

Assignment 11: Docker File

Overview

Based on the knowledge and skills you have learned from the readings and videos resources, set up the dev environments using Docker Containers and submit a Docker File.

The main purpose of this assignment is to evaluate whether or not you have learned to set up the dev environments.

You will be assessed on your achievement of the following course learning outcomes:

- Describe different types of testing approaches in web application development to mitigate risk
- Name different types of software testing approaches and methodologies
- Develop a testing and deployment plan to mitigate risk
- Summarize the continuous integration and delivery (CI/CD) process for code delivery of web applications

Task:

Set up the dev environments using Docker Containers and submit a Docker File

Detailed Instructions

- You will submit a dockerfile with a README.md file that will contain instructions on how to get the web application running on localhost:7775 (127.0.0.1:7775)
- DockerFile will have to satisfy the following requirements
 - You will create a development environment that displays a <h1> tag with the text "Codin 1" website using [Create React App](#)
 - You will create a container with the name "lastName_firstName_coding_assignment11"
 - You will host the site files in a workdir called "lastName_firstName_site"

Supporting Resource

You can use the following articles as reference:

- [Dockerize your React app](#)
- [Dockerizing a React App](#)
- Next.js website with Docker Compose: <https://dev.to/scaabel/containerizing-a-nextjs-application-for-development-204d>

These dev environments will ensure that everything is configured and installed to properly get the website up and running.

Submission

- Submit your assignments through the LEARN Dropbox along with a link to the Github repo.
- To submit this assignment, click on the assignment link in the content area and then follow the instruction given there.
- Alternatively, you can also have access to the same assignment via the navigation bar. Click on 'Assignments' on the navigation bar in LEARN. From the drop-down menu, find Dropbox and then click on it. It will take you to the assignment section. Click the assignment you wish to complete.
- Read the assignment descriptions carefully and complete accordingly.
- Submit your assignment by going to the Submissions area further down on this page and uploading your file and link

Due date

- Before starting Module 2

Evaluation

- To complete this course successfully, you must complete and submit all the assignments and secure at least (50 %) in aggregate
- A rubric or guidelines will be used to evaluate the assignment

Grading

- This assignment is worth 10% of your final grade

