Assignment - 4

Kubernetes/Docker

Assignment Date	30 october 2022
Student Name	SUVETHA DEVI P
Student Roll Number	421319102033
Maximum Marks	2 Marks

Question-1:

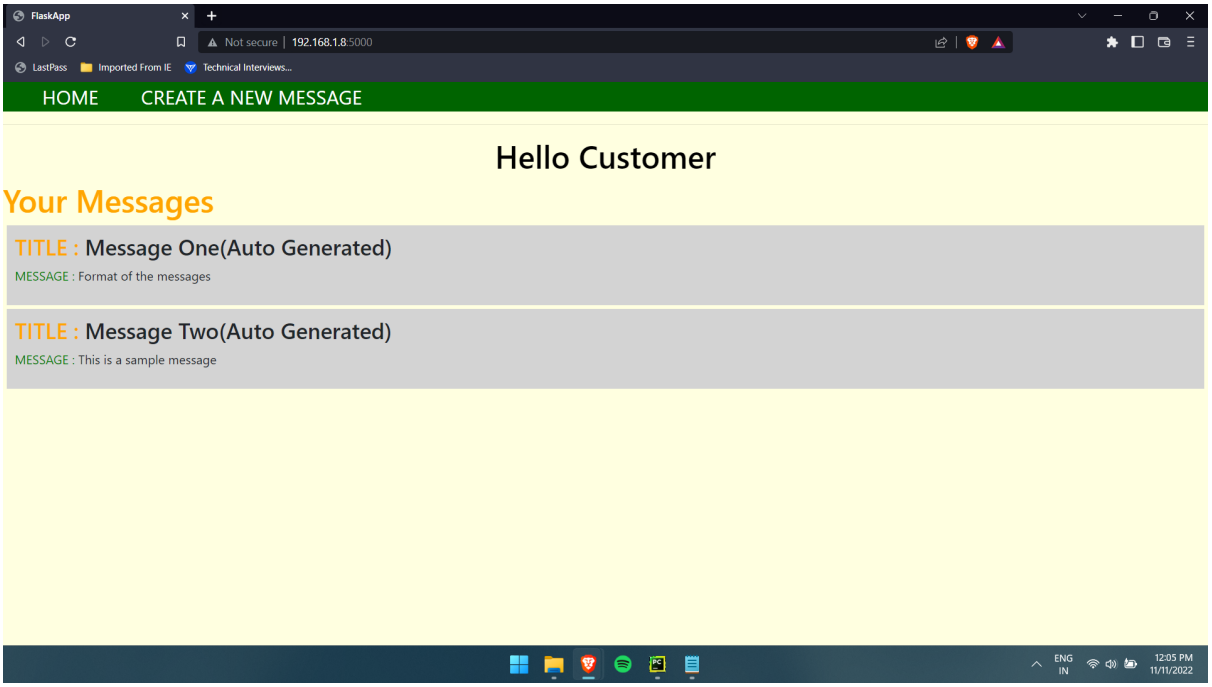
1.Working with Docker and Kubernetes and deploying as Nodeport.

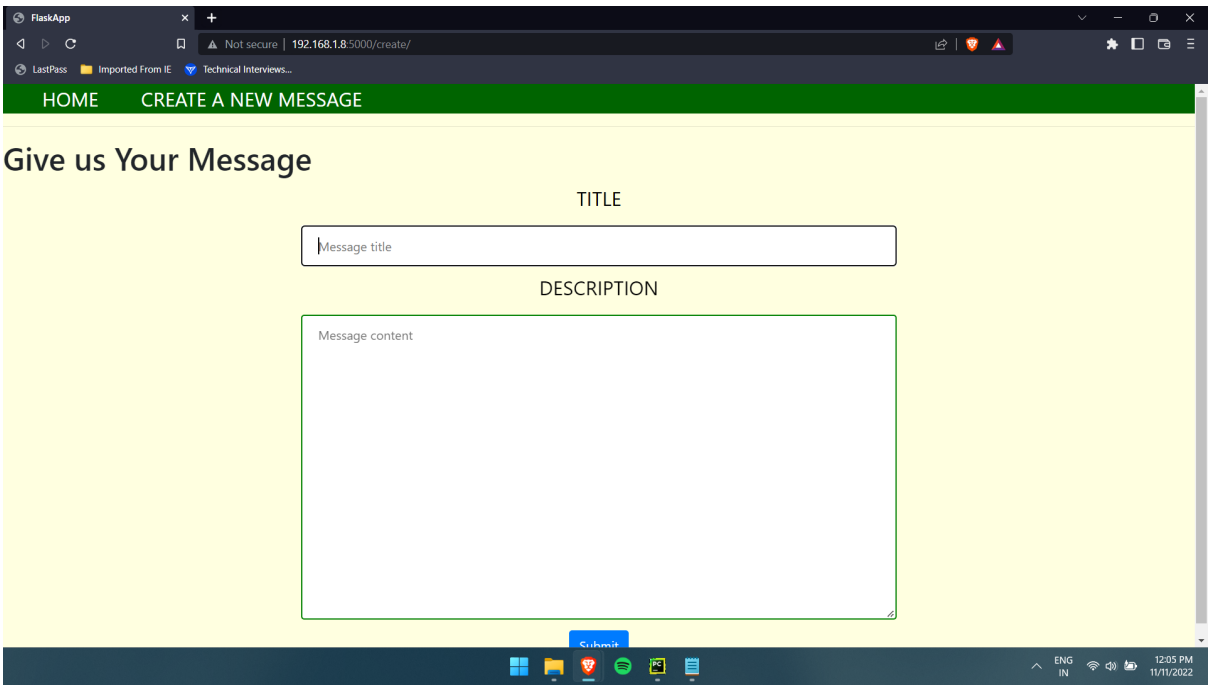
APP.py

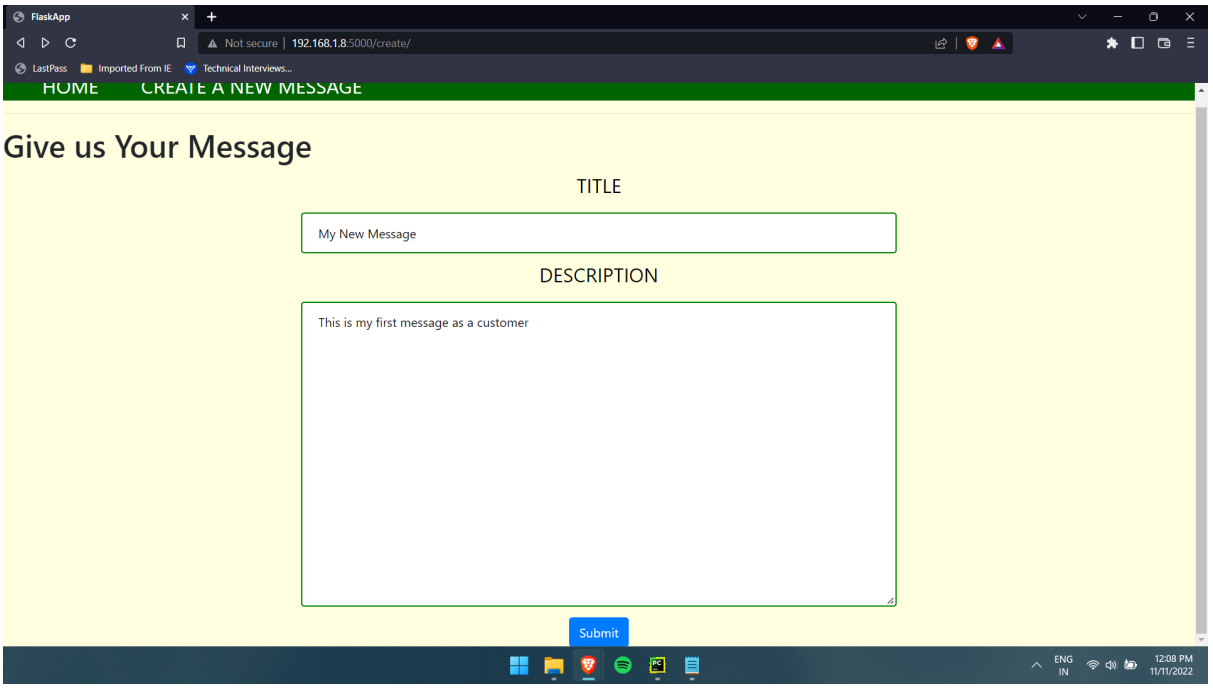
```
from flask import Flask, render_template, request, url_for, flash, redirect
app = Flask(__name__)
app.config['SECRET_KEY'] = 'df0331cefc6c2b9a5d0208a726a5d1c0fd37324feba25506'
@app.route('/create/', methods=('GET', 'POST'))
def create():
   if request.method == 'POST':
      title = request.form['title']
      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 = "Pravin Kumar"
         return redirect(url_for('index', messages=name ))
   return render_template('create.html')
messages = [{'title': 'Message One(Auto Generated)',
          'content': 'Format of the messages'},
         {'title': 'Message Two(Auto Generated)',
          'content': 'This is a sample message'}
         ]
@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'))
```

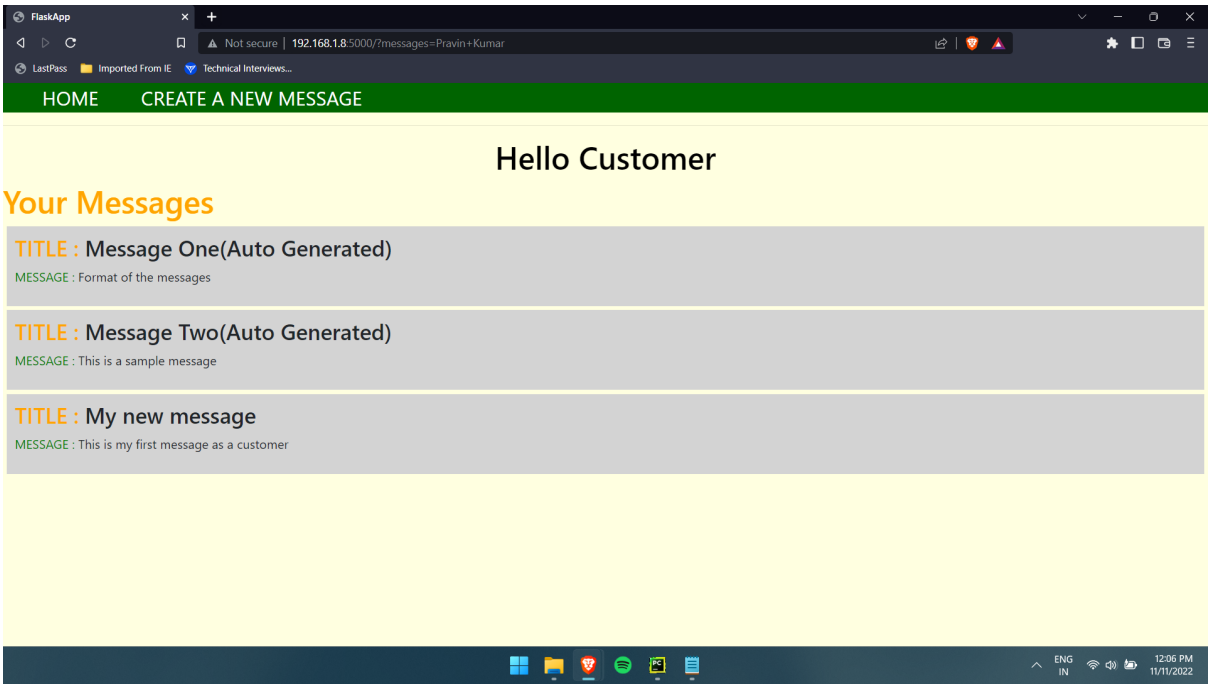
```
    else:
        return redirect(url_for('hello_guest',guest = name))

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

Output:






FlaskApp
Not secure | 192.168.1.8:5000/create/
LastPass
Imported From IE
Technical Interviews...
HOME
CREATE A NEW MESSAGE
Give us Your Message
TITLE
My New Message
DESCRIPTION
This is my first message as a customer
Submit
ENG
IN
12:08 PM
11/11/2022


FlaskApp
Not secure | 192.168.1.8:5000/?messages=Pravin+Kumar
LastPass
Imported From IE
Technical Interviews...
HOME
CREATE A NEW MESSAGE
Hello Customer
Your Messages
TITLE : Message One(Auto Generated)
MESSAGE : Format of the messages
TITLE : Message Two(Auto Generated)
MESSAGE : This is a sample message
TITLE : My new message
MESSAGE : This is my first message as a customer
ENG
IN
12:06 PM
11/11/2022