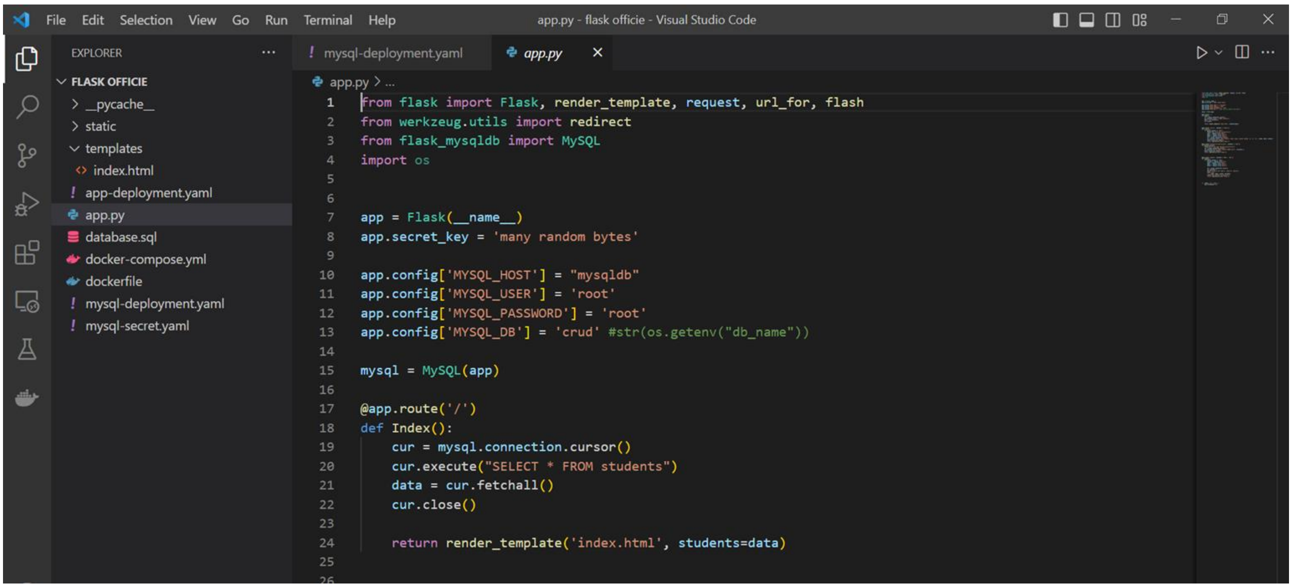
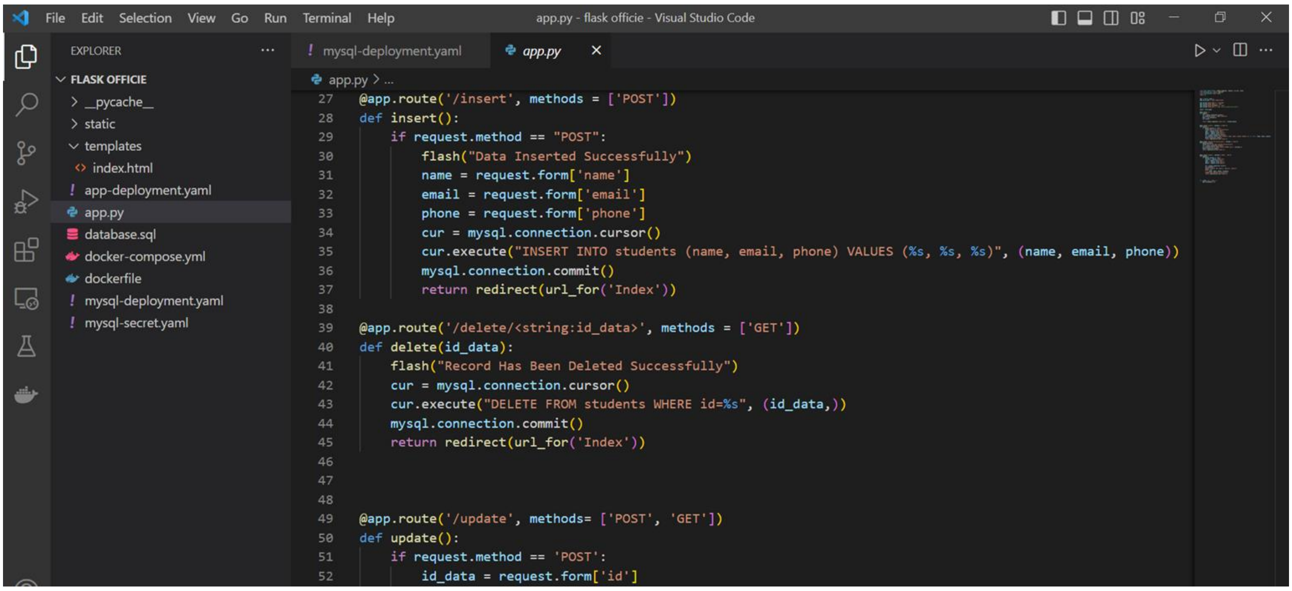
Date- 02/05/2023

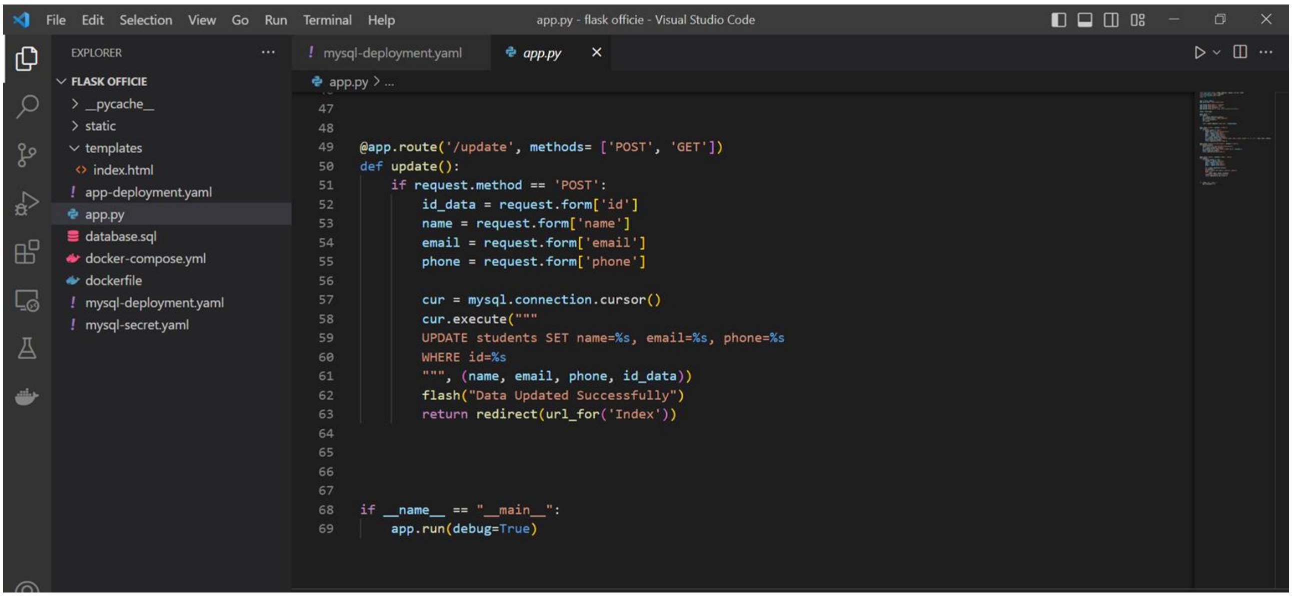
app.py file



```python
from flask import Flask, render_template, request, url_for, flash
from werkzeug.utils import redirect
from flask_mysqldb import MySQL
import os


app = Flask(__name__)
app.secret_key = 'many random bytes'

app.config['MYSQL_HOST'] = "mysqldb"
app.config['MYSQL_USER'] = 'root'
app.config['MYSQL_PASSWORD'] = 'root'
app.config['MYSQL_DB'] = 'crud' #str(os.getenv("db_name"))

mysql = MySQL(app)

@app.route('/')
def Index():
    cur = mysql.connection.cursor()
    cur.execute("SELECT * FROM students")
    data = cur.fetchall()
    cur.close()

    return render_template('index.html', students=data)

```

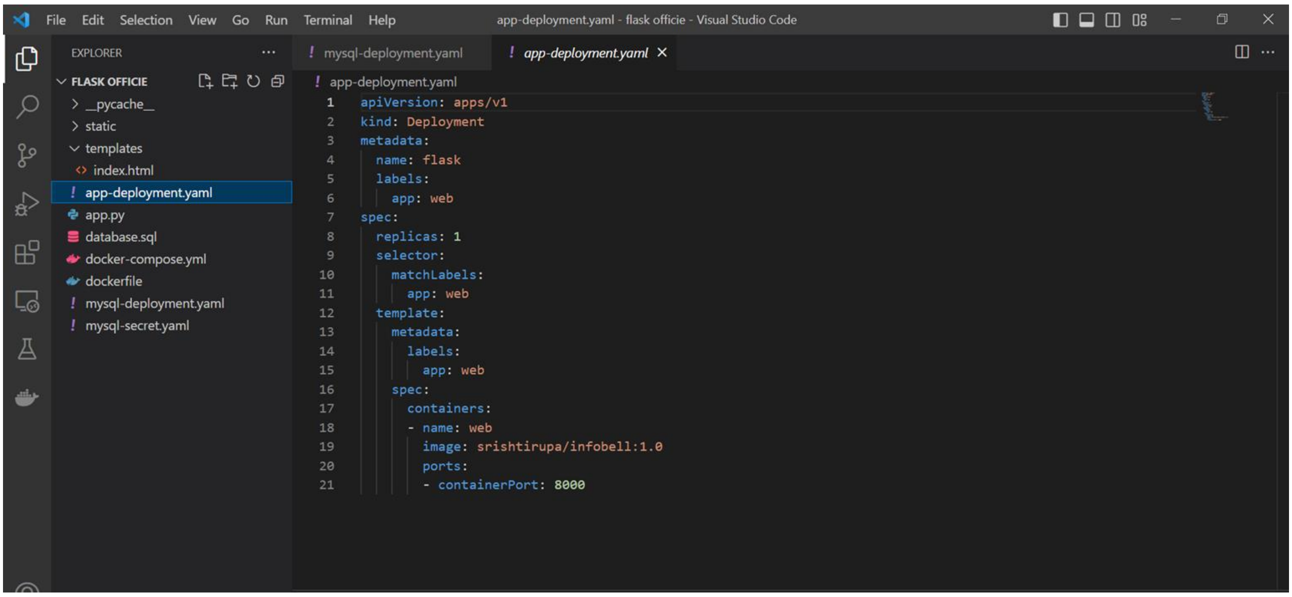


```python
@app.route('/insert', methods = ['POST'])
def insert():
    if request.method == "POST":
        flash("Data Inserted Successfully")
        name = request.form['name']
        email = request.form['email']
        phone = request.form['phone']
        cur = mysql.connection.cursor()
        cur.execute("INSERT INTO students (name, email, phone) VALUES (%s, %s, %s)", (name, email, phone))
        mysql.connection.commit()
        return redirect(url_for('Index'))

@app.route('/delete/<string:id_data>', methods = ['GET'])
def delete(id_data):
    flash("Record Has Been Deleted Successfully")
    cur = mysql.connection.cursor()
    cur.execute("DELETE FROM students WHERE id=%s", (id_data,))
    mysql.connection.commit()
    return redirect(url_for('Index'))



@app.route('/update', methods= ['POST', 'GET'])
def update():
    if request.method == 'POST':
        id_data = request.form['id']
```



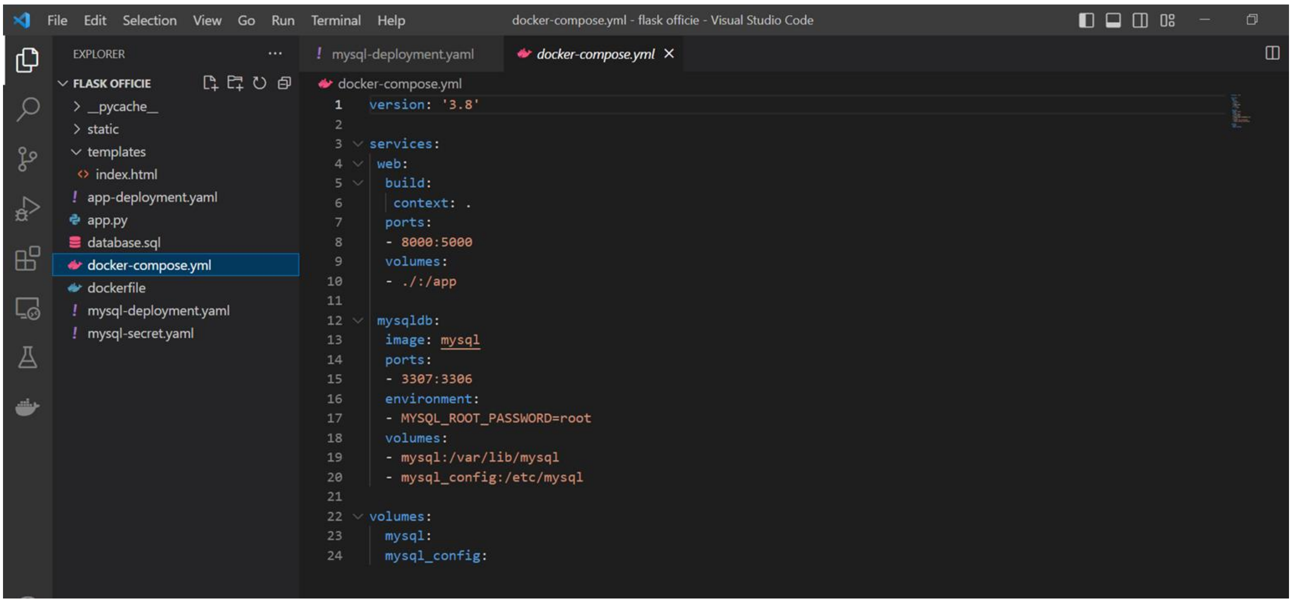
```python


@app.route('/update', methods= ['POST', 'GET'])
def update():
    if request.method == 'POST':
        id_data = request.form['id']
        name = request.form['name']
        email = request.form['email']
        phone = request.form['phone']

        cur = mysql.connection.cursor()
        cur.execute("""
        UPDATE students SET name=%s, email=%s, phone=%s
        WHERE id=%s
        """, (name, email, phone, id_data))
        flash("Data Updated Successfully")
        return redirect(url_for('Index'))




if __name__ == "__main__":
    app.run(debug=True)
```

app-deployment.yaml



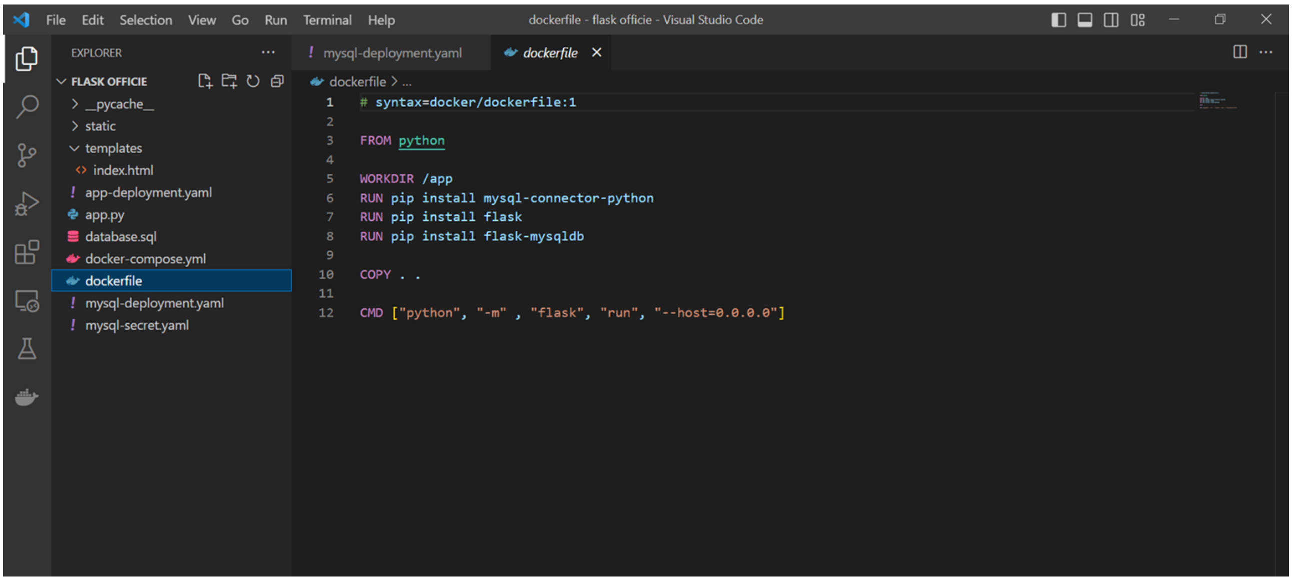
```yaml
apiVersion: apps/v1
kind: Deployment
metadata:
  name: flask
  labels:
    app: web
spec:
  replicas: 1
  selector:
    matchLabels:
      app: web
  template:
    metadata:
      labels:
        app: web
    spec:
      containers:
      - name: web
        image: srishtirupa/infobell:1.0
        ports:
        - containerPort: 8000
```

Docker-compose.yml



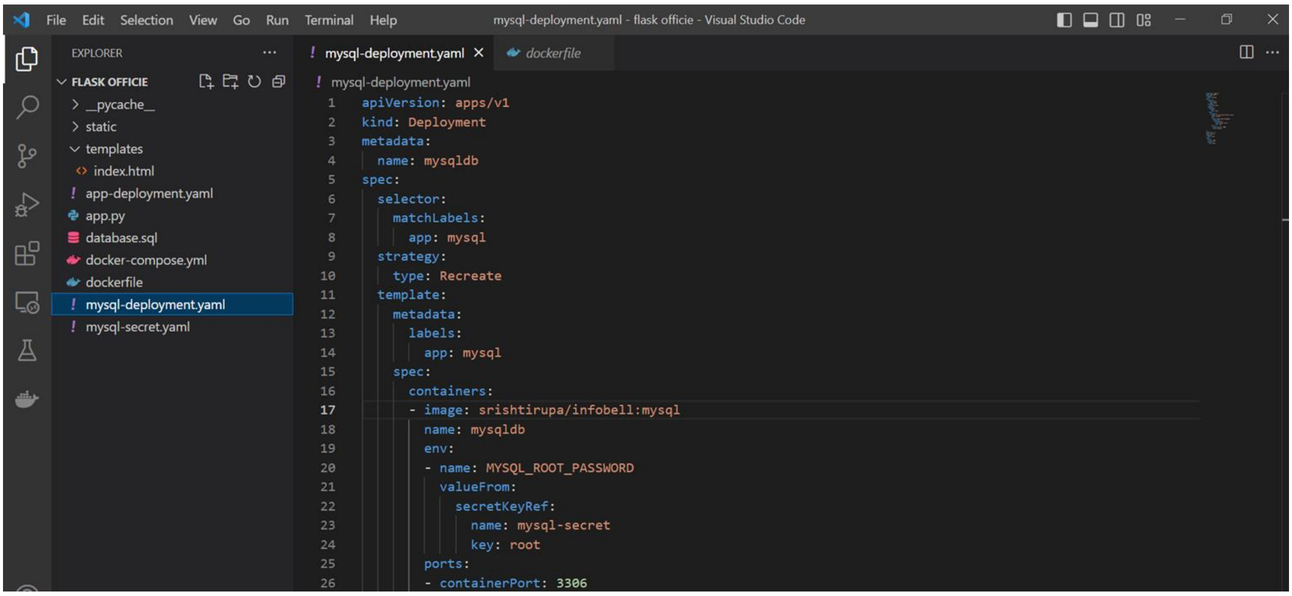
```yaml
version: '3.8'

services:
 web:
  build:
   context: .
  ports:
  - 8000:5000
  volumes:
  - ./:/app

 mysqldb:
  image: mysql
  ports:
  - 3307:3306
  environment:
  - MYSQL_ROOT_PASSWORD=root
  volumes:
  - mysql:/var/lib/mysql
  - mysql_config:/etc/mysql

volumes:
  mysql:
  mysql_config:
```

docker.yaml



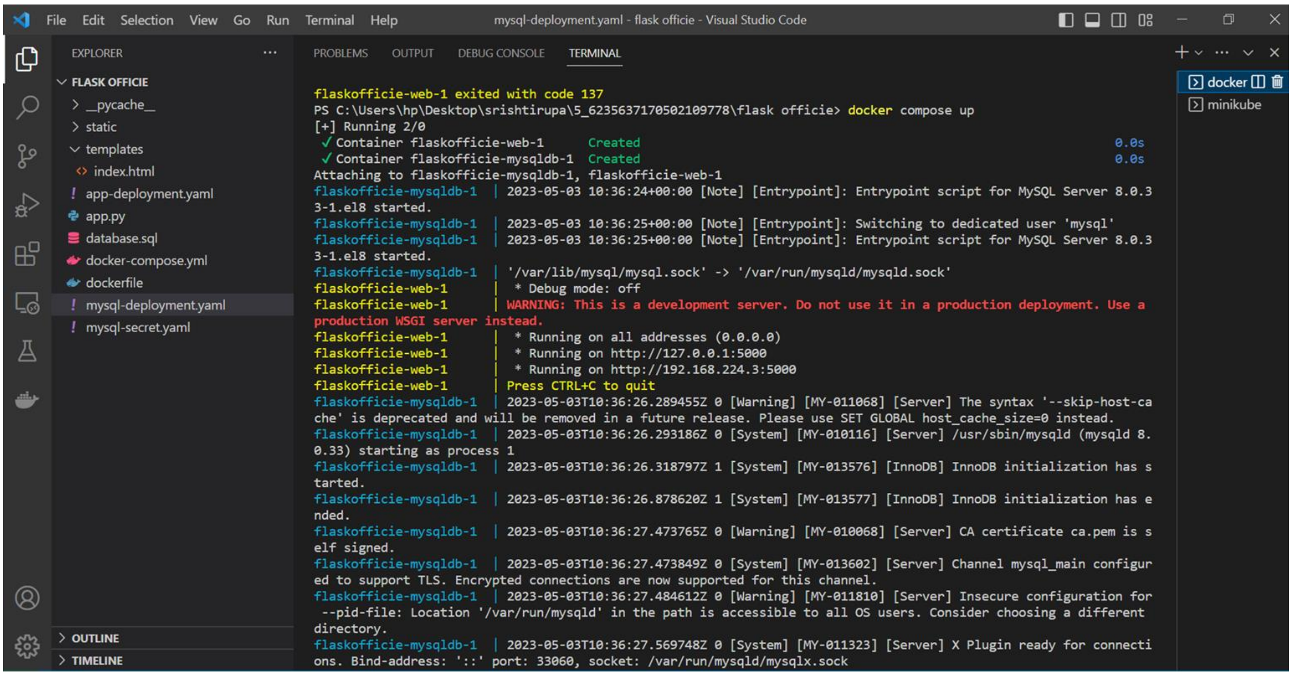
```dockerfile
# syntax=docker/dockerfile:1

FROM python

WORKDIR /app
RUN pip install mysql-connector-python
RUN pip install flask
RUN pip install flask-mysqldb

COPY . .

CMD ["python", "-m" , "flask", "run", "--host=0.0.0.0"]
```

mysql-deployment.yaml

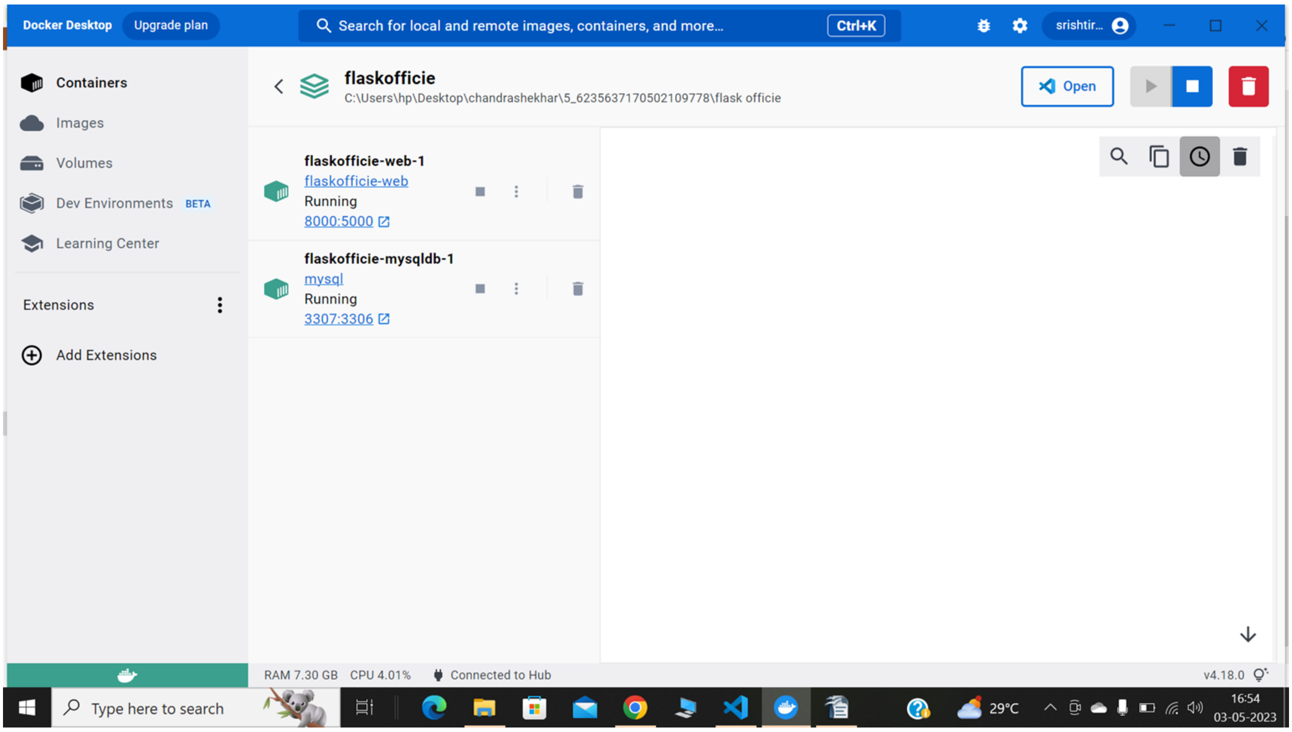


```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: mysqldb
spec:
  selector:
    matchLabels:
      app: mysql
  strategy:
    type: Recreate
  template:
    metadata:
      labels:
        app: mysql
    spec:
      containers:
      - image: srishtirupa/infobell:mysql
        name: mysqldb
        env:
        - name: MYSQL_ROOT_PASSWORD
          valueFrom:
            secretKeyRef:
              name: mysql-secret
              key: root
        ports:
        - containerPort: 3306
```

Docker compose up



```
flaskofficie-web-1 exited with code 137
PS C:\Users\hp\Desktop\srishtirupa\5_6235637170502109778\flask officie> docker compose up
[+] Running 2/0
 ✓ Container flaskofficie-web-1      Created                                                    0.0s
 ✓ Container flaskofficie-mysqldb-1  Created                                                    0.0s
Attaching to flaskofficie-mysqldb-1, flaskofficie-web-1
flaskofficie-mysqldb-1  | 2023-05-03 10:36:24+00:00 [Note] [Entrypoint]: Entrypoint script for MySQL Server 8.0.3
3-1.el8 started.
flaskofficie-mysqldb-1  | 2023-05-03 10:36:25+00:00 [Note] [Entrypoint]: Switching to dedicated user 'mysql'
flaskofficie-mysqldb-1  | 2023-05-03 10:36:25+00:00 [Note] [Entrypoint]: Entrypoint script for MySQL Server 8.0.3
3-1.el8 started.
flaskofficie-mysqldb-1  | '/var/lib/mysql/mysql.sock' -> '/var/run/mysqld/mysqld.sock'
flaskofficie-web-1      |  * Debug mode: off
flaskofficie-web-1      | WARNING: This is a development server. Do not use it in a production deployment. Use a
production WSGI server instead.
flaskofficie-web-1      |  * Running on all addresses (0.0.0.0)
flaskofficie-web-1      |  * Running on http://127.0.0.1:5000
flaskofficie-web-1      |  * Running on http://192.168.224.3:5000
flaskofficie-web-1      | Press CTRL+C to quit
flaskofficie-mysqldb-1  | 2023-05-03T10:36:26.289455Z 0 [Warning] [MY-011068] [Server] The syntax '--skip-host-ca
che' is deprecated and will be removed in a future release. Please use SET GLOBAL host_cache_size=0 instead.
flaskofficie-mysqldb-1  | 2023-05-03T10:36:26.293186Z 0 [System] [MY-010116] [Server] /usr/sbin/mysqld (mysqld 8.
0.33) starting as process 1
flaskofficie-mysqldb-1  | 2023-05-03T10:36:26.318797Z 1 [System] [MY-013576] [InnoDB] InnoDB initialization has s
tarted.
flaskofficie-mysqldb-1  | 2023-05-03T10:36:26.878620Z 1 [System] [MY-013577] [InnoDB] InnoDB initialization has e
nded.
flaskofficie-mysqldb-1  | 2023-05-03T10:36:27.473765Z 0 [Warning] [MY-010068] [Server] CA certificate ca.pem is s
elf signed.
flaskofficie-mysqldb-1  | 2023-05-03T10:36:27.473849Z 0 [System] [MY-013602] [Server] Channel mysql_main configur
ed to support TLS. Encrypted connections are now supported for this channel.
flaskofficie-mysqldb-1  | 2023-05-03T10:36:27.484612Z 0 [Warning] [MY-011810] [Server] Insecure configuration for
 --pid-file: Location '/var/run/mysqld' in the path is accessible to all OS users. Consider choosing a different
directory.
flaskofficie-mysqldb-1  | 2023-05-03T10:36:27.569748Z 0 [System] [MY-011323] [Server] X Plugin ready for connecti
ons. Bind-address: '::' port: 33060, socket: /var/run/mysqld/mysqlx.sock
```



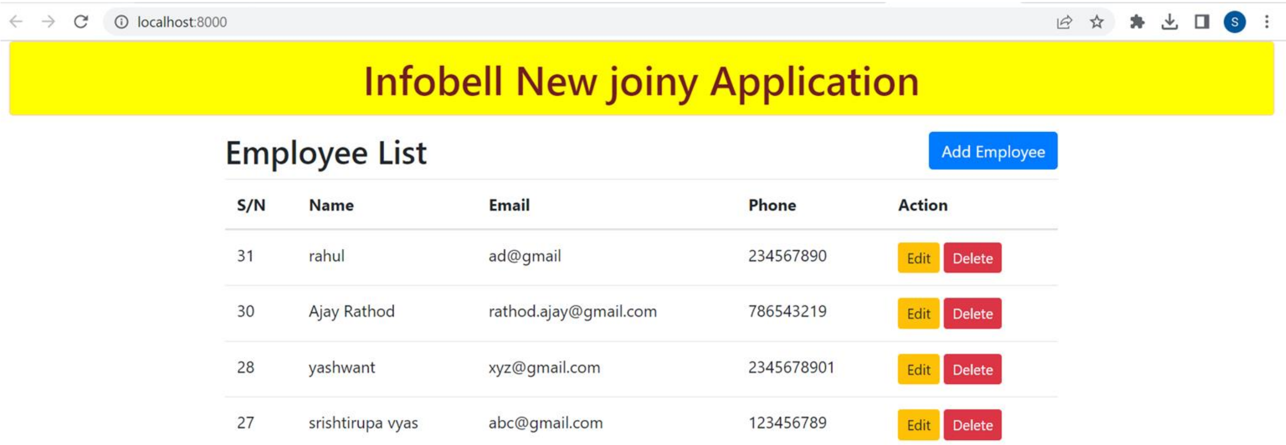
flaskofficie
C:\Users\hp\Desktop\chandrashekhar\5_6235637170502109778\flask officie

flaskofficie-web-1
flaskofficie-web
Running
8000:5000

flaskofficie-mysqldb-1
mysql
Running
3307:3306

RAM 7.30 GB CPU 4.01% Connected to Hub v4.18.0

16:54
03-05-2023



Infobell New joiny Application

Employee List

S/N	Name	Email	Phone	Action
31	rahul	ad@gmail	234567890	Edit Delete
30	Ajay Rathod	rathod.ajay@gmail.com	786543219	Edit Delete
28	yashwant	xyz@gmail.com	2345678901	Edit Delete
27	srishtirupa vyas	abc@gmail.com	123456789	Edit Delete