CS 5007 Course Project Proposal (10 Points)
(Due: 11:59 p.m. on Oct 4ᵗʰ, 2020)

Your project proposal should be at **least 2 pages** or more to include the following sections, answers, and elements. You can include any figures and tables to supplement your explanations and descriptions in your proposal. **Note: (1) Each group only submits one PDF copy and (2) each page format should be 1-inch margin, Times New Roman, 11 pt, and Single Space.**

(A) Project Title:
(B) Team Members:
(C) Proposal Content:

- What is the nature of this project? Are you developing **an application**, solving **a domain specific problem in your field**, or **any topic** that you are interested? (**2 Points**)
  - o Give a brief but precise description and background of your chosen project, as well as the application/problem/topic that your team is trying to develop or tackle.
  - o Why is this application/problem/topic important for your team to work on in this project?

- How will you address the project that you choose above? Your proposal description should include the following information:
  - o Describe **a preliminary task plan** to address the topic in your program development process (**2 Points**):
    - ▪ What are the inputs and outputs?
    - ▪ What are the high-level solution process?
    - ▪ What are the test cases to evaluate your solution process correctness?
    - ▪ What are the Python libraries that you may use to complete your coding process?
    - ▪ How do you document your program codes?
  - o Provide a *task table* to include all the functions/capabilities that your final project will deliver. (**1 Point**)
  - o Draw a timeline schedule that lay out all the identified tasks from the table to be undertaken for the rest of the semester week by week. (**1 Point**)

- What is the final deliverable of your project? How will you evaluate your final deliverable? That is, you need to describe how you will measure the performance or success of your project What methods will you use to assure your final product really performing and successful. (**2 Points**)

- What is a list of expected background material you plan to learn about for your project, such as a list of related literature papers, a list of manuals and URLs of tutorials for an application, DBMS, development tools, software environment, system architecture, Python libraries, etc.? (**1 Point**)

- Discuss some key important concepts and methods that you find in the above list of your related materials and how they are useful to your project. (**1 Point**)

Grading:
The grading will primarily be based on the clarity of your project proposal in terms of the deliverables and answers described above. Overall, your understanding of the project, its anticipated scope, timeline, etc., should be clearly articulated. A preliminary feasibility assessment is important. The readability and professional quality of your document will also be taken into consideration when assigning the grade.