FIDO
Fully Integrated DOG Organizer
Project Overview

- CAT runs on volunteer students
  - First year volunteers work at the front desk 4 hours a week
- Existing tool for submitting availability is outdated
- We will build a new web application to replace the existing one
  - Students
    - Will be able to submit availabilities for upcoming terms
    - Students can view submitted availabilities for previous term
  - Admin
    - Can create new term blocks
    - View submitted Availabilities
Sponsors

- **Former CATs**
  - Craig Meinschein
  - Jason Owen

- **Have been meeting with us weekly before team meetings**
  - Clarifying MVP
  - Helping us construct a requirements list

- **Made themselves easy to reach outside of meetings**

- **CAT staff**
  - Allowing us to use their conference room for meetings
  - Provided backups storage for project files
  - Gave information setting up the application framework
Project Organization and Process

- Agile methodology
  - Kanban for continuous integration
  - Backlog being filled

- For the first term, we divided roles for the docs and other tasks needed in the beginning of the project
  - Architecture, Specs, Risk, Infrastructure, Tasks, Comms

- Second term the roles will persist, but everyone will also be a dev
  - Pull tasks into input queue from backlog
  - Must QA task you didn’t develop, and develop tasks you aren’t going to QA
  - Will be monitoring team’s activity to ensure each member has good throughput
Spring Project Plan and Schedule

- Week 6: Role Division
- Week 7: Initial WBS, Project plan and schedule, and Risk Management plan
- Week 8: Requirement Specification
- Week 9: Architecture and Design Specification and MVP WBS
- Week 10: Create Midterm Presentation.
- Week 11: Midterm Presentation.
Summer Project Plan and Schedule

- Week 1: Backlog Grooming.
- Week 2-3: MVP Implementation.
- Week 4-5: Beta Testing.
- Week 6-9: Stretch Goals
- Week 10: Create Final Presentation.
- Week 11: Sponsor Delivery and Final Presentation.
Requirements and Specifications Process

Requirements Gathering:
- Sat down as a whole group and talked to the CAT team for Q&A
- After Gathering a good amount of requirements we created the specifications
- Had a meeting to review the specification and refine it with a mob edit

Specifications:
- The requirements for the minimum viable product should be quick to implement
- We were also given stretch goals that we could work on
  - Helpful features for student and admin use
  - More functionality for student use
- Using the specifications we created a project architecture document
Project Architecture

Technology:

- Database -- PostgreSQL
- Scripts -- PHP
- Pages -- PHP
Risks

- What kind of bad things could happen?
  - Team member responding to some emergency/ loss of contact
  - Sponsor disappearance
  - Loss of data/tools
  - Miss communication with sponsor
  - Natural Causes
Risk Management

- Be transparent with teammates.
  - Maybe every subproject should involve at least two members
- Don’t be that guy (who breaks everything)
- Make sure everyone on the team knows how to contribute correctly
- Have multiple, current backups
- Multiple member present at the meeting with sponsors and double check the meeting notes
- Gotta love the nature ;)

V&V (Validation and Verification)

- Testing platforms
  - Unit Tests
- Parts of the MVP to be Tested
  - The Database
    - Terms
      - Dates
    - Students
      - Schedule
      - availability
  - Scripts that interact with the Database
  - User Interfaces
    - Student Interface
    - Admin Interface