

Assignment-1**Vision Statement (Project Proposal)****Due: Monday, January 15 at 23:59 pm****Overview**

- The goal of this assignment is to develop great ideas about how to improve software development.
- You are allowed to propose whatever project you think is interesting and valuable.
- This assignment must be completed in groups of 2. If you do not have partner, submit the vision statement by yourself, leaving the partner name blank.
- You will work with your partner, in hopes, to convince classmates that your idea is awesome.
- You should discuss your vision, your proposed approach, and risks.

Deliverables

You will produce two deliverables for this assignment:

- A document consisting of few pages about an idea for a solution. Examples: a web application, mobile application, etc., and
- A presentation consisting of 1-5 slides (the title slide, if any, counts as a slide).
- For anything that you submit in CS361, place the names and onids of your team members on the first page .

Tips

The vision statement should contain the following information:

- Your team name, team onid, and project name (try to make up a short, catchy name for your project).
- What's a problem you have noticed that someone might be encountering in the world?
- What evidence do you have about this problem—did you read it in the news, see it on the street, or read it in the research? What are the details of the problem (e.g., how often does it happen? To whom? Why?)? **Cite sources for your evidence.**
- Tell a brief story of what happens when someone encounters this problem in real life/real time.
- How might a software system or application/approach affect/solve the problem?
- What is your high-level application/approach? It should be clear why this approach addresses the key problem.
- State the key difference between your approach and previous approaches.
- What are the features of the system that make it so effective or useful? (For example, how does this system make a task or activity more efficient or easier?)
- State limitations, if any, of your application/approach.
- The resources you will need to complete the project. This includes software, or hardware, documentations or descriptions of database you propose to access, etc.
- What is the single most serious challenge you see in developing the product on schedule? How will you minimize or mitigate the risk?. Be **specific** and **concrete**. Don't give generic risks that would be equally applicable to any project.
- You *might* give the system architecture, describing at a very high level the components that will interact in your system along with existing components you might reuse.

Vision Statement Presentation

Each group will give a **5 minute** presentation about their proposed project topic to the class. All group members must participate in some way in the presentation. The **five-minute** rule will be **strictly enforced**.

Grading

Your grade is not based upon whether your vision statement is chosen by your classmates to be implemented. Rather, your grade is based on the quality of your document and presentation. However, your vision statement should include answers to the following questions (but is not limited to):

- Does the vision statement outline a real world problem and affected users?
- Does the vision statement demonstrate critical thinking in terms of proposing a solution/approach that could possibly help to solve the stated problem?
- Does the vision statement outline the differences between the proposed approach and the previous approaches?
- Does the vision statement outline some challenges/risks and how they will be minimized?
- Does the vision statement provide a reference for all quotes, images, and other materials borrowed from elsewhere?

Submission instructions:

- **Canvas** – one member of the team should actually submit these files.
 - **student1-onid-student2-onid-doc.pdf** that contains your vision statement. (under **Assignment-1 (Vision Statement)**) **(75 points)**
 - **student1-onid-student2-onid-slides.pdf** that contains your presentation slides. (under **Assignment-1 (Vision Statement)**) **(10 points)**
 - You also need to submit your vision statement under the discussion page titled Vision Statements in the Week-1 Module. **(5 points)**
- **The class github repository** **(10 points)**
 - Vision Statement, as a tex file.
 - Any support files necessary to compile your tex.
 - A single makefile to build your tex file. This makefile should include both an all option (which compiles your Vision Statement) and a clean option. Feel free to use of the makefiles and examples in the Canvas, but you will have to modify them for this purpose.
 - Create a new branch of your repository called “**Assignment-1**” contains your final submission. This branch must be created before the due date to receive credit.

- Please submit **ONLY one submission per group.**

**** Add a comment in Canvas and give the URL for your fork (under Assignment-1 (Vision Statement)).**
(-10 points for not providing your URL)