

Team 5: Anti Panda

Date: January 17th, 2023
Time: 4:00 pm EDT
Location: Library Room 112
Duration: 35 minutes

Attendees

Ame Tian
Zane Smalley
Isaac Elenbaas
Maritza Gonzalez

Action Items

- Interview with Leo Ureel
- Schedule future meetings with Leo

Discussions

Key topic: Simplest, fastest way we can implement this.

- **General Questions:**
 - Please tell us about your app idea?

The app aims at matching samples of bad code with regular expressions. A lot of beginner computer science students learning components of programming languages don't know how to use programming patterns correctly (ie. loops, methods) to solve the problems. The app will also help users without much programming experience to better understand the code snippet without knowledge of regular expressions.

The main goal of the project is to design and implement a new user interface for the existing PatternDB. The purpose of the new user interface is to make it more user friendly and easy to understand for users who do not have much knowledge about programming and regular expression.

The current program takes in snippets of bad code and outputs to users what is wrong with the bad code by using regular expressions.

- Can you explain the expected user input?
 - Should the user enter one or multiple examples of bad code into text boxes or upload a file?

Sort of up to us, have a big brainstorming session and commit to something we think we can accomplish in the limited time we have.

- Should our website author the regular expressions or should the user through our helpful user interface?

Related to the above, input is less important. As long as a regular expression is generated that is the goal. So either option is good though the former may not be feasible.

- **Design Consideration Questions:**

- Who are the users? High school students, college students, professors, those in industry?

CS instructors, other department faculty without much programming experience but whose courses are using e.g. Python, Matlab.

- What baseline level of technical experience should we assume users will have?

The users are not required to have a lot of technical knowledge of regular expression. The app's goal is to help user to have a better understanding of technical part of regular expression.

Minimum: enough programming experience to realize that something is wrong and should be checked for, but no more than that.

- What other applications will our app interface with?
 - Do we need to implement a specific regex flavor?

Java regex is the one Leo has been using.

JavaScript regex is an option to use since we will be using a lot of front end development.

PatternDB is a grails app and Leo can share the code base with us for a head start.

- Does our database need to be able to dump data to interface with another existing application?

Leo could give the database and specification for us to use for the front end interface (SQL).

Backend code is Grails already so we could steal that. Could dump existing server and "migrate" to ours, they can pick up where we leave off and migrate again as needed.

- **Technical Questions:**

- Should users be able to provide their own raw regex (to submit for review to be added to the database)?

Depends on how hands-on the creation is, if it is like developing two applications there are existing regex creation tools and that would not be a great use of time.

- Should generated regex be backend-only or (optionally?) displayed to the user?

Optional, could migrate DB or not, see far above.

- Should we interface with the existing database or copy its data to a new one?
 - What database do you have for the existing PatternDB?
- If our app needs to do expensive calculations, should they happen on the client or server side?

Leo does not have a preference for it. App should be implemented in ways that work best, simplest, and fastest.

- **Misc Questions:**

- Is our second meeting on Tuesday the 24th or Wednesday the 25th?
- Would we meet in person or over zoom for the second interview meeting?

Tuesday 24th 4pm, in person in Library Room 112

- Would you like to have regular meetings scheduled for technical questions/issues?

That would work, our usual Sunday 3-4 meetings would work. We could start with going over anything with Leo and then stay after he leaves for team work.

- Any other questions for us at this point?

Possible poster opportunity at a national computer science conference towards the end of the semester.

Next Steps

- Schedule location for next meeting.
- Team will work on App Summary and compile a list of work items for the app