PRDv2: Your Living Requirements Document: A Shared Google Doc

- Authors, Team, Project Title
- Intro: problem, innovation, science, core technical advance
  - Define project specifics, team goals/objectives, background, and assumptions
- System architecture overview
  - High level diagram (1 page)
  - User interaction and design (1 page)
- Requirements (functional and non-functional)
  - User stories or use cases (links) → 20+ for PRDv2 prioritized
  - Prototyping code, tests, metrics (10+ user stories): github commits/issues
- System models (1+ pages)
  - Contexts, interactions, structural, behavioral (UML)
  - Use cases, sequencing, event response, system state, classes/objects
- Appendices - Technologies employed
Summary of PRDv2 Milestone

- Revise spec to add detail to the functional specification to match your design
- Add user stories and break up the stories you have into finer grained stories
  - Provide UML, sequence diagrams, dataflow diagrams
  - Goal: a CS senior should be able to take your doc and implement the project
- For each fine-grained story, provide a description and acceptance test
  - Provide time estimates (1 person-hours) for each story implementation
    - Ensure you can finish the implementation in the time you have (this/next quarter)
  - Prioritize tasks to have a complete prototype by the end of this quarter
    - Focus on the externally facing interfaces, mock out what you cannot get to
  - Write unit tests to implement tasks for mandatory tasks
    - Document these tasks (autogen the documentation/usage)

- Prototype designed mandatory tasks
  - Github must have unit tests, documentation (for anything without unit tests), and prototyping implementations

- If you have a user interface
  - Provide mockups that are tied to the functionality described in 1+ components