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Sprint 3 Planning Document

CS 307 - Software Engineering - Team 23

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Sprint Overview

Summary

For our third sprint, we will be focusing on ensuring that we have the core functionality of our product for our sprint demo.

Risks and Challenges

For this sprint, we will have to make up the stories we did not complete last sprint. This means we may have to do some extra work, and some of the stories are dependent on other stories being finished first. This means we will have to stay focused, and make sure we are doing the work on time throughout the sprint. Also, we must have our core functionality finished before our final demo, as well as work on our presentation.

Scrum Master: Jeremy Lehman

Meeting Schedule: Tuesdays and Thursdays at 3:00PM, Daily at 3PM via Slack

Sprint Details

User Story #2

As a user, I would like to be able to see the output of my code updated live.

Tasks

| Task # | Task Description | Estimated Time | Owner |
|--------|---|----------------|-------|
| 1 | Make post request to compiler microservice. | 3 hours | Alex |
| 2 | Run compiled JS on client side. | 5 hours | Alex |
| 3 | Create output component to display results. | 4 hours | Alex |
| 4 | Detect when output has been invalidated. | 4 hours | Alex |

Acceptance Criteria:

- Given that microservice has been successfully integrated, when a user compiled run the code, they will be able to see the output if the code runs, or the error messages if the code fails to compile.
- Given that a compiled JS snippet is received from the compiler microservice, when the code does not produce a result within 1s, indicate that the code does not execute and halt the execution thread.

User Story #7

As a user, I would like to delete my post

Tasks

| Task # | Task Description | Estimated Time | Owner |
|--------|---|----------------|----------|
| 1 | Create delete route/implement in db | 1 hour | Patricia |
| 2 | Create a delete button on posts in user history | 3 hours | Zach |

Acceptance Criteria:

- Given a user wants to delete a post, when they click the delete button on the post in their history, then the post will be deleted

User Story #8

As a user, I would like to select a comment or snippet as a solution

Tasks

| Task # | Task Description | Estimated Time | Owner |
|--------|---|----------------|-------|
| 1 | Create solution field in database for comments | 1 hour | Alex |
| 2 | Create button for solution selection | 3 hours | Alex |
| 3 | Create way to differentiate original poster from viewer | 3 hours | Alex |
| 4 | Allow user to change solutions | 3 hours | Alex |

Acceptance Criteria:

- Given a user wants to select a solution, when they select the solution button, it will bring the comment to the top and annotate it with a checkmark
- Given a user wants to select a different solution, when they select the new solution, it will change out the previous solution for the new one

User Story #12

As a user, I would like to be able to view another user's profile

Tasks

| Task # | Task Description | Estimated Time | Owner |
|--------|--|----------------|--------|
| 1 | Differentiate profile component when viewed by the owner vs another person | 3 hours | Jeremy |
| 2 | Hide personal info from other users | 2 hours | Jeremy |

Acceptance Criteria:

- Given a user would like to view their profile, when they look at their own profile, they will be able to see private settings, as well as edit the profile
- Given a user would like to view another profile, when they view another person's profile, they can only see public information like name, public posts

*This story was carried over from the previous sprint

User Story #13

As a user, I would like to create snippets based on other snippets.

Tasks

| Task # | Task Description | Estimated Time | Owner |
|--------|---|----------------|----------|
| 1 | Implement create new post screen (Acceptance Criteria) | 6 hours | Zach |
| 2 | Ensure snippet storage works correctly on backend | 6 hours | Alex |
| 3 | Create Sidebar, with tree of snippets | 12 hours | Patricia |
| 4 | Make database properly filter snippets to create optimal tree structure | 8 hours | Patricia |

Acceptance Criteria:

- Given a user would like to modify a codeversation snippet, when they click on the post button, a post creation form will come up with the old snippet already present
- Given a user would like to view another snippet, when they click on one in the sidebar, they will be taken to that snippet, and its comments

User Story #14

As a user, I would like to have private Codeversation.

Tasks

| Task # | Task Description | Estimated Time | Owner |
|--------|--|----------------|--------|
| 1 | Add private checkbox to create codeversation | 6 hours | Jeremy |
| 2 | Filter private posts on frontpage | 6 hours | Jeremy |

Acceptance Criteria:

- Given a user would like to create a private codeversation, when they select the private codeversation, when someone views the frontpage, they won't see their codeversation.
- Given a user would like to see a private codeversation, when a user shares the url with them, they can view it by pasting the link into their browser.

User Story #15

As a user, I would like to be able to use the website on a production server (i.e. not a local server)

Tasks

| Task # | Task Description | Estimated Time | Owner |
|--------|--|----------------|--------|
| 1 | Register codeversation.com domain name | 3 hours | Jeremy |
| 2 | Set up isomorphic server that serves website | 6 hours | Jeremy |
| 3 | Thoroughly test server to ensure production status | 4 hours | Jeremy |

Acceptance Criteria:

- Given a user would like to access our website using their browser, when they go to codeversation.herokuapp.com, then our current production website will be rendered

Remaining Backlog

Functional Requirements

Profile Features

1. As a user, I would like to have onboarding for the app.
2. As a user, I would like to save other user's posts and comments.
3. As a user, I would like to block other users.
4. As a user, I would like to change the theme.

Codeversation Features

5. As a user, I would like there to be specific moderators. (if time allows)
6. As a user, I would like to see nested comments. (if time allows)

Snippet Block Features

7. As a user, I would like to flag comments and posts for inappropriate content. (if time allows)
8. As a user, I would like to tag my post.
9. As a user, I would like to see other posts related to mine. (if time allows)

Server Features

10. As a user, I would like to get email updates. (if time allows)

External Integration Features

1. As a user, I would like to be able to reference threads on Stack Overflow. (if time allows)

2. As a user, I would like to be able to import code from github. (if time allows)
3. As a user, I would like to create an account through github. (if time allows)
4. As a user, I would like to create an account through google. (if time allows)

Non-Functional Requirements

Response Time

1. Must be run on an Isomorphic server (server side rendering).
2. Page must be loaded in 60 seconds, or the page will time-out.
3. As a user, I would like compilation to have low response times.

Scalability

4. Must be deployed on production server.
5. Must be able to service at least 100 simultaneous users.

Usability

6. Must be able to be used on Android. (if time allows)
7. Must be able to be used on iOS. (if time allows)
8. Must be able to be used in a web browser.
9. Must be mobile compatible.

Security

10. Users can view posts and comments, but can not post or comment themselves until they have logged in.
11. New users should have a semi random Captcha to prevent spamming.
12. Users should have a security question and answer to recover their password.