



CS 470 Module Eight Assignment Guidelines and Rubric

Overview

In this assignment you will make one final submission to your GitHub portfolio, the Final Reflection, which will contain a link to your presentation. GitHub provides a way for you to catalog your learning and showcase your best work to future employers. Reflecting will help add context to refresh your memory when you review your GitHub portfolio in the future.

Prompt

You have finished developing a full stack web application in the cloud. In the final iteration, you completed the API and tested the project, then you documented the process using a presentation. In this assignment, you will summarize the specific skills you learned in CS 470 and apply this to a description of your strengths as a developer, based on your qualities, skills, and experiences. Additionally, you will synthesize your knowledge about cloud service concepts to describe how you would plan for the future growth of your web application. The “Planning for Growth” section will highlight your ability to think ahead, and to apply complex concepts to planning for scale and elasticity in the cloud. This section is weighted more heavily than the other two criteria.

Specifically, you must address the following rubric criteria:

- **Experiences and Strengths:** Explain how this course will help you in reaching your professional goals.
 - What skills have you learned, developed, or mastered in this course to help you become a more marketable candidate in your career field?
 - Describe your strengths as a software developer.
 - Identify the types of roles you are prepared to assume in a new job.
- **Planning for Growth:** Synthesize the knowledge you have gathered about cloud services.
 - Identify various ways that microservices or serverless may be used to produce efficiencies of management and scale in your web application in the future. Consider the following:
 - How would you handle scale and error handling?
 - How would you predict the cost?
 - What is more cost predictable, containers or serverless?
 - Explain several pros and cons that would be deciding factors in plans for expansion.
 - What roles do elasticity and pay-for-service play in decision making for planned future growth?

What to Submit

This assignment will be scored according to the rubric below. Submit your work in two places.

- Submit a PDF of your complete reflection to GitHub. Your heading should include the following:
 - Your name
 - The date
 - Assignment name: CS 470 Final Reflection
 - A YouTube video link to your presentation
- Submit your CS 470 Final Reflection to Brightspace as a PDF file.

Note: GitHub was used to repo the necessary files for containerization of a MEAN stack. You may also place the dockerfile and Docker Compose file in GitHub, although this is not required. Due to the nature of cloud services and the security features that create unique IDs, it would be both redundant and a security risk to post any of the AWS code to GitHub. This is why the only artifact for your GitHub portfolio for CS 470 is the Final Reflection, which contains a link to your presentation video.

Module Eight Assignment Rubric

Criteria	Exemplary (100%)	Proficient (80%)	Not Evident (0%)	Value
Experience and Strengths	Exceeds proficiency in an exceptionally clear, insightful, sophisticated, or creative manner	Explains how the course helps the student achieve professional goals by identifying potential roles as well as marketable skills and strengths	Does not attempt criterion	30

Planning for Growth	Exceeds proficiency in an exceptionally clear, insightful, sophisticated, or creative manner	Synthesizes knowledge about cloud computing by identifying various ways that microservices or serverless may be used to produce efficiencies of management and scale	Does not attempt criterion	50
Articulation of Response	Exceeds proficiency in an exceptionally clear, insightful, sophisticated, or creative manner	Clearly articulates complex technical information to both technical and nontechnical audiences. Uses tools to produce visual information to describe the functionality and purpose of the project	Submission has critical errors in grammar, sentence structure, and spelling, preventing understanding of ideas	20
Total:				100%