**Northeastern University – Silicon Valley**

CS6620 Cloud Computing

**Project Proposal** [50 points]

Please submit your work online as a single PDF.

It is time to prepare a project proposal, to think about and define your final projects.

We will have groups of 4 students each. TA team finalized this already. For this project, you will design, implement, and thoroughly test a Cloud App or Platform, implementing some cloud app on AWS.

**Requirements**

Since this is a course in Cloud App or Platforms, we want it to have “interesting” features from a cloud systems perspective. Here are some important properties your system should have:

1. The system must represent a small, complete cloud usecase (SaaS or IaaS) using AWS.
2. **KEY Req:** Implementation must include at least 4 significant cloud features and functionalities of a typical cloud app or platform. See the key AWS features and functionalities we elarned about, and the basic concepts (like multi-tenancy).
3. No need to make very ipmpressive GUIs. Please focus on the fucntionality.

You can choose your own application, in the overall and the detailed design of your implementation.

With this understanding, try to come up with a basic, useful implementation use case.

Here is an example of ideas for implementation: Build a multi-agent chat and notes exchange system.

Additional examples –

<https://www.skyfilabs.com/blog/top-20-best-cloud-computing-final-year-projects-for-cse-students>

<https://www.skyfilabs.com/blog/10-easy-cloud-computing-projects-for-beginners>

Please prepare a 3-5 page proposal with the following sections:

1. summary description of the project usecase
2. architecture overview diagram (AOD) and design description
3. implementation approach (high-level design)
   1. what libraries will use and how will you implement the project
4. key cloud features and functionalities involved (must include at least 4 significant cloud features and functionalities we covered.)
5. expected results

Submit your proposal as a 3-5 pages PDF by 10/15/21.