

Project Development - Delivery of Sprint-4

Date	19 th Nov 2022
Project Title	News Tracker Application
Team ID	PNT2022TMID47959
Maximum Marks	4 Marks

Sprint-4 Deliverables

1.Containerized the application using docker desktop and pushed the image file to dockerhub.

2.Pushed the docker image file to the ibm cloud container registry.

3.Deployed the image file from container registry to the Kubernetes.

Docker playground commands:

- docker pull keerumx/cad
- docker run -p 5000:5000 keerumx/cad

Kubernetes deployment:

- Website address: <https://newstracker.ml/>

Source Codes

deployment.yaml:

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: cad-newstracker-deployment
spec:
  replicas: 1
  selector:
    matchLabels:
      app: newstracker
  template:
    metadata:
      labels:
        app: newstracker
    spec:
      containers:
        - name: newstracker
          image: us.icr.io/newstracker/cad
          imagePullPolicy: Always
          ports:
            - containerPort: 5000
```

service.yaml:

```
apiVersion: v1
kind: Service
metadata:
  name: cad-newstracker-deployment
spec:
  ports:
    - port: 5000
      targetPort: 5000
  selector:
    app: Newstracker
```

requirements.txt:

```
flask
flask_mail
newsapi-python
ibm_db
```

Dockerfile:

```
FROM python:3.6
WORKDIR /app
ADD . /app
COPY requirements.txt /app
RUN python3 -m pip install -r requirements.txt
RUN python3 -m pip install ibm_db
RUN python3 -m pip install newsapi-python
RUN python3 -m pip install flask_mail
RUN python3 -m pip install flask
EXPOSE 5000
CMD ["python", "app.py"]
```













