

System Administration Project - Final Report

Title: GUI for docker basic commands

Project Id:4

Objective:Creating docker platform for users where they can host multiple images on different containers.

Team:

Name:Kushagra Arora

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Efforts:High(Django-backend,docker-py API)

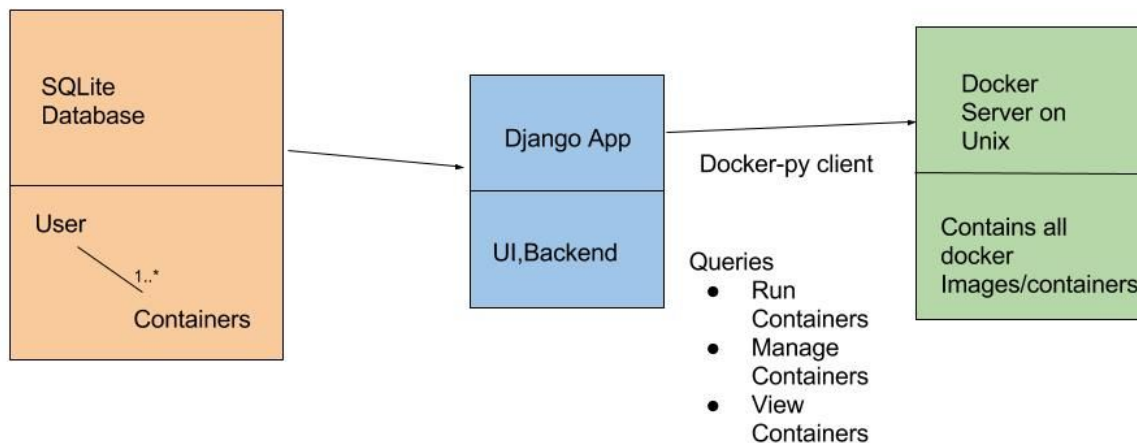
Name:Gunkirat Kaur

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Efforts:High(Django UI,database,docker-py API)

Architectural design:



Software prerequisites:

- Django-1.10
- docker-py API
- docker server

Link to source-code:

<https://github.com/kushagra7589/SA-Docker/tree/master/dockPlat>
<http://bit.ly/dockPlat>

Summary of the midsem demo:

1. Told to make a docker platform where user can give their image you have to create a container for their site.
2. No need of making a LDAP site with google authentication

Progress after midsem demo

1. After midsem demo implemented a Django app which takes input a image from user and host it on a docker container using docker-py API.
2. The User can host multiple images on docker,can view list of all the containers,running container and exited containers.Also we give the functionality of start,stop,pass,unpause and delete a container to user.

Unfinished task:

In our Django app we take image from the user which already contains a Dockerfile. So we were unable to produce Docker file of each image given by user.

References:

<https://docker-py.readthedocs.io/en/stable/api/#containers>
<https://prakhar.me/docker-curriculum/>
<https://prakhar.me/docker-curriculum/#our-image>
<https://docs.djangoproject.com/en/1.10/>