**Containerizing Flask-MySQL app**

**Step 1:** Create our application

Github link: <https://github.com/AK9789/flask-sql-containerize>

**Step 2:** Create a suitable docker file and build it

**Commands:**

* *docker build . -t ashwin9789/flask-sql-app*
* *docker push ashwin9789/flask-sql-app*

Our application’s docker image had been pushed in the docker hub

**Step 3:** Now create a docker-compose.yaml file

**Constraints:**

* Make sure that you’re given the networks for both the containers (app & db)
* And make sure that container\_name & host in app.y are similar.

**Step 4:** Start our docker-compose.yaml file

**Commands:**

* *docker-compose -f docker-compose.yaml up*

The containers of the app & db will be created.

**Step 5:** To test our application, open a new terminal and provide the command

*Curl 127.0.0.1:5000*

**O/P : “Hello”**

**Step 6:** To connect our database with our application, provide

*curl 127.0.0.1:5000/init -> to create a database*

*curl 127.0.0.1:5000/table -> to create a table*

*curl 127.0.0.1:5000/list -> to list the records*

**Step 7:** To enter into the database,

**Commands:**

* *docker ps -> it will list the running containers*

Select the db container’s id

* *docker exec -it <db\_container\_id> /bin/bash*
* *Mysql -u root -p (password: root)*