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## EE/CprE/SE 491 Weekly Report #5

10/11/2024 – 10/17/2024

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 288 Liaison

Samuel Lickteig - Backend System Design

Alix Noble - Testing

Andrew Sand - Team Organization, CPR E 288 Liaison

Owen Sauser - Client Interaction, Frontend System Design, CPR E 288 Liaison

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- **Weekly Summary**

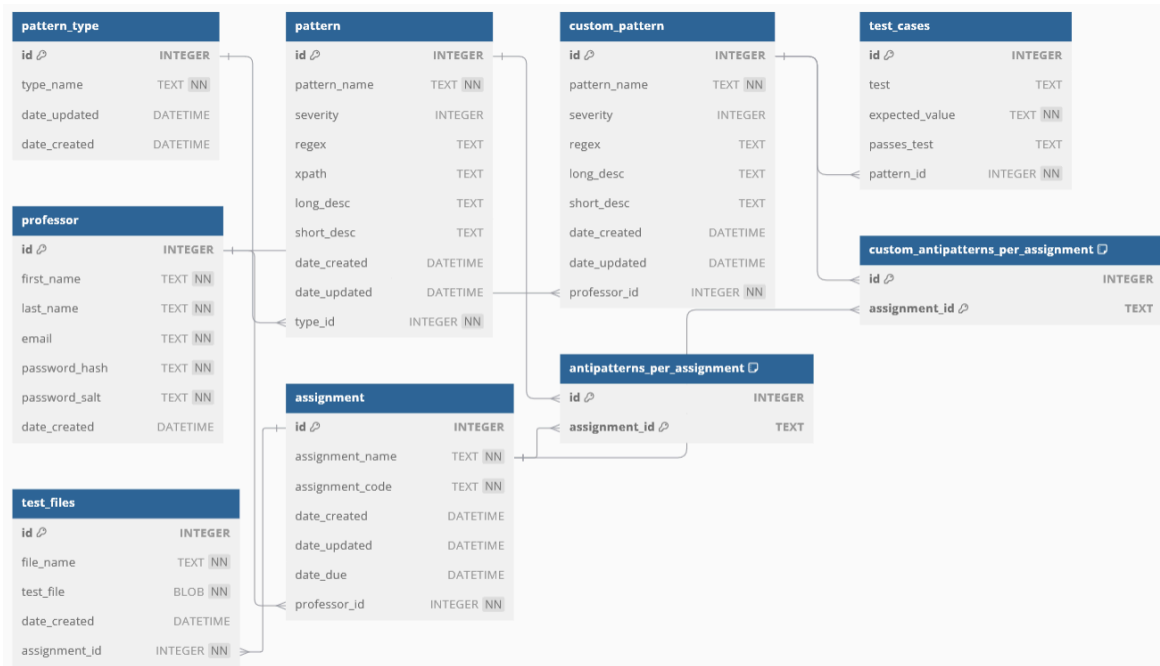
The team is still working towards getting the previous sdmay24-34 group's code up and running, with assistance from one of the prior team members. The group has started working on the team website and gathering the information, images, and files to put on there. Additionally, the team is in the process of contacting Iowa State's ETG to learn more about their CyBots and Code Composer Studio approach. Furthermore, progress is being made on contacting individuals from the project's target user groups, with a document being created to define and document the user requirements gathering process formally. Various members also began familiarizing themselves with some of the project's technologies while creating diagrams to understand its data flow better this week.

- **Past Week Accomplishments**

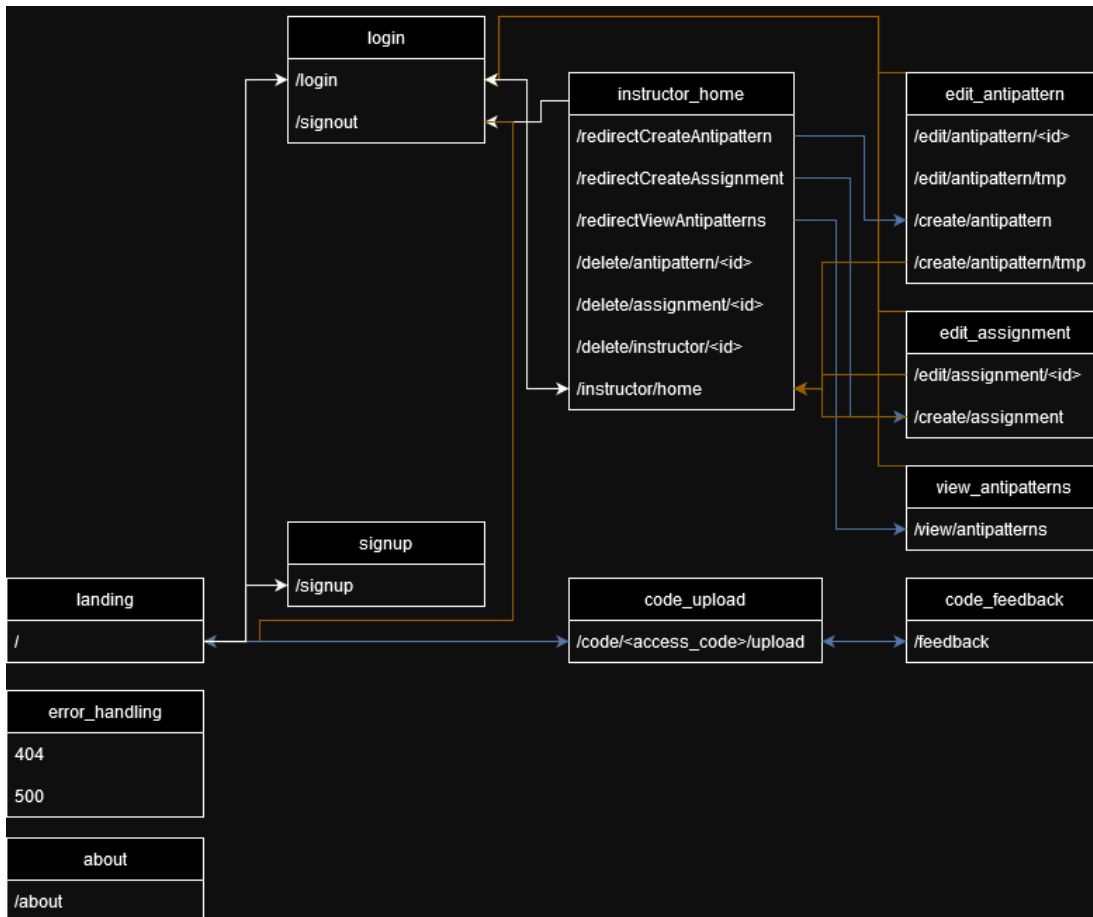
- James Joseph:
  - Reviewed code to create database and site flow diagrams (attached at the end of this section)
  - Notes:
    - Why are assignments referenced by name in the join table instead of ID?
    - Feedback and instructor access are on different paths
    - Instructors login with traditional username:password
    - Feedback uses an "accesscode" as reference
- Samuel Lickteig:
  - Began learning about XPath

- Read documentation on XPath and read through its use in the code
  - Re-educated myself on RegEx
    - Read documentation on RegEx and read through its use in the code
  - Began looking through some backend things to touch up on and adjust
    - Mainly focused on API syntax changes for a few things
- Alix Noble:
  - Began learning about XPath
    - Read documentation on general XPath structure and investigated the use of XPath in the codebase.
  - Added some pictures to the website
- Andrew Sand:
  - Drafted contact email for the ETG
    - Contacting them to determine plausibility of proceeding with targeting Code Composer Studio as a release environment
  - Created User Requirements Gathering document
    - It was suggested in this week's advisor meeting to more formally describe the team's process for gathering user requirements
    - The document contains an overview of the user requirements gathering purpose, the process itself, groups/individuals being contacted and considered, and the standard questions to ask each interviewed user group
    - The questions to ask are still being refined for each user group
- Owen Sauser:
  - Started working on the website
    - Got the weekly reports uploaded and displayed
    - Asked team members for pictures to add to the website
  - Monitored 2880 Discord
    - Monitored the channels to see if there are any questions that could be good samples for our project.

## Database Diagram:



## Page Diagram:



- **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:
    - Getting all the website information needed for team members section
    - Getting the previous team's code working.
      - We are talking with a member of the previous team to try to get it working

- **Individual Contributions**

<b><u>NAME</u></b>	<b><u>Individual Contributions</u></b>	<b><u>Hours this Week</u></b>	<b><u>Hours Cumulative</u></b>
James Joseph	Diagrams to help with project understanding	8	23
Samuel Lickteig	Learned about XPath and RegEx Made note of some changes to make to API for next week	5	19
Alix Noble	Learned about XPath	2	11
Andrew Sand	Drafted ETG Email and User Requirements Gathering Document	6	18
Owen Sauser	Worked on team website, monitored 2880 discord channel	5	13

- **Comments and Extended Discussion** (Optional)

- **Plans for the Upcoming Week**

- James Joseph:

- Set-up CyBot virtualization
    - Solve pipeline issues
  - Samuel Lickteig:
    - Work through some more API syntax stuff to get the code in a better place for future development
    - Verify understanding of XPath and RegEx
  - Alix Noble:
    - Continue familiarization with XPath
    - Refamiliarize with RegEx
    - Assist with user requirements gathering if needed
  - Andrew Sand:
    - Contact CPR E 2880 teaching assistant to gain insight for user requirements gathering
    - Investigate further opportunities for user requirements gathering
    - Continue investigating sdmay24-34's code repository
    - Brush up on Regular Expressions
  - Owen Sauser:
    - Continue working on team website
      - Adding team pictures, roles, and bio
      - Add our lightning talks
      - Add our Design docs
    - Continue working with previous team's member to get the code running
- **Summary of Weekly Advisor Meeting** (If applicable/optional)
- Need to get project website started
- Talked about project diagrams
  - James has begun creating diagrams for the structure of the project
- Contact ETG
  - Email both the ETG email and Matt Post
  - Basically just say that we are part of the senior design 23 group and that we were pointed to Matt Post
- Should contact members from the prior team regarding getting the app up and running
- Good that we have some personas defined
  - Should probably split Instructors and TAs into different categories
- User requirements gathering process
  - Need to more properly define the requirements for the users
  - Need a more formal process for gathering requirements

- Interview process with the users?
  - Contact CPR E 288 TAs probably
  - Contact students from CPR E 288? (Check if there are more vocal students on the Discord)
- Also look into static analysis of things that we might not concretely know the answer or antipattern to, but at least point the students to where potential problems might be to get them started down the right track
- Probably need to have a XPath and Regex “dedicated” members