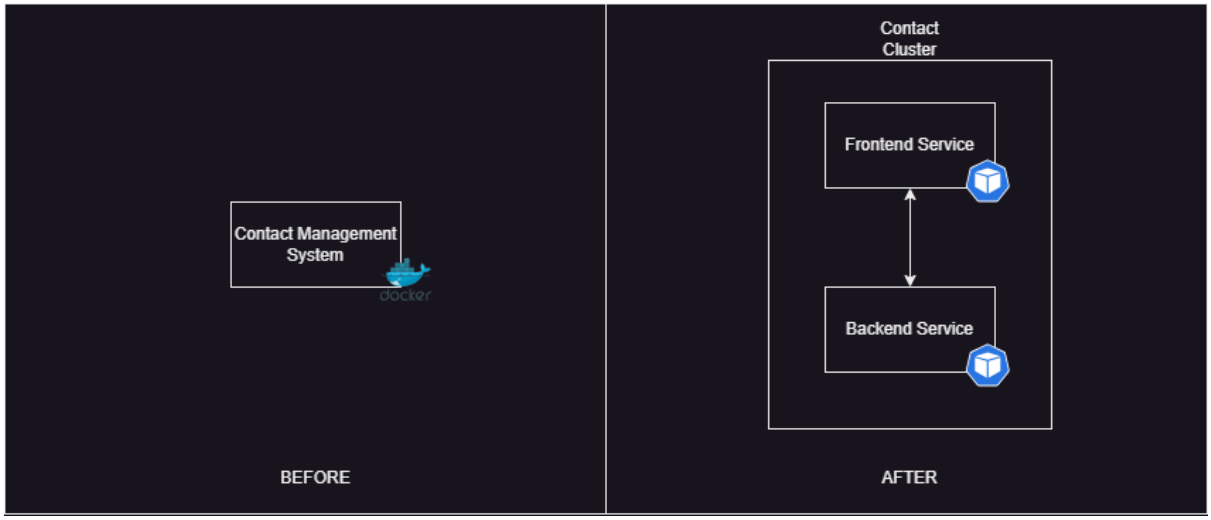
Microservices & Kubernetes

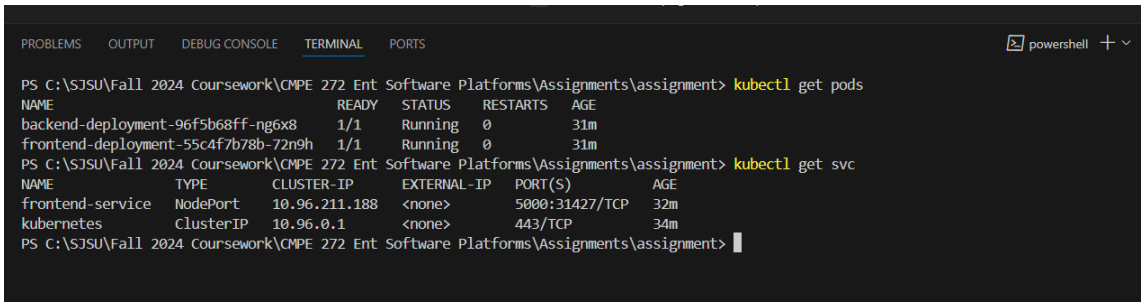
Initially, we had a monolithic application for Contact Management System deployed using Docker. However, we broke it down into two microservices, frontend-service and backend-service. The frontend-service manages the routing of the application, whereas the backend-service manages the contacts. The architectural diagram for the application, before and after this process was as follows:



Previously, a monolithic application deployed on Docker, has now become two microservices running on Kubernetes pods inside a Kind cluster.

The code and the Kubernetes configuration files (deployment.yaml and service.yaml for both services) for the application can be found on Github.

As shown in the image below, we can see the two microservices deployed and running in a pod and exposed with a service.



Here is another image of the live application.