ASSIGNMENT-4

PROJECT NAME : NEWS TRACKER APPLICATION

TEAM ID :PNT2022TMID40259

REG NO :513219104707

NAME :S.PRABHAVATHI

KUBERNETES

Deployment.html

apiVersion: apps/v1kind: Deployment

metadata:

name: flask-app

spec:

replicas: 3

selector:

matchLabels:

app: flask-app

template:

metadata:

labels:

app: flask-app

```
spec:
```

containers:

- name: webpage

image: Assignment/flask
imagePullPolicy: Never

ports:

- containerPort: 5000

protocol: TCP

service.yaml

apiVersion: v1

kind: Service

metadata:

name: flask-app-service

spec:

type: ClusterIP

ports:

- port: 5000

selector:

app: flask-app

base.html

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
```

<title> FlaskApp</title>

```
<style>
   .message {
      padding: 10px;
      margin: 5px;
      background-color: #656362
   }
   h1{
      color: #1d78cd;
   nav a {
      color: #1d78cd;
      font-size: 25px;
      margin-left: 50px;
      text-decoration: none;
      text-transform: uppercase;
   .alert {
      padding: 20px;
      margin: 5px;
      color: #977c30;
      background-color: #dda1ae;
   .button {
background-color:#977c30; /* red */
border: none;
color: white;
padding: 16px 32px;
text-align: center;
```

```
text-decoration: none;
 display: inline-block;
 font-size: 16px;
 margin: 4px 2px;
 transition-duration: 0.4s;
 cursor: pointer;
.button1 {
 background-color: white;
 color: black;
 border-radius: 10px;
 border: 2px solid #036523;
.button1:hover {
 background-color: #00971e;
 color: rgb(47, 41, 51);
input[type=text],textarea {
 width: 50%;
 padding: 12px 20px;
 margin: 8px 0;
 box-sizing: border-box;
 border: 2px solid;
 border-radius: 4px;
  </style>
</head>
```

```
<body>
  <nav>
    <a href="#">Home</a>
    <a href="{{ url_for('index') }}">FlaskApp</a>
    <a href="{{ url_for('create') }}">Create</a>
  </nav>
  <hr>>
  <div class="content">
    {% for message in get_flashed_messages() %}
       <div class="alert">{{ message }}</div>
    {% endfor %}
    {% block content %} {% endblock %}
  </div>
</body>
</html>
create.html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title> FlaskApp</title>
  <style>
    .message {
      padding: 10px;
      margin: 5px;
       background-color: #656362
```

```
}
   h1{
      color: #1d78cd;
    }
   nav a {
      color: #1d78cd;
      font-size: 25px;
      margin-left: 50px;
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 box-sizing: border-box;
 border: 2px solid;
 border-radius: 4px;
  </style>
</head>
<body>
  <nav>
     <a href="#">Home</a>
     <a href="{{ url_for('index') }}">FlaskApp</a>
     <a href="{{ url_for('create') }}">Create</a>
```

```
</nav>
  <hr>
  <div class="content">
    {% for message in get_flashed_messages() %}
      <div class="alert">{{ message }}</div>
    {% endfor %}
    {% block content %} {% endblock %}
  </div>
</body>
</html>
index.html
{% extends 'base.html' %}
{% block content %}
  <h1 style="text-align: center;">WELCOME!</h1>
  <h1> {% block title %} <span style="color: rgb(29, 11, 166);">WRITE
YOUR MESSAGES</span> {% endblock %}</h1>
  {% for message in messages %}
    <div class='message'>
      <h3><span style="color: rgb(255, 255, 255);">TITLE: </span>
{{ message['title'] }}</h3>
      <span style="color: rgb(255, 255, 255);">MESSAGE :
</span>{{ message['content'] }}
    </div>
  {% endfor %}
{% endblock %}
```

```
PS C:\Windows\system32> docker pull hello-world
Using default tag: latest
latest: Pulling from library/hello-world
Digest: sha256:e18f0a777aefabe047a671ab3ec3eed05414477c951ab1a6f352a06974245fe7
Status: Image is up to date for hello-world:latest
docker.io/library/hello-world:latest
PS C:\Windows\system32>
```

Dockerfile

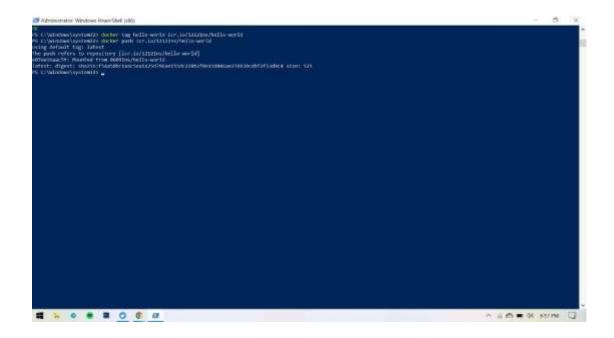
FROM python:3.10-buster

WORKDIR /app

COPY..

RUN pip install --no-cache-dir -r requirements.txt

CMD ["ibm_db2", "--bind", "0.0.0.0:5000", "app:app"]



Create a Kubernetes cluster in IBM cloud and deploy hello world image or jobportal image and also expose the same app to run in nodeport.

