Project Milestone 2 – Requirements

Requirements Analysis

Use Case 1: New employee is joining the system.

Precondition: Employee has an account with the company and has been onboarded.

Main Flow: User links their appropriate account with CodeCollab [S1]. Next, the user will fill out their skill list [S2]. Finally, the user will fill out their schedule availability [S3].

Sub Flows:

[S1] There are two types of accounts that the user needs to link with CodeCollab. First is whatever messaging system their organization uses (Slack, Microsoft Teams, etc.). Second is whatever calendar system their organization uses (Google Calendar, Outlook, etc.).

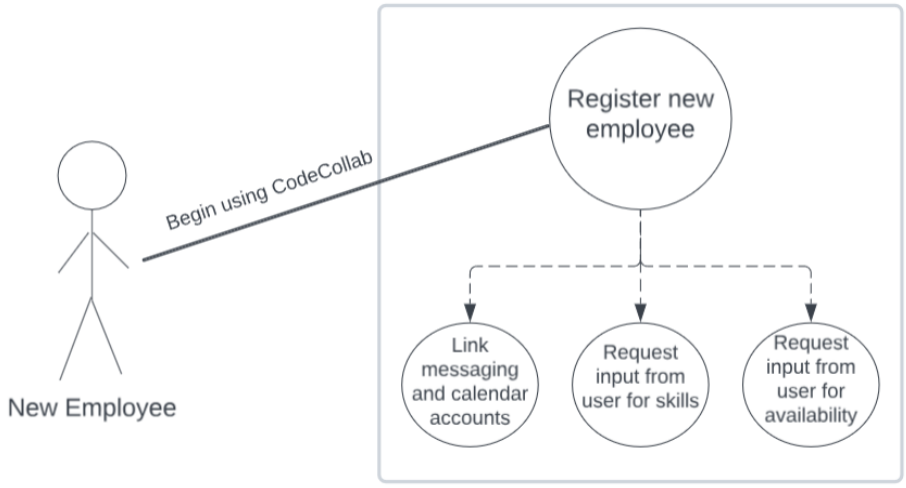
[S2] The user needs to fill out a list of skills they feel comfortable enough with to assist others in. These skills will be short keywords or phrases. This will be added to a database which keeps track of skills that an employee has.

[S3] The user then needs to fill out their general availability for a work week. This is the time when they would be available to help any other user who has been matched to them based on their needs.

Alternative Flows:

[E1] New employee has not been onboarded with their company.

Model:



Use Case 2: User needs help with a SQL query.

Precondition: User has registered with CodeCollab and has entered their skills and availability.

Main Flow: User will request assistance for their issue [S1]. CodeCollab will provide a list of available experts within their organization [S2]. User will select a time to finalize their meeting [S3].

Sub Flows:

[S1] User fills out a request form describing the issue they are facing and skills they require. For this case, the skill would be SQL and for the description they can describe the specific query they need help with.

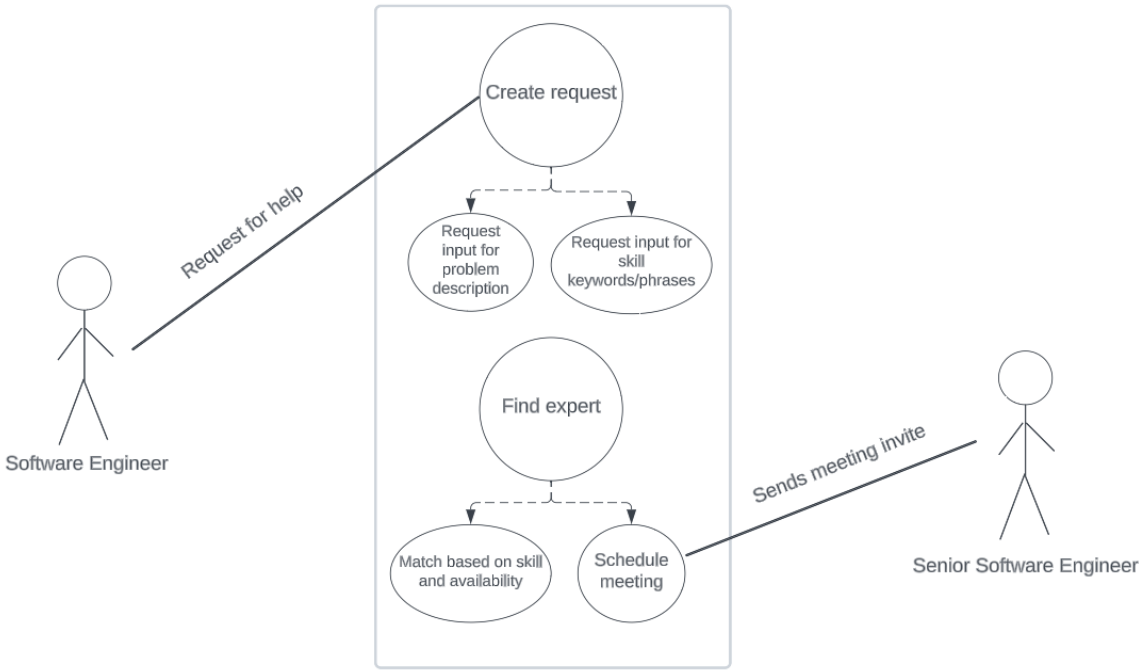
[S2] CodeCollab shows a list of all available experts relating to this issue. It will also show the availability for each of these experts.

[S3] Once the user selects an expert, a meeting will automatically be created for a time that works for both the user and the expert. The invite will be sent on whatever calendar system their organization uses.

Alternative Flows:

[E1] There are no experts available.

Model:



Use Case 3: User wants to schedule a meeting with several experts

Precondition: User and experts have registered with CodeCollab

Main Flow: Unless the user chooses specific experts, the application will select experts that have the availability in the areas that the user requests. [S1] User chooses their desired available time and creates a meeting. Afterward, application notifies all parties. [S2]

Sub Flows:

[S1] All parties have marked available times on the calendar.

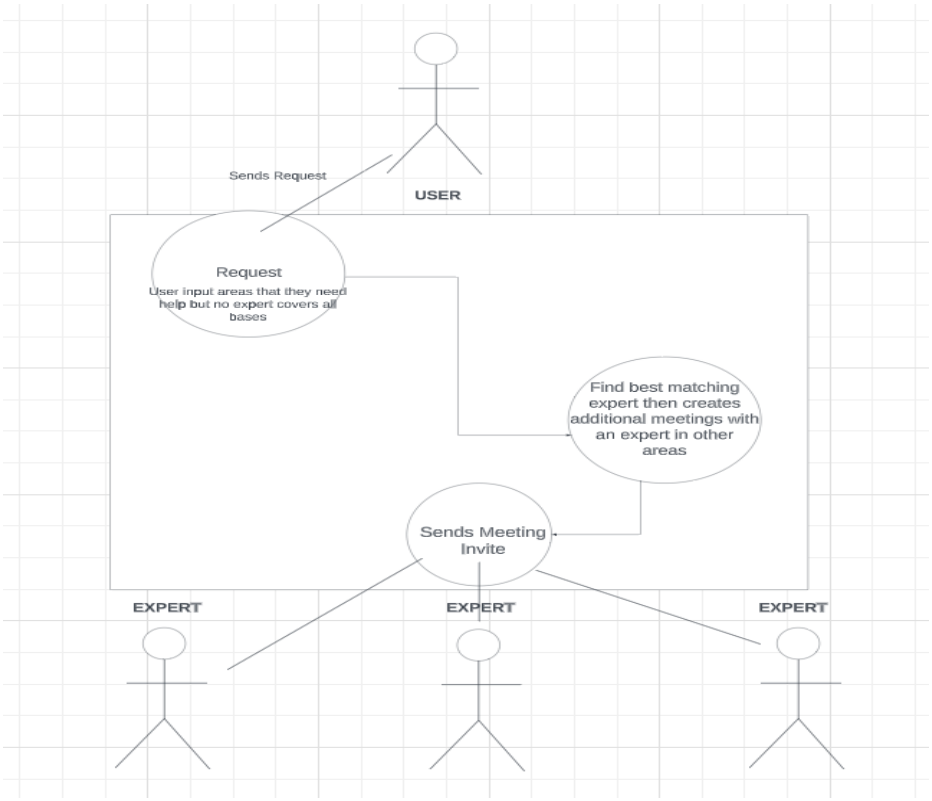
[S2] Once all parties have been chosen, a meeting will automatically be created for a time that works for both the user and the expert. The application will send an email to related parties to notify them.

Alternative Flows:

[E1] Neither party has available time

[E2] No experts in desired area

Model:



Use Case 4: User needs to fill out or change their availability for meeting times

Precondition: The user has an account on CodeCollab that is registered with their company

Main Flow: The user will navigate to the availability page where they can use the built in calendar [S1], Import their schedule from Google Calendar [S2], or mark all times as either available or unavailable [S3].

Sub Flows:

[S1] The user will be presented with an interactive calendar of the current month with the ability to scroll to future months. To mark a time as available or unavailable they will click on a date on the calendar. This will then prompt the user with a section to mark off the time(s) they are unavailable and give the option to add a reason for unavailability.

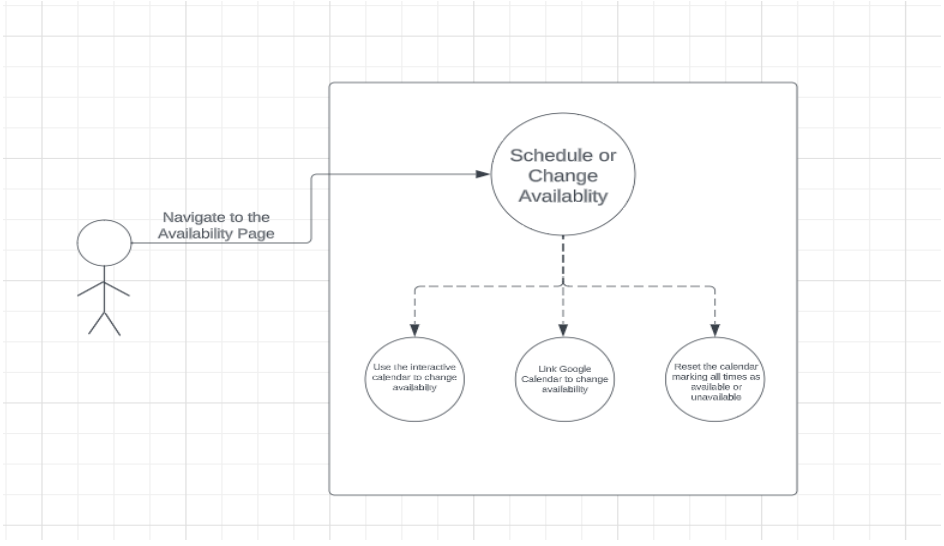
[S2] The user can choose to have the events from their Google calendar imported to mark off unavailable times. They will have to link their Google account and grant access to CodeCollab to access their calendar. After syncing and allowing access the interactive calendar will update with unavailable times correlating to events that are on their Google Calendar.

[S3] The user will select an option to “reset calendar”. From here a prompt will ask them if they want to mark all times as either available or unavailable. The user will pick one and then the calendar will update based on the option they chose.

Alternative Flows:

[E1] Users Google account failed to link

Model:



Use Case 5: User needs to cancel a scheduled meeting

Precondition: User has a meeting scheduled

Main Flow: The user will navigate to the calendar interface on the CodeCollab platform [S1]. Here, they can simply click on the scheduled meeting and cancel it [S2]. The user will then give information on why they had to cancel. [S3].

Sub Flows:

[S1] The user will login to their CodeCollab account. The user will use the navigation bar to view their schedule. This schedule will be linked to whatever scheduling/calender application their company uses

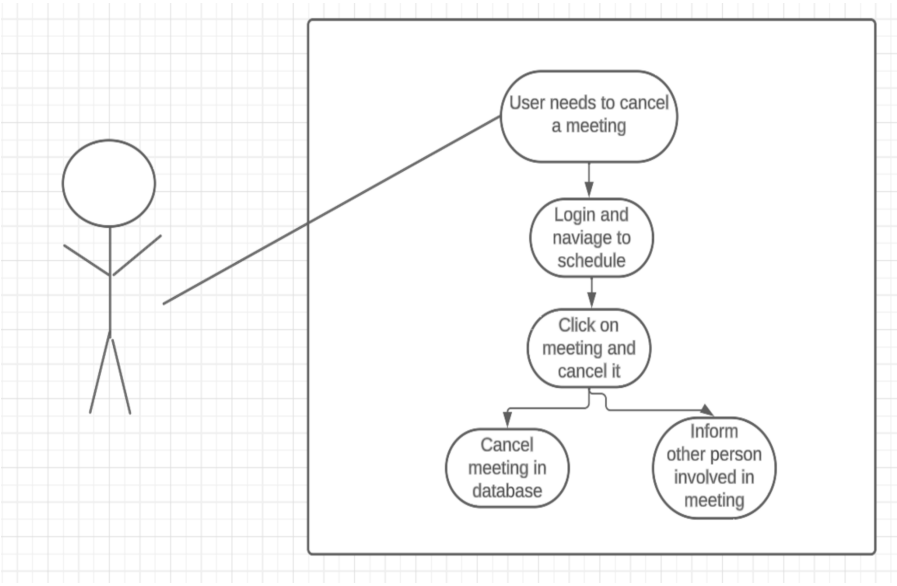
[S2] They will easily be able to click on scheduled events and interact with them. To cancel a meeting, a used simply clicks on the meeting, which will show information about the meeting, and clicks a cancel button. This will result in the CodeCollab database removing the scheduled meeting from their database, which will require an API request to the scheduling platform the company uses.

[S3] After canceling the meeting, the user will be prompted with a pop-up that will ask for information about the cancellation. The other party involved in the meeting will be notified of the cancellation and given information on why it occurred.

Alternative Flows:

[A1] Cancellation does not occur due to API call to scheduling platform being used.

Model:



Process Deliverable

Our team is using the agile SE process model. Specifically, we are using scrum. We will provide notes for each team member from our most recent scrum meeting. These notes were written while working on this assignment so this work is included in the notes.

Rushi Bhut

Work completed so far:
- Completed the “Related Work” section in project milestone 1.
- Created the “Relation to Overall Project Goal” slide for our lightning talk which discussed how CodeCollab meets the project goals.
- Presented the lightning talk.
- Wrote two fully-dressed use cases for CodeCollab.

Work in-progress:
- Currently working on creating models for the use cases I wrote for project milestone 2.
- Writing notes based on my use cases for how we should approach the next deliverable (design).
    - Specifically, I am noting what features could be added to the user interface based on what the use cases require.

Work being blocked:
- Cannot start on the design until all use cases and their corresponding models are completed.

John Nguyen

Work completed so far:
- Completed “Abstract” section of proposal in PM1
- Completed “Use Case” section in Lightning Talk slides in PM1.
- Presented lightning talk.
- Wrote one fully-dressed use case for CodeCollab.

Work in-progress:
- Researching architecture for application

Work being blocked:
- Waiting on design

Max Lane

Work completed so far:

- Completed the “Introduction” section for our proposal in PM1
- Presented the slide that explained the fundamental ideas of CodeCollab for lighting talk
- Wrote one fully-dressed use case for CodeCollab

Work in-progress:

- Brainstorming ideas for UI for all parties that will use CodeCollab
- Helping with deciding the architecture that will be used

Work being blocked:

- I’m not very good at wireframing UI’s

Patrick Walsh

Work completed so far:

- Completed “Software Engineering Process” in PM1
- Presented in Lightning talk
- Completed Use Case for CodeCollab

Work in-progress:

- Working on creating a UI mockup for Use case design

Work being blocked:

- Waiting for full requirements laid out in next deliverable