

Project Requirements

The purpose of the Project Requirements assignment is for you to describe your project in more detail than in your prospectus. You should approach your project in an orderly manner by defining the problem and overall requirements and choices before you undertake the programming work.

The report contains your initial understanding of the requirements and design of your project (see below Written reports section to know what is expected in the report). You will take the feedback provided by the instructors and what you have learned over the semester to provide a better design specification report later.

At least 2 days before the due date, you should deliver a copy to your sponsor to allow them to read and okay your document.

Prepare your document in a **1.15-spaced** format with a **12-point font**. The document must be **two to three Full written pages MAX**.

Written report

If you have any questions, please discuss the content of your project requirements with your instructor. Use citations as appropriate and **do not bullet point descriptions**.

- **Title Page** (* not included in length of paper) – The title of your project, your info (name and email) along with your sponsor's info (name and email).
- **A short (paragraph) Project overview** – Describe what the topic of the problem entails - its context/purpose/story and your motivation or reason (without specifying any languages or tools and do not rehash or state the MVP).
- **User requirements**
 - clearly explain the Minimum Viable Product (it is possible to alter the MVP later *see the More information section below) to complete the project successfully (**the MVP must be approved by your sponsor and the instructor[s] of the course**), you may also define other product features that you plan or desire to deliver beyond the MVP. Again, not bulleted lists, but a paragraph.
 - include disclosure of any code used in another CS course you plan to use while developing your project.
 - Application projects - briefly describe in generalizations the different types of system users (what are the main reasons for different users, administrator, employee/member, regular user,

etc.). Include at least two user stories for each user of your system that supports your MVP (**do not go into specific details** e.g. a user goes to page x and clicks button y, the details will be in other documents later).

- Research projects - in lieu of user types and stories, who will benefit from the project (this could be multiple people) and what questions you are trying to answer/solutions you are trying to find.
- Video Game projects – a detailed game play loop (how a player interacts with the game, game functionality, rough idea of mechanics). Simply stating roguelike, shooter, or basic genre will not suffice.
- **Design Choices** - Describe what possible technology languages, tools, frameworks, databases, datasets, etc. you are considering or could be used for a project like yours (this should come from your research into the project). You should have multiple possibilities to compare and contrast by discussing the advantages and disadvantages of each similar technology in relation to the needs of your project (not generalized aspects of the tech). Later, if your selected design choice doesn't work out, this will provide alternative options to choose from. DO NOT inform the reader what you plan to use for the project.
 - **External Components** - Provide an estimate of each external components makeup for the project (how much of the project come from these components and include links to the applications or tutorials)
 - List all external applications - API's – if used.
 - List any code not developed by you or tutorials - if used
- **Project timeline as a list** – Must include upcoming milestones (do not list dates that have already past), that is, the major tasks and the target dates for completion (both your dates and the courses due dates).

Convert your document to a pdf and submit your report by the due date to Blackboard.

More Information about altering your MVP

Any additional functionality made to your MVP throughout the semester is allowed and highly encouraged. A change of project description or topic must be made as a formal request in writing to your instructor with sponsor approval and as earlier as possible. The faculty will use the MVP to evaluate your project at the end of the semester. NOTE: if you make changes that are not approved, they will not be considered in the evaluation of your final project.