

Hello Students,

We hope that you are in good health.

The purpose of CS699 is to prepare you with a basic grounding in software tools and processes that will hold you in good stead for a research program at CSE Dept.

Whereas Reviews 1 & 2 tried to help you articulate a problem and with our help, you sized it better. We expect the final project submission to be of “reuse” grade which means somebody should be able to take ownership of your code and extend it in the future.

For this purpose, we expect extensive documentation and properly commented code.

We will be looking for the following attributes:

1. originality (novelty) and for
2. proper understanding and use of version control,
3. load-balancing amongst yourselves,
4. quality of presentation (both ppt and classroom presentation),
5. elegant use of language,
6. graphs and illustrations in docs
7. idea relevant to a real-world context
8. most importantly proportion of requirements (deliverables) that have been successfully

All these and alternate aspects will be marked.

Here is the list of things you are supposed to submit:

1. Full implementation code with proper comments and coding style.
 - a. Code should be organized in folders of separate modules. Folder names can be, for example, frontend, backend, main_app, and so on.
 - b. A layman can't understand your code if it's not well commented, so put enough comments wherever possible. Make use of docstrings for each module, class, etc.
 - c. [**NOTE:** This is recommended but not mandatory]
Follow standard coding styles such as PEP8 for Python. You may use available linters in VS Code, IntelliJ IDEs such as flake, pylint that will help you follow the coding style.
 - d. Cite the reference links at the line of code which has been taken from the Internet, even if you have made slight modifications to it.
2. Code Documentation generated using Sphinx for Python or using Javadoc for Java (submit the entire 'build' folder which you get after building).
3. Final code must be available at Github main branch.
 - a. Individual work done by each member should be present in their respective branches.
 - b. Once the project is completed, you should merge these branches to main via Pull Request. **DO NOT** delete the branches after they are merged.
4. User Manual (README.md file) should include:
 - a. Problem Statement or Motivation.
 - b. Sell your product/service (One sentence).

- c. List of features.
- d. Technology Stack (highlight ones learnt in CS699)
- e. List of deliverables (tick mark those which are complete).
- f. Hardware/Software Requirements.
- g. Well explained, "how to operate".
- h. Primary stakeholders of the product/service built
- i. Team details along with the contribution.
- j. Path to Code Documentation (index.html).