# Homework: IV

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**Solution of problem 3.** First pull the respective images of part 1 and part 2. here the image 2 received had no php support so that was added to perform the backend db query along with mysqli extension. First an html form was added to existing heml page to take the data entry. The modified html file is added in the submission. Also a php file is needed to communicate with the db server. This connects to the db server and then submits the entry received from html page. Here the id field in db is auto-increment so only name field entry is provided the id is given automatically. Also now we create a docker-compose.yml file. In this we create a network of two services: the web-server and the db image. The ports and other necessary parameters are provided. Also in links under the web service we give the name of the database to link them. Finally we run docker compose up –build option to check for all dependencies and download any if required. This will create a combined container containing the web server container and the db container. Now using the docker desktop ui open the webserver in browser to default page "IT Works" from here add "/q2page.html" to url to navigate to our page. SS of webpage added.
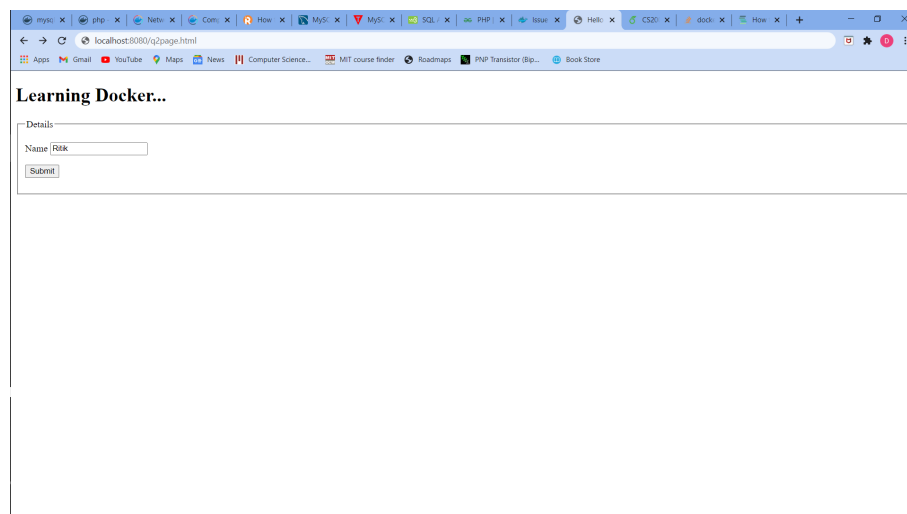


Figure 4.1: SS of website

On successful entry we get "Name Inserted". In the my sql database we can see the result. The ss is shown:

```
mysql> CREATE VIEW v1 AS
    -> SELECT id,name
    -> FROM MyUser;
Query OK, 0 rows affected (0.01 sec)

mysql> SELECT * FROM v1;
+----+-------+
| id | name  |
+----+-------+
|  1 | Dhruv |
|  2 | Ritik |
+----+-------+
2 rows in set (0.01 sec)
```

Figure 4.2: SS of table in db

Thus this working. REpo:

`https://hub.docker.com/repository/docker/drudocker40000/hw5q3`