

City University of New York (CUNY)

CUNY Academic Works

Open Educational Resources

Hunter College

2020

CSCI 49378: Final Project Assignment: Distributed Systems and Cloud Computing

Bonan Liu
CUNY Hunter College

NYC Tech-in-Residence Corps

[How does access to this work benefit you? Let us know!](#)

More information about this work at: https://academicworks.cuny.edu/hc_oers/23

Discover additional works at: <https://academicworks.cuny.edu>

This work is made publicly available by the City University of New York (CUNY).
Contact: AcademicWorks@cuny.edu

Final Project: Develop an easy-to-scale, highly available and high-performing web service

CSCI 49378: Introduction to distributed system and cloud computing

Last Updated: 2/16/2020

Requirements

- You should host your web service in a cloud platform you chose.
- Your web service should be available online during **the entire week** of your presentation.
- You should use at least **1 computing product** from your preferred cloud platform.
- You should use at least **2 storage products** from your preferred cloud platform, 1 of which should be a database product.
- You should design monitoring mechanism for your web service.

What are NOT important¹

- The UI/front-end/UX is not important
- The amount of features is not important
- The business idea for you project is not important

What are important

- Whether you have the proper architecture and whether you choose the proper product(s) for your web service.
- Whether your service could perform and scale well.
- Whether you have proper ways to monitor the service and whether your service is highly available.

What will be a big plus²

- Use more than required cloud products
- Use multi-cloud implementation
- Use additional analytics products or advanced products

¹ These aspects are not important only for this course because we are focusing on designing a high-performing, easy-to-scale and highly available system. However, in the real world, all of them are critical for the success of a product.

² a.k.a bonus in grading.

Important Dates

- 3/4/2020: Form a team and submit student names to bl1579@hunter.cuny.edu. Each team should have 2-5 students. A team leader is optional.
- 3/17/2020: Submit a the design document to bl1579@hunter.cuny.edu. The design document should explain:
 - What will be developed
 - The high-level architecture of the web service
 - What cloud products/services would be used
- 3/18/2020: Design document presentation.
- First day of your final presentation week: Your service needs to be live online for the entire week.
- Your final presentation date: Submit the source code of your services.
- Post final presentation: Submit peer review to bl1579@hunter.cuny.edu for your teammates. A template will be available for writing the peer feedback.