### **Assignment-4**

### Assignment Kubernetes / Docker

Assignment Date	2 November 2022	
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Maximum Marks	2 Marks	

### Question-1:

```
1.Pull an Image from docker hub and run it in docker playground.

2.Create a docker file for the jobportal application and deploy it in Docker desktop application

3.Create a IBM container registry and deploy helloworld app or jobportalapp.

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

#### **Solution:**

### Base.html:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>{% block title %}{% endblock %}</title>
  k rel="stylesheet" href="{{ url_for('static', filename='css/style.css') }}"/>
  <link rel="preconnect" href="https://fonts.googleapis.com">
<link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
k ref="https://fonts.googleapis.com/css2?family=Michroma&display=swap" rel="stylesheet">
</head>
<body>
  {% block main %}
  {% endblock %}
</body>
</html>
```

```
Index.html:
{% extends 'base.html' %}
{% block title %}
 Welcome
{% endblock %}
{% block main %}
  <div>
   <h2>Hello World!</h2>
    The Hello World Program is Printed Successfully
  </div>
{% endblock %}
_init__.py:
from flask import Flask
def create_app():
  app = Flask(__name___)
  # registering the blue print with the app from .views
import blue_print
```

app.register\_blueprint(blueprint=blue\_print, appendix='/')

# Views.py:

return app

```
from flask import Blueprint, render_template
```

```
blue_print = Blueprint("print", __name__)
@blue_print.route('/') def
home():
    return render_template('index.html')
```

# App.py:

```
from venv import create from
hello import create_app

if __name__ == "__main__": app =
create_app()
app.run(host="0.0.0.0", port=5000)
```

## Dockerfile:

```
FROM python:3.7

WORKDIR /app

ADD . /app

COPY requirements.txt /app

RUN python -m pip install -r requirements.txt

EXPOSE 5000

ENTRYPOINT [ "python" ]

CMD [ "app.py" ]
```

# Requirements.txt:

flask









