Assignment: V

Name: Santaz Sahithi   RollNo: 11940230   Email: bandelas@iitbhilai.ac.in

Collaborators Names: Aayush Deshmukh(11940010), Shubham Gupta(11941140)

1.1 1C

Command to build docker network are:-
->Docker create network beenet
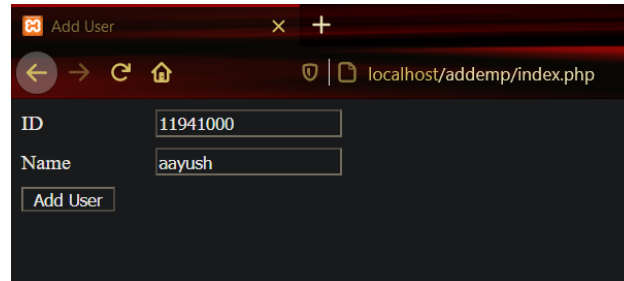->Docker run -itd –net beenet –name C1 apache_webserver sh
->Docker run -itd –net beenet –name C2 my-mysql sh
docker network inspect beenet . This command will check all info of the network
The following image shows that both containers are in the beenet network and are linked

Now, index.php is a PHP document that contains the code for taking the input from the user on a HTML web page. The following image shows one simple example used in this case:

process.php file contains the commands to read the user input from the backend and uses this input and enters the data in the MyUser table of the User Database
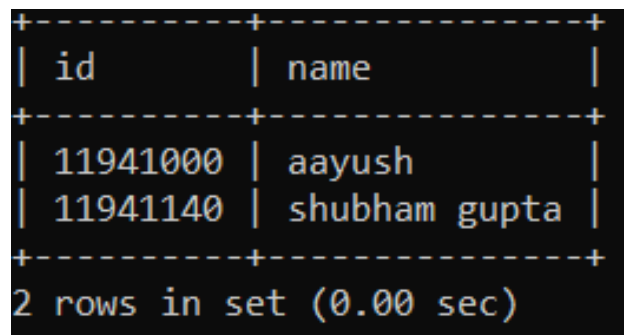
The commands will take in the input of index.php and put the values in the database.

It will also check if a proper socket connection is made and links the database.php for that purpose database.php as included in the process.php file checks whether a proper socket connection is made to the MySQL Database and returns error exception if the socker fails to connect.

Once, this is verified by this command, it makes the desired connection so that process.php can do the desired Insertion of Values in the MyUser Table of the User database.

After the successful run of the 3 PHP files at the back-end, we can see that the values have been successfully updated.

The following image shows 2 rows of the updated values.

With this we observe that with the HTML Webpage, we are able to take user input on a local host server and put the data into MySQL Database.

Docker has helped by providing the desired link between the 2 containers in the "beenet" network.

The use of PHP Server at the back-end has helped link the data with a single interface at the backend.
We are with 3 files able to integrate the whole system and work as a whole.