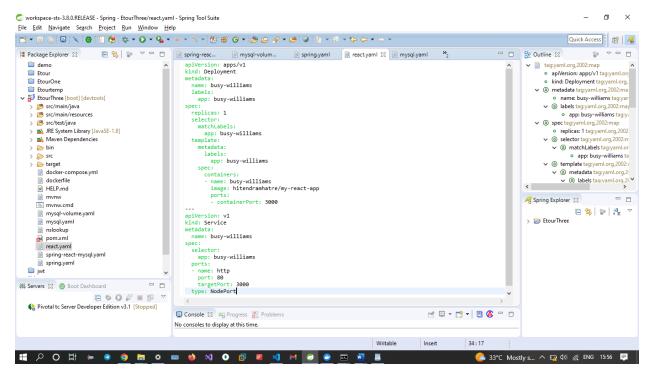
mysqldb-66c6b99788-dm8rh

1/1

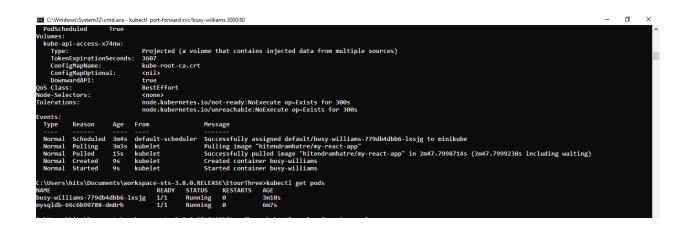
Running

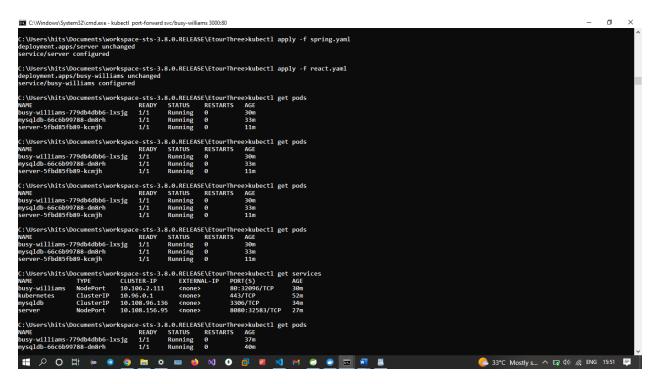
3m355
 C:\Users\hits\Documents\workspace-sts-3.8.0.RELEASE\EtourThree>kubectl get services -w
 NAME TYPE CLUSTER-IP EXTERNAL-IP busy-williams LoadBalancer 10.106.2.111 yending>
kubernetes ClusterIP 10.96.0.1 cnoe>
mysqldb ClusterIP 10.108.96.136 
                                                                                          PORT(S)
80:32096/TCP
443/TCP
3306/TCP
                                                                                                                   24m
45m
28m
  ( S3°C Mostly s... ヘ 🖙 🗘 ( ENG 15:51 📮
```

3. Frontend (React)

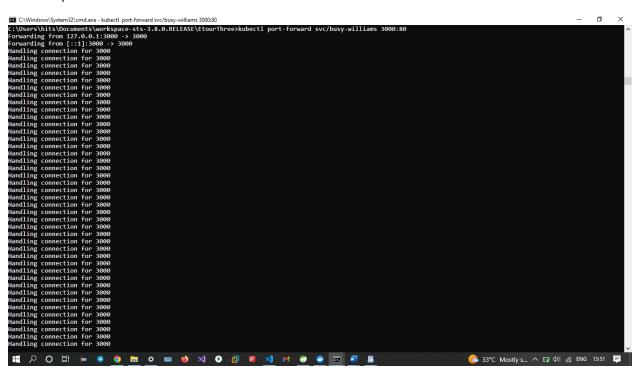


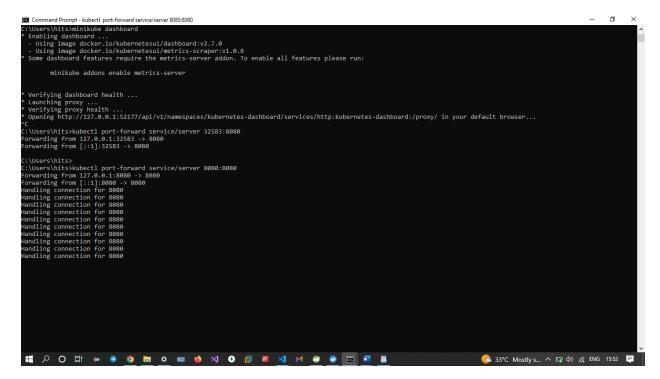
C:\Users\hits\Documents\workspace-sts-3.8.0.RELEASE\EtourThree>kubectl apply -f react.yaml deployment.apps/busy-williams created service/busy-williams created



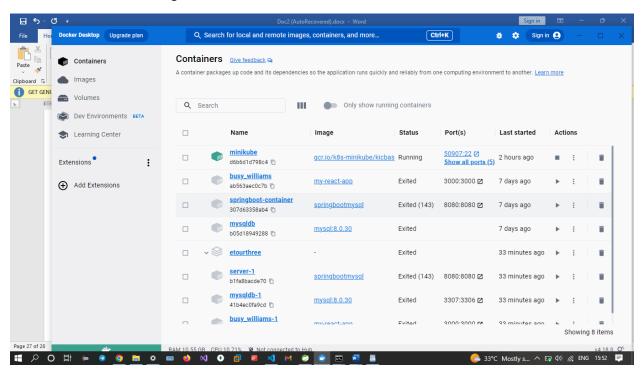


Forward port to localhost.

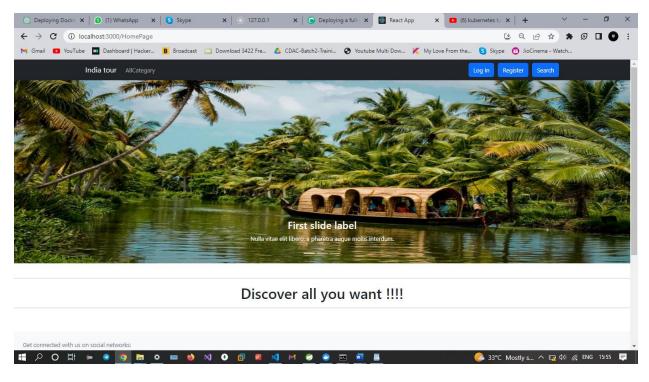




Minikube Container running in docker



Website is working on localhost.



Minikube dashboard showing running

