



## CS 470 Module Two Assignment One Guidelines and Rubric

### Overview

In this lesson you will build on your previous work with Docker by creating two containers, one to host an Angular frontend application and one to host a Node JS backend REST API. For this assignment, you will make a copy of the published code and deploy it into containers.

### Prompt

Follow the [CS 470 Module Two Assignment One Guide](#) to containerize the full stack application. Below is a summary of the steps you will need to complete for this assignment.

- Create containers for the Angular frontend and for the MEAN REST API and MongoDB backend.
- Run both containers.

Specifically, you must address the following rubric criteria:

- Author the dockerfile scripts for the frontend.
- Author the dockerfile scripts for the backend.
- Compile run scripts to "prove" that they are working on your machine.

### What to Submit

- Submit the dockerfile to Brightspace.
- Submit the following screenshots to Brightspace:
  - Docker images command output
  - Angular frontend running in the container, showing the URL on the local host
  - LoopBack explorer frontend running in the container, showing the URL on the local host

### Module Two Assignment One Rubric

Criteria	Proficient (100%)	Needs Improvement (75%)	Not Evident (0%)	Value
<b>Frontend Container</b>	Correctly authors dockerfile script with no syntax errors	Shows progress toward proficiency, but with errors or omissions; areas for improvement may include syntax errors or missing commands	Does not attempt criterion	40
<b>API and Backend Container</b>	Correctly authors dockerfile script with no syntax errors	Shows progress toward proficiency, but with errors or omissions; areas for improvement may include syntax errors or missing commands	Does not attempt criterion	40
<b>Run Containers</b>	Creates and runs containers using the authored dockerfiles	Shows progress toward proficiency, but with errors or omissions; areas for improvement may include incorrect port settings, or the application not running	Does not attempt criterion	20
<b>Total:</b>				100%