
EE/CprE/SE 491 Weekly Report #9
11/8/2024 – 11/14/2024
Group sdmay25-23
Project title: Code Critiquer System for the C Language and Embedded C
Client &/Advisor: Dr. Diane Rover

Team Members/Role:
James Joseph - Secure System Design, CPR E 2880 Liaison
Samuel Lickteig - Backend System Design
Alix Noble - Testing
Andrew Sand - Team Organization, CPR E 2880 Liaison
Owen Sauser - Client Interaction, Frontend System Design, CPR E 2880 Liaison

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- **Weekly Summary**

  This week, the team continued working on the project prototype, getting it closer to the desired state for the next Iowa State semester's test run. Namely, improvements were made to uploading student code projects, running tests, and storing user data in the database. Additionally, the prior advisor meeting was double the normal length and included an interview/discussion session with Dr. Jones and teaching assistant Jonathan Tan, which was highly beneficial for user requirements gathering and feedback. With the faculty panel approaching quickly, the team also began making preparation plans by reviewing the user feedback the group has received thus far, assessing the current state of the design document, and scheduling out how the rest of the semester will proceed.

- **Past Week Accomplishments**
  - James Joseph:
    - Fixed code testing to get proper running and reporting
  - Samuel Lickteig:
    - Set up saving of caught antipatterns to database whenever a student uploads a file
    - Set up some foundation on a branch for TAs, sections, and students
      - Need to talk more about how we are going to set up student/TA account creation/login
  - Alix Noble:
    - Continued work on instructor feedback page.
    - Created sketches of page design

        - Read Bokeh documentation for implementation inspiration
    - Andrew Sand:
        - Began working on the final design document
            - Created the page layout (Formatting, title page, table of contents, etc.)
            - Compiled all of the prior design document fragments into the single document
            - Made some edits and alterations to make information more aligned with current state of project
        - Rewrote the frontend About page
            - Now more of a About/FAQ page
            - Not yet pushed to GitLab however, as some formatting needs to be fixed
    - Owen Sauser:
        - Finished the folder upload functionality.

- **Pending Issues** (If applicable: Were there any unexpected complications? Please elaborate.)
    - James Joseph:
        - N/A
    - Samuel Lickteig:
        - N/A
    - Alix Noble:
        - N/A
    - Andrew Sand:
        - N/A
    - Owen Sauser:
        - In the folder upload, it will throw an error message if there are two files with the same name anywhere in the folder directory.

- **Individual Contributions**

NAME	Individual Contributions	Hours this Week	Hours Cumulative
James Joseph	Fixed code testing	7	44
Samuel Lickteig	Saving caught antipatterns to database Foundation for TA/section/student stuff	5	36

Alix Noble	Worked on instructor feedback page	4	25
Andrew Sand	Worked on final design doc. and updating the About page	4	35
Owen Sauser	Finished folder upload	5	27

- **Comments and Extended Discussion** (Optional)
  N/A

- **Plans for the Upcoming Week**
  - James Joseph:
    - Create tests for individual labs
  - Samuel Lickteig:
    - Work on student/TA integration
  - Alix Noble:
    - Work on instructor feedback page
  - Andrew Sand:
    - Get frontend About page pushed
    - Get the rest of the team access to the virtualized CyBot repository
    - Create an “action plan” for moving forward with the final design document
    - Work on UI Redesign Mockups
  - Owen Sauser:
    - Do the cccignore formatting
    - Try to figure out how to make files with the same name work

- **Summary of Weekly Advisor Meeting** (If applicable/optional)

- Need to start looking toward the faculty panel presentation
  - It will come up fast
  - Basically have just a couple weeks left
- Look into compiling design documents sections
  - Need to get diagrams and visuals created and updated for the project
  - Needs to for sure be done before Thanksgiving break so that we can review them before the faculty panel
- Need to look into use cases
  - I.E. suppose a professor wants to do X thing, then these are the steps to do it
- Might be good to focus on specific antipatterns per lab

- Think of different antipattern types, such as style, technical, syntax, security, logic, etc.
- Two singled out ones that Dr. Rover would like to have are bitwise operation errors and using the correct full-width number types (uint32 and uint64 vs. short, long, etc.)
- Might be good to just hardcode some antipatterns per lab for the time being while keeping the custom antipattern functionality