Waterfall

**Open a GitHub account for each of the team with a public repository (will be**

**used for your individual project).**

* **Open a team account on GitHub (do not use your personal account!), create a public repository and submit that link. Your team will work out of this repository.**

done

* **Choose a software development cycle that is appropriate for this project and for your team. Give a brief rationale as to why you choose this SDLC rather than others.**

We chose the waterfall develop cycle. This is because the software we are developing for the security system is one that requires all parts of a step to be complete to move on to the next. To maintain a high level of security the requirements should be well understood at the beginning of the project and should only have minimal changes made to it. We also want the requirements to remain as tight as possible. Because of this lack of change it is easy to complete this system in a very step my step process, also to ensure everything necessary is complete before moving on.

**Create a project plan and submit this document. This is meant to help you do some upfront design,  role  assignment,  task  breakdown,  and  hours  monitoring.  Specifically,  the  report will include:**

* + **A brief description of your project (i.e., one paragraph), what you are doing, what features and functionality the system will have. The URL to your team repository should be included here.**

Our project is a security system for an office building. It should be able to scan preauthorized NFC cards to allow specific employees in specific doors within the working hours.

<https://github.com/Security-System-Company/COSC-310-Project>

* **Your chosen SDLC and rationale for its suitability (max. one paragraph).**

Waterfall because fuck you thats why

* **In point form:  A listing  of all the phases of the  SDLC, where each phase should  have at least 3 tasks. Here, make sure at least two of the tasks have subtasks. Give your phases, tasks, and subtasks meaningful labels -- run your labels by the TA if you're not sure they are easy to understand by a third party.**
* REQUIREMENTS
  + :(
* SYSTEM AND SOFTWARE DESIGN
  + Doors go brr
* IMPLEMENTATION AND UNIT TESTING
  + Connect it to the processing thingy to make virtual doors go brr. Fake (?) NFC card taps the fake door and it opens. DOESNT open if its not the right card or the time isnt right
* INTEGRATION AND SYSTEM TESTING
  + WHAT DOES THIS EVEN MEAN
* OPERATION AND MAINTENANCE
  + It works and we like the fact that it works and we just keep the logs updates and clean
* **A  Work  Breakdown  Structure  (WBS)  showing  task  assignment  to  each  team member, estimated duration of the task in hours (round to nearest half hour), and actual  duration  of  task  in  hours  (round  to  nearest  half  hour).  Provide  a  brief explanation of your WBS.**

So many hours but I will only be using the last two to do everything at once xoxo

* **A Gantt chart of your tasks, showing start and end dates for each task, and showing dependencies across tasks. Provide a brief explanation of your chart. Don't  forget  that  this  assignment  is  not  just  about  coding.  So,  when  you  develop**

Gnatt charts are actually super cool this looks like fun