

Assignment -4
Kubernetes /Docker

Assignment Date	22 October 2022
Team members Name	Ashok Kumar CV, Vishali R, Sowmiyaa S, Vishagan C SU
Team ID	PNT2022TMID21475
Maximum Marks	2 Marks

Question:

- 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 jobportal app.
- 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:

```
from flask import Flask, render_template, request, url_for, flash, redirect
```

```
app = Flask(__name__)  
app.config['SECRET_KEY'] =  
'df0331cefc6c2b9a5d0208a726a5d1c0fd37324feba25506'
```

```
@app.route('/create/', methods=('GET', 'POST'))  
def create():  
    if request.method == 'POST':  
        title = request.form['title']  
        content = request.form['content']  
  
        if not title:  
            flash('Title is required!')  
        elif not content:  
            flash('Content is required!')  
        else:  
            messages.append({'title': title, 'content': content})  
            name = "Vishagan"  
            return redirect(url_for('index', messages=name ))  
  
    return render_template('create.html')
```

```
messages = [{'title': 'Message from Ashok',  
            'content': 'Hi Vishagan'},  
            {'title': 'Message from Vishagan ',  
            'content': 'hi Ashok'}]
```

```
]
```

```
@app.route('/')
def index():
    return render_template('index.html',
messages=messages)
```

```
@app.route('/admin')
def hello_admin():
    return 'Hello Admin'
```

```
@app.route('/guest/<guest>')
def hello_guest(guest):
    return 'Hello %s as Guest' % guest
```

```
@app.route('/user/<name>')
def hello_user(name):
    if name == 'admin':
        return redirect(url_for('hello_admin'))
    else:
        return redirect(url_for('hello_guest', guest = name))
```

```
if __name__ == '__main__':
    app.run(host='0.0.0.0', port=5000, debug=True)
```

