

# Assignment-1

## Vision Statement (Project Proposal)

### 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 a 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

1. Write a 1-2 page proposal document (PDF)
  - Pick a short and catchy title.
  - Introduce your project idea. What's a problem you have noticed that someone might be encountering in the world? What evidence do you have about this problem
  - Discuss your vision and a **competitive analysis**: explain what makes your idea different. State the key difference between your approach and previous approaches. You should spend nearly as much time understanding what already exists as you do coming up with something new. For example, don't propose to develop a web search engine without knowing that Google exists. Clearly explain what differentiates your project from the alternatives. Differentiate the top-level objectives, target customers, scope, and technical approach of your product from existing, alternative products. Indicate what is novel about your proposed features. Don't belabor features that are standard in existing packages.
  - Discuss your proposed technical approach: explain what system architecture, technologies, and tools you may use. Include mockups if you are proposing a system with a GUI.
  - Highlight the single most serious challenge or risk you foresee with developing your project on time. How will you minimize or mitigate the risk? Don't state generic risks that would be equally applicable to any project.

Note: What is a **competitive analysis**?

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2. A presentation consisting of 1-5 slides (the title slide, if any, counts as a slide).

**Submission instructions:**

Canvas – one member of the team should actually submit these files.

1. **ProjectName\_LastName1\_LastName2-PROPOSAL.pdf** that contains your vision statement.

1. **ProjectName\_LastName1\_LastName2-SLIDES.pdf**