Assignment-2
Saturday 30-12-2023 @ 23:59 pm
Requirements

Overview
- The goal of this assignment is to develop use-cases to help you elicit the requirements, and then to develop a requirements document for your system..

Deliverables
1. **A requirements document 40%**
   - Use the product description of the project proposal as a starting point, and develop a requirements document for your system
     - 10 **major features** you will implement.
     - 2+ stretch features that you hope to implement.
   - Note:
     - As discussed in class, the requirement must include **the user and system/specification requirements**.
     - Your requirements must be Correct, Consistent, Unambiguous, complete, and testable, etc. as discussed in-class
     - You may choose a template, but your requirements must be detailed, readable, and capture all the essential information we have discussed in class.
     - Remember, you will build this system later, and if you have a poor requirements document, you will run into problems. You will be graded on what the system ought to do (as opposed to what you think it should do).
     - Do not invent many unneeded requirements. Focus on the core functionality of your system and do not add "things that would be nice to have".
     - You must write detailed requirement specifications that capture what the behavior of the final system should be, including defining functionality, specifying properties that the output of the system must follow to be considered correct.
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2. **Use Cases (Functional Requirements) 40%**
   - Each team member must develop and describe **five use cases** of the 10 functional requirements (question -1).
   - Each use case must include the following:
     1. Actors
     2. Triggers

3. Preconditions
4. Postconditions (success scenario)
5. List of steps (success scenario)
6. Extensions/variations of the success scenario
7. Exceptions: failure conditions and scenarios

3. **Non-functional Requirements (10%).**
   ○ **Describe** at least three non-functional requirements, e.g., related to scalability, usability, security and privacy, etc.

4. **Team process description (10%)**
   ○ Specify and ****justify**** the software toolset you will use. What programming languages, data sources, project trackers, and other tools will you use? What, if any, software components will you attempt to use "off the shelf" versus implementing them from scratch? Explain why you chose these tools and languages, as well as why they are suitable for your project.
   ○ Specify and explain at least **Four significant risks** that could prevent you from completing your project. How do you mitigate those risks?

Deliverables
You are required to turn in the requirements document, your use-cases, and a use-case diagram. You can put your use-cases and diagram as a chapter in your requirements document.

Submission instructions:
Canvas – at least one member of the team should actually submit.
   1. **ProjectName_LastName1_LastName2-Requirements.pdf**