Sprint Three Iteration Plan

July 8th 2024

1. Process

Start date: Mon July 8, 2024
End date: Fri July 19, 2024

1.1 Roles & responsibilities

To enhance our team's collaboration, we've assigned specific tasks and responsibilities to each member. While peer programming isn't required for this sprint, it's essential for each team member to notify others of any significant updates to their branch. This ensures that everyone can start working on their tasks promptly.

1. Michael Walker: Scrum Master
    - Create final set of user stories
    - Break down user stories to be more granular for each sprint
    - Facilitate team meetings
    - Maintain JIRA board and assign tasks on JIRA
    - Feature(s): Recording calls (includes recording of audio, video, and screen sharing) and displaying the list of recordings on the ‘Recordings’ tab (frontend + connection to database)
2. Aarushi Doshi: Developer + tester
    - Assist in breakdown of user stories to be more granular for each sprint
    - Check/Approve all Pull Requests before merging to sprint3 branch
    - Test application after each merge to ensure code is working
    - Inform teammates of new merges
    - Deploy to main branch
    - Feature(s): Develop a sidebar on the homepage with filter options based on rating and hourly rate (frontend + connection to database)
3. Arina Azmi: Developer + Designer
    - Take meeting minutes and keep team updated on new developments
    - Check/Approve all Pull Requests before merging to sprint3 branch
    - Confirm final UI before merging branches with sprint3
    - Assist in breakdown of user stories to be more granular for each sprint
    - Feature(s): Tutor rating and review after each call/meeting (frontend + connection to database)
4. Miri Huang: Developer
    - Assist in breakdown of user stories to be more granular for each sprint
    - Feature(s): Develop a page for each tutor profile, displaying all info of the tutor (name, courses, personal info, profile picture, languages, ratings and reviews) (frontend)
5. Anusha Karkhanis: Developer
    - Assist in breakdown of user stories to be more granular for each sprint
    - Feature(s): Develop a edit profile page where tutors can edit their information (courses, hourly rate, additional personal info) (frontend + connection to database)

1.2 Events

1. Daily Standups: These meetings will take place online (Discord or Slack) and occasionally in-person, at 9pm EST every weekday and after CSCC01 lecture (Tuesday 7 pm) and tutorial (Thursday 3pm). During each standup meeting, each team member will have the opportunity to discuss what they have completed since the last meeting, what they are planning to complete by the next meeting, and if they are having any issues and require assistance. This will also be the time to make any larger team decisions, such as changing UI, using a different API, etc.
2. Weekly Scrum Meeting: Next Saturday at 5pm, the entire team will meet to discuss the progress of the features that have been developed and the complete weekly progress. During this meeting we will go over the code that has been merged so far and ensure that the application is working from end to end and discuss any larger blockers that any teammates are having
3. Sprint Retrospective Meeting: On Thursday July 18th the entire team will meet at 2pm to discuss what went well for the sprint, what could be improved and how we can work better for the next sprint.
4. Final Sprint 3 Meeting: On Friday July 19th, the entire team will meet online at 10pm to go over the final steps and ensure that all code is working, all documentation is complete and ensure that there are no pending tasks.

2. Product: Goals and Tasks

2.1 Recording Meetings

The recording feature in the application is crucial as it allows both students and tutors to capture the entire session, ensuring that key points and discussions can be reviewed later.

- Record Button Details
    - The record button will be available for both students and tutors during the call.
    - It will be prominently displayed in the call interface for easy access.
- API Utilization
    - The recording functionality will be implemented using the getstream.io API.
    - This API will handle the recording, storage, and retrieval of call sessions.
- Navigation and Access
    - A new "Recording" tab will be added to the navbar, making it easy for users to access their past recordings.
    - This tab will be positioned among the existing options for seamless navigation.
- Recording Page Details
    - The "Recording" tab will lead to a dedicated page displaying a list of all past recordings.
    - Each recording entry will include details such as the recording id, the date, the time and a button to copy the recording url link
    - Users can click on the play button to view the recording on a new tab.

2.2 Filtering of Tutors on Home Page

Our filter feature enhances user convenience by enabling precise refinement of tutor search results based on criteria such as rating and price, ensuring users find the best match for their learning requirements.

- Filter Functionality on Home Page
    - A filters button will be placed to the right of the search bar.
- Filters Button and Sidebar Details
    - When the filters button is clicked, a sidebar should transition smoothly from the right.
    - The sidebar will have two filter options: filter by rating and filter by price.
- Filter by Rating
    - The rating filter will be a continuous Mui component with marks, ranging from 0 to 5 stars.
    - Users can adjust the rating filter to display tutors based on their rating.
    - This will be a double thumbed slider, to allow users to select between a set range of ratings
- Filter by Price
    - The price filter will be a continuous Mui component with marks, ranging from $0 to $40.
    - Users can adjust the price filter to display tutors based on their hourly rate.
- Dynamic Tutor Display
    - As users adjust the filters, the tutor cards displayed on the homepage will dynamically update to meet the selected filter criteria.
    - The filtering should be real-time, providing instant feedback based on the user's adjustments.

2.3 Review and Rating

The review and rating feature is essential for maintaining the quality of tutoring sessions and providing feedback. After each call, students can rate their tutoring session and leave comments, helping tutors improve and aiding other students in selecting the best tutor for their needs.

- Review and Rating Process
    - At the end of each call between a student and a tutor, a popup will appear for the student.
    - This popup will prompt the student to rate their session with their tutor out of five stars.
    - An optional text box will be available for the student to write a detailed review or comments about their session.
- User Interface
    - The rating system will be simple and user-friendly, ensuring students can easily provide feedback.
    - The review box will encourage detailed feedback, but it will remain optional to complete.
- Reviews Tab on Tutor Profiles
    - Each tutor's profile will include a "Reviews" tab.
    - This tab will display all the ratings and reviews left by students, sorted by the most recent, and will include the star rating and any written comments.
- Dynamic Review Display
    - As soon as a review is submitted, it will appear on the tutor's profile under the "Reviews" tab.

2.4 Tutor Profile Page

The tutor profile page is a page where users can view detailed information about a tutor. When users click on any tutor from the homepage, they will be taken to this profile page, which showcases all relevant details about the tutor.

- Tutor Information Display
    - Profile Elements displayed on the tutor profile page:
        - Name and Profile Picture: At the top of the page, the tutor's name and profile picture will be prominently displayed.
        - Courses Taught: A list of courses the tutor teaches will be shown below the tutor's profile picture, providing quick insight into their areas of expertise.
        - Languages Spoken: Information about the languages the tutor speaks will be listed below the profile picture as well.
        - Hourly Rate: The tutor's hourly rate will be displayed clearly beside the tutor's name and to the left of the message button.
        - Message Button: A button to message the tutor will be available. Clicking this button will take users directly to the chat section to initiate a conversation.
- Rating Chart
    - A large chart will display the tutor's overall rating.
    - The chart will show the distribution of ratings, indicating the number of stars (from 1 to 5) and the number of people who gave each rating.
    - This chart should be placed under the tutor's name and to the right of their profile picture
- Tabs for Additional Information
    - About Me Tab: This tab will contain the short detailed bio that the tutor entered upon signing up. This could include information about their background, teaching experiences, and any other relevant information that the tutor had decided to include
    - Reviews Tab: This tab will display all the reviews and ratings given by students. Reviews will be sorted by most recent, with each review showing the star rating and any written comments.
    - Schedule Tab: (To Be Implemented Next Sprint). This tab will display the tutor's availability and schedule. Users will be able to view and book sessions based on the tutor's availability.

2.5 Edit Profile Page

The Edit Profile page allows tutors to update their personal and professional information. This tab is exclusively accessible to tutors and can be navigated to by clicking the "Edit" button on the navbar.

- Profile Information Display
    - Name and Profile Picture: The tutor's name and profile picture will be displayed at the top of the page for reference.

    - Current Information: The page will display the tutor's current information, including the courses they are teaching, their hourly rate, and any additional information they have provided.
- Editing Features
    - Courses Taught: Tutors can update the list of courses they are teaching. If new courses are added, tutors will be required to upload their transcript again for verification purposes. The system will prompt tutors to upload the necessary documents, ensuring they are eligible to teach the new courses.
    - Hourly Rate: Tutors can update their hourly rate to reflect any changes.
    - Additional Information: Tutors can modify other personal and professional details, such as their teaching experiences, and other relevant information.
- Save Button
    - A "Save" button will be positioned at the bottom of the page.
    - Clicking this button will save all the changes made by the tutor and redirect the tutor to their profile page to view the updated changes
- Real-time Update
    - The updated information will be instantly reflected on the tutor’s public profile page.
    - When users click on the tutor's profile, they will see the most recent information.

2.6 AI Generated Transcript

The AI-generated transcript feature enhances the learning experience by providing a text version of the recorded sessions. When a recording is started, the audio file will be saved, and an AI-generated transcript will be created. This allows students to review the session's content quickly and efficiently. Students can quickly read the summary to understand the major concepts discussed during the session. This feature is particularly useful for revision and for those who need to review the session but have limited time. Having both the recording and the transcript available allows for different modes of review, catering to various learning preferences.

- Transcription Generation
    - The audio from the recording will be processed to generate a transcript using an AI transcription service.
    - The summarization of the transcript will be handled by the OpenAI API, providing a concise overview of the session's major concepts.
    - The AI-generated transcript will convert spoken words into text, capturing the entire conversation.
    - A summary will be created to highlight key points and major concepts discussed during the session.
- Viewing Transcriptions
    - The transcriptions will be viewable under the "Recordings" tab, alongside the recording itself.
    - Each recording entry will include the full transcript and the summarized version.

3. Product: Artifacts

3.1 Division of Responsibilities

Tasks are assigned based on the task difficulty, personal preference, importance of the user story, and what the team member had worked on previously. The meeting recording feature was assigned to the team member who had worked on the video calling and setup last sprint, because they were already familiar with how the API worked and how to record calls through this API. The team member who had previously worked on search and filter will continue to work on the filtering.

The rating and reviews feature was assigned to a specific team member because it is a dependency for 2 of the other features, and this member had more availability early in the sprint. This division of responsibilities ensures efficient task management and leverages each team member's strengths and experience.

This sprint, we decided to take on the more major features of the application while also keeping in mind the page and interaction flow. Since users should be able to view each tutor's complete info when clicked on the homepage, we decided to take on the tutor profile feature. To make it more complete and convenient for users, we decided to take on the task of editing tutor profiles. The recordings and AI transcription are very important features of our application and both features are closely related and located on the same page, so we decided to take those on in this sprint to lay a good foundation for the coming sprints.

3.2 JIRA Management

We will keep track of user stories in our JIRA backlog for the sprint and assign points to each user story to estimate how difficult a task is. We will reassess the points after each week to ensure that we have taken on an appropriate amount of work for the sprint. Child stories will be created for each user story, to make the tasks more granular. Once a user story is completed, it will be marked as “Done” on our JIRA board. If time permits, that team member will take on 1 of the user stories that we have kept in our sprint wishlist. Currently, the two user stories that we have put in our wish list are SCRUM-18 and SCRUM-19

JIRA Board

3.3 Team Organization

At the beginning of each sprint, the team will fill out a when-to-meet to indicate the times that they will be available over the following 2 weeks. This way, we can set specific times for our standups and even know when other teammates may be available to help with a blocker.

To ensure that the team is always on the same page, after each standup, Arina will make a short to-do list, listing the tasks that are yet to be completed for the sprint, alongside who needs to complete each task and which ones require collaborative effort. This will help all team members be aware of which tasks are left, and we will be able to plan out our schedule more effectively.

3.4 Sprint Retrospective

Once this Sprint is complete, our team will meet to go over all aspects of the sprint and discuss what went well, what could be improved and what didn't go well for the sprint. This will help us improve for the upcoming sprints.