ASSIGNMENT-4

PROJECT NAME : NEWS TRACKER APPLICATION

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KUBERNETES

Deployment.html

apiVersion: apps/v1 kind:

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

```
h1{
color: #1d78cd;
     }
           nav a {
                          color:
#1d78cd;
                 font-size: 25px;
margin-left: 50px;
                         text-
decoration: none;
                         text-
transform: uppercase;
     }
    .alert {
                   padding: 20px;
                    color:
margin: 5px;
#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 {
                     margin: 5px;
padding: 10px;
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;
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```
.button {
 background-color:#977c30; /* red */
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padding: 16px 32px; text-align:
center; text-decoration: none;
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color: white; color: black;
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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
      box-sizing: border-
0;
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>
```

```
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"]
```

```
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```

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.

