Instructions: This is a take-home final examination. It is open book. You may refer to course notes, and any books, written materials, or web sites that you may find useful. But collaboration is not allowed. You must not discuss the final examination questions with other students, and you may not make use of ideas, advice, or suggestions from any other person, student or otherwise. Your answers to these questions must be entirely the products of your own thought processes.

Note that there is a page limit for the answers to each of these questions. I do not plan to read more than the stated number of pages of your answer to either of these questions. The pages may be in any type font of any size, as long as it is not smaller than 11pt., with one-inch margins. You may NOT use single-spacing. As in the past, quality is far preferable to quantities of words. Think a lot, and then write only a small amount.

Question 1: (your answer should not be longer than two pages): The role of stakeholders: Write a short essay on how consideration of the stakeholders for a software product should influence key issues in software development. In class we have noted that there are a number of ways and places where the stakes of the various stakeholders for a software product should shape decisions about software products, processes, and approaches. For this question you should describe what you consider to be the most important software development aspects for which these stakeholder issues should be taken into consideration. For each of the aspects that you have identified, your answer should explain how stakeholder issues are taken into consideration, and why you think that these aspects are of the greatest importance.

Question 2: (your answer should not be longer than three pages): A scenario: Suppose you have been selected by the President of the United States to lead the evaluation of the software development approaches being taken by the Federal Aviation Administration (FAA) in the development of the NextGEN system. The NextGEN system is intended to improve the effectiveness of the FAA’s administration of the National Air Space (NAS). New hardware and software technologies are to be used to allow closer spacing of aircraft, more automation of flight activities, etc. The NextGEN project has been underway for a few years now and the government has been spending several billion dollars per year on it. The program is expected to continue for several more years, with expenditures being at least this large for each of the coming years. At this point, the President and Congress are wondering how things are going. They have approached you and asked that you lead a review of the NextGEN program. At this time they are asking for a short report on how you plan to approach this review. As the President and
Congress are very busy, they are not willing to read more than two pages of description of your plans.

Your report should include:
   a. A list of the most important issues that you are proposing to explore with your committee. For each of these issues you should include a very short description of why you think the issue is of greatest importance.
   b. A description of the different kinds of people that you propose to invite to testify before your review committee, indicating why each is being selected.
   c. A description of the different kinds of people that you are intending to invite to be members of your committee.
   d. Any other plans or issues that you think are important.