Required Software:

* Docker Desktop – for up and run the docker container in Windows

project folder structure:

Root folder: D:\work\rackspace (based on my development)

D:\work\rackspace:

**App –** application related PHP source

**docker-files** (PHP Docker- PHP\Dockerfile, Apache Docker- Apache\Dockerfile , Apache config file - Apache\apache-conf\\*, Apache https SSL certificate - Apache\apache-conf\ssl)

**db\migrations** – need to keep migrations script

**res –** static resource (css, js, img)

**tests** – Test script

**vendor** – external library

**.env** – docker environment values and config details

**Bases.sql –** base mysql dump

**Composer –** required php external library details

**docker-compose.yml –** docker compose file

index.php - application bootstrap

List of External Modules used in this project:

Composer require robmorgan/phinx - Simple PHP Database Migrations

Composer required phpunit/php-timer – PHPuntil framework

All the modules already included in the composer.json

**Download and Install external library using composer:**

* Composer install

**Apache https SSL certificate:**

docker run --rm -v D:\work\rackspace\docker-files\Apache\apache-conf\ssl:/certificates -e "SERVER=server.example.com" jacoelho/generate-certificate

\*\* Not a mandatory, if you need to run the app https then only required

**Composer UP CMD**:

* Cd D:\work\rackspace
* docker-compose up

**document .env file**

|  |
| --- |
| **# Apache VHSOT**  APACHE\_HOST=rackspace.example.com  **#shorty alias VHOST**  HOST\_SHORT\_ALIAS=rs.io  **# MySQL**  MYSQL\_VERSION=8  MYSQL\_HOST=mysql  MYSQL\_DATABASE=rackspace  MYSQL\_ROOT\_USER=root  MYSQL\_ROOT\_PASSWORD=root  **#REDIS**  REDIS\_PASSWORD=rackspace |

**migrations migrations:**

* **cd** D:\work\rackspace
* ./vendor/bin/phinx migrate #improt all date in to database
* ./vendor/bin/phinx rollback #rollback all the change

**Add hosts file entry (C:\Windows\System32\drivers\etc\hosts):**

127.0.0.1 rackspace.example.com

127.0.0.1 rs.io

Check the URL is working in the host machine browser:

<https://rackspace.example.com> – open the home page

<http://rackspace.example.com:8080> – phpMyAdmin

<http://rs.io> – local shorty server and it’s just alias for webserver