**CS673 Software Engineering**

**Team 5 : Note Ant**

**Meeting Minutes**

All meeting minutes are kept in this single document. The latest meeting minutes should be at the beginning of the document. For example, meeting 3 minutes is placed before meeting 2 in the document. The team leader should prepare a basic agenda for the meeting and team members should rotate to be the minutes taker. Each group should have at least one meeting per week, and you may have multiple meetings if needed.

**Meeting #**

**Meeting 21**

**Date and Time:** 7 Dec 2023

**Place**: Boston University GSU and Mugar Library

**Participants:** Siyuan, Yibo, Frankie, Nick, Yichen, Chris

**Minutes taker:** Siyuan Wan

**Timekeeper:** Siyuan Wan

**Purpose:**

* To finish iter 3 presentation slides and splitting different parts to everyone.

**Agenda:**

* Everyone finish their slides of presentation

**Discussions:**

* Assign to everyone how to do their slides and details
* Mock two times of presentation.

**Key Decisions:**

* None

**Action Items:**

* Do presentations, that’s all.

**Meeting 20**

**Date and Time:** 4 Dec 2023

**Place**: Boston University GSU and Mugar Library

**Participants:** Siyuan, Yibo, Frankie, Nick, Yichen, Chris

**Minutes taker:** Yichen

**Timekeeper:** Yichen

**Purpose:**

* To strategize the next steps in the project development.
* To allocate tasks for the upcoming PowerPoint presentation.
* To address challenges in implementing tests, especially with Cypress.
* To optimize and refine testing for various pages of the application.

**Agenda:**

* Setting the next meeting's schedule.
* Discussing the division of tasks for the PowerPoint presentation.
* Addressing the challenges with unimplementable tests.
* Exploring solutions for bypassing Google login in Cypress.

**Discussions:**

* Meeting Schedule: Deliberately on the best time for the next meeting.
* Presentation Task Distribution: Discussed how to divide the presentation work among team members.
* Handling Test Challenges: Brainstormed on how to deal with tests that could not be executed as planned.
* Cypress and Google Login: Explored methods to skip Google login during Cypress testing.

**Key Decisions:**

* Homepage Debugging: Agreed to debug and refine the homepage.
* LoginPage Test Optimization: Decided to enhance the tests for the login page.
* Document Page Test Writing: Resolved to start drafting tests for the document page.
* User Details on Page Refresh: Discussed possible solutions for retaining user information after a page refresh.

**Action Items:**

* Prepare for Next Meeting: Team members to get ready for the discussed meeting schedule.
* Work on PowerPoint Presentation: Specific members assigned to create parts of the presentation.
* Tackle Test Implementation Issues: Teams to continue learning and implementing Cypress and Mocha for testing.
* Refine Testing Strategies: Nick to lead in testing out new libraries and developing sample codes for the team.

**Meeting 19**

**Date and Time:** 27 Nov 2023

**Place**: Boston University GSU and Mugar Library

**Participants:** , Siyuan, Yibo, Frankie, Chris

**Minutes taker:** Chris

**Timekeeper:** Chris

**Purpose:**

* Coding and learning session.
* Fix up the remaining bugs that still exist in our code.
* Learning Cypress and Mocha

**Agenda:**

* Discuss the issues and ways to fix bugs
* Front-end and Back-end team split up to study their testing framework

**Discussions:**

* The issue that caused by using middleware, axios, useContent, useEffect. Discuss what could be done to fixing these issues.
* Why data was not successfully transmitted between front and back end.
* How Cypress can be implemented for each page.

**Key Decisions:**

* Most bugs were fixed.
* Program can be executed as expected.
* All functional requirements were met.

**Action Items:**

* Continue learning and implementing Cypress: Yichen(Wayne), Yibo, Siyuan
* Continue learning and implementing Mocha: Chris, Nick, Frankie

**Meeting 18**

**Date and Time:** 16 Nov 2023

**Place**: Boston University GSU and Mugar Library

**Participants:** , Siyuan, Yibo, Frankie, Nick, Yichen, Chris

**Minutes taker:** Yibo

**Timekeeper:** Yibo

**Purpose:**

* Assigning tasks for Iteration 3
* Figuring out problems that is not working
* Preparing test cases

**Agenda:**

* Fixing the bug that causes failing set up of database under certain situation
* Writing test cases without actual code

**Discussions:**

* What are tasks are left for iter 3
* How to come up with test cases

**Key Decisions:**

* Tasks assignment during iter 3
* Debug basically issues

**Action Items:**

* Debug home and document page and database connection
* Writing test cases
* Learning about cypress

**Meeting 17**

**Date and Time:** 13 Nov 2023

**Place**: Boston University GSU and Mugar Library

**Participants:** , Siyuan, Yibo, Frankie, Nick, Yichen, Chris

**Minutes taker:** Yichen

**Timekeeper:** Yichen

**Purpose:**

* Start Iteration 3
* Basically complete known issues

**Agenda:**

* Improve the functionality of the home page
* Figure out how to complete security verification
* Debug the document page

**Discussions:**

* How the "delete" function is displayed
* Where to show the access token
* How to use middleware

**Key Decisions:**

* Start iteration3
* Debug basically issues

**Action Items:**

* Create iteration3
* Create three branches from iteration3
* Debug home and document page
* Improving the storage method of access tokens

**Meeting 16**

**Date and Time:** 9 Nov 2023

**Place**: Boston University GSU and Mugar Library

**Participants:** , Siyuan, Yibo, Frankie, Nick, Yichen, Chris(sick abs)

**Minutes taker:** Yibo

**Timekeeper:** Yibo

**Purpose:**

* Get Iteration 2 ready to submit

**Agenda:**

* Getting all documents ready
* Recording demo video
* Push everything to github

**Discussions:**

* Documents assignment
* What is remaining to be done in Iter3
* Checking user token before calling any functions
* Arranging next meeting

**Key Decisions:**

* Make sure all documents are up to date
* Reassign remaining tasks to Iter3

**Action Items:**

* Wrapping up design documents
* Push Iter2

**Meeting 15**

**Date and Time:** 6 Nov 2023

**Place**: Boston University GSU and Mugar Library

**Participants:** Chris, Siyuan, Yibo, Frankie, Nick, Yichen (remote)

**Minutes taker:** Nick

**Timekeeper:** Nick

**Purpose:**

* Testing connection between frontend and backend
* Preparing Iteration 2 presentation

**Agenda:**

* Testing all methods (get, post, delete, etc) in all pages (login, home, document)
* Testing the flow between pages and look for bugs
* Finish up with coding

**Discussions:**

* Lots of the methods are missing inputs and outputs
* Lots of our data shown for Iteration 1 are static, and we have not changed it to dynamic yet
* Authentication currently does not persist, the user details disappear with a page refresh
* Found that OpenAI library does not work with our current back-end setup

**Key Decisions:**

* Make sure all data is dynamic, and methods will use the tanstack-query library
* Move OpenAI to the front-end in iteration 3
* Implement authentication sessions with local storage to make it persist even with refresh page
* Include several points to the goal for iteration 3: user sessions, implementing and testing OpenAI into front-end, and using a library to manage methods better

**Action Items:**

* Nick will be testing out libraries and figuring out solutions to our problems, and create sample code for others to follow
* Back end team will be in charge of creating the presentation, as the presentation will be about methods
* Frontend team would prepare for refactoring
* Frontend team will learn and implement the library to handle query better

**Meeting 14**

**Date and Time:** 2 Nov 2023

**Place**: Boston University GSU and Mugar Library

**Participants:** Chris, Wayne, Siyuan, Yibo, Frankie, Nick

**Minutes taker:** Chris

**Timekeeper:** Chris

**Purpose:**

* Finish up with coding
* Basic testing

**Agenda:**

* Add more detail for iteration 3 planning
* Working session

**Discussions:**

* Our current state in completing the goals for iteration 2
* The goal for iteration 3 would be to work on testing, refactoring, and security.

**Key Decisions:**

* Focus more on communication.

**Action Items:**

* Next meeting will be on Monday. Nick and Yibo will come early to work on their page. The rest of the team will come at 12.30pm
* Wayne will join us remotely.
* Chris, Frankie, Siyuan and Wayne will work on integrating the login page and home page.

**Meeting 13**

**Date and Time:** 30 October 2023

**Place**: Boston University GSU and Mugar Library

**Participants:** Chris, Wayne, Siyuan, Yibo, Frankie

**Minutes taker:** Siyuan Wan

**Timekeeper:** Siyuan Wan

**Purpose:**

* Keep Working on the frontend and backend function of iteration II
* Nearly finish the frame of iter2

**Agenda:**

* Working on the Iter2 files
* Finish homepage function deleteNote().
* Finish homepage UI
* Finish Login page and backend connection, debug.

**Discussions:**

* For document page, through Discord meeting to finish some function.
* Talking about the frame of React
* Communication of document page and backend database.

**Key Decisions:**

* Document card UI, like button, delete button, and delete modal.

**Action Items:**

* Finish all function on Thursday.

**Meeting 12**

**Date and Time:** 26 October 2023

**Place**: Boston University GSU and Mugar Library

**Participants:** Chris, Nicholas, Wayne, Siyuan, Yibo, Frankie

**Minutes taker:** Wayne

**Timekeeper:** Wayne

**Purpose:**

* Keep Working on the documents of iteration II
* Basically finish the frame of iter2

**Agenda:**

* Working on the Iter2 files
* Pull the front-end code
* Rebase to new iter2

**Discussions:**

* The plan and timeline of Iteration II.

**Key Decisions:**

* Subdivide the tasks of the backend.

**Action Items:**

* Rebase iter2
* Test documents of iteration II

**Meeting 11**

**Date and Time:** 23 October 2023

**Place**: Boston University GSU and Mugar Library

**Participants:** Chris, Nicholas, Wayne, Siyuan, Yibo, Frankie

**Minutes taker:** Yibo

**Timekeeper:** Yibo

**Purpose:**

* Wrap up iteration 1
* Start iteration 2

**Agenda:**

* Assigning tasks by roles
* Discuss approaching to tasks with leaders
* Start coding on iter2

**Discussions:**

* Initiating tasks on iteration 2
* How to finish those tasks

**Key Decisions:**

* Giving tasks for everyone

**Action Items:**

* Merge iter1 branch to the main branch
* Create Iteration 2 branch
* Starting working on iter2

**Meeting 10**

**Date and Time:** 19 October 2023

**Place**: Boston University GSU and Mugar Library

**Participants:** Chris, Nicholas, Wayne, Siyuan, Yibo, Frankie

**Minutes taker:** Frankie

**Timekeeper:** Frankie

**Purpose:**

* Working on the documents of iteration I
* Making demo video of the project
* Add SDD document in the drive and update it
* Finish UserStories documents
* The plan of Iteration II

**Agenda:**

* Working on the Iter1 files
* Everyone finish their part of personal Progress report
* Making the demo video and push to github

**Discussions:**

* The plan and timeline of Iteration II

**Key Decisions:**

* The details of iteration I files

**Action Items:**

* Update all the documents on the drive and push to Github
* Create Iteration II branch

**Meeting 9**

**Date and Time:** 16 October 2023

**Place**: Boston University GSU and Mugar Library

**Participants:** Chris, Nicholas, Wayne(online), Siyuan, Yibo, Frankie

**Minutes taker:** Chris

**Timekeeper:** Chris

**Purpose:**

* Finish front-end works for iter1
* Check completeness and styling for UI
* Then, merge branches back to iter1

**Agenda:**

* Working session with Q&A

**Discussions:**

* Brief discussion on how our presentation will be carried out.

**Key Decisions:**

* What goes on to our presentation

**Action Items:**

* Finish last bit of work for front end UI

**Meeting 8**

**Date and Time:** 12 October 2023

**Place**: Boston University GSU and Mugar Library

**Participants:** Chris, Nicholas, Wayne, Siyuan, Yibo, Frankie

**Minutes taker:**

**Timekeeper:**

**Purpose:**

* Discuss back end flow
* Check progress of front end

**Agenda:**

* Data Handling
  + Back end routes and controllers for each front end page
  + How data will be handled from the front end
* Test input from frontend and output by OpenAI
* Check frontend UI again

**Discussions:**

* Update Document schema to include summary content
* Add save button to document page, so users can save document

**Key Decisions:**

**Action Items:**

**Meeting 7**

**Date and Time:** 10 Oct 2023

**Place**: Boston University GSU and Mugar Library

**Participants:** Chris, Nicholas, Wayne, Siyuan, Yibo

**Minutes taker:** Chris

**Timekeeper:** Chris

**Purpose:**

* Here to continue coding and ask questions.

**Agenda:**

* Continue fishing up the UI
* Understanding the folder structure
* Learning React
* Testing out LangChain, understanding the flow and structure
* Finished Google Sign-in

**Discussions:**

* Folder structure
* Explaining React components
* Explain Google Sign in

**Key Decisions:**

* Next meeting on Thursday after class.

**Action Items:**

* Continue learning React

**Meeting 6**

**Date and Time:** 05 Oct 2023, 15:30

**Place**: Boston University GSU and Mugar Library

**Participants:** Frankie, Chris, Nicholas, Wayne, Siyuan, Yibo

**Minutes taker:** Yibo Wang

**Timekeeper:** Yibo Wang

**Purpose:**

* Make sure everybody on the same page
* Assigning coding tasks this week to everyone.
* Begin Coding.
* Solve part of problems and bugs encountered during coding.

**Agenda:**

* Discuss about data schema
* Decide login method

**Discussions:**

* Data schema
  + Docs
  + Users
* Login methods
  + Google sign in
* Frontend
  + Code
  + Document UI
  + Create document UI flow
* Backend
  + Structure rundown
  + Langchain overview
  + Google sign in docs

**Key Decisions:**

* Using google sign in as login method
* Document UI

**Action Items:**

* Each member continues to work on their code and problems can be discussed online.
  + Document UI
  + Document organization
  + Create document
  + Research on sending keyid to back end
  + Langchain
  + Google sign in
* Next meeting will be Tue 10 Oct @ 2pm

**Meeting 5**

**Date and Time:** 02 Oct 2023, 15:00

**Place**: Boston University GSU and Mugar Library

**Participants:** Frankie, Chris, Nicholas, Wayne, Siyuan, Yibo

**Minutes taker:** Siyuan Wan

**Timekeeper:** Siyuan Wan

**Purpose:**

* Assigning coding tasks this week to everyone.
* Begin Coding.
* Solve part of problems and bugs encountered during coding.

**Agenda:**

* Assign pages(login, homepage, document) to everyone on the frontend team and build the react framework.
* Explain in details to the frontend team what each page should contain.
* How to use react framework.
* Set up dataflow and server (use express) on the backend team.
* Set up basic code folder.

**Discussions:**

* Details of what each page(login, homepage, document) should contain and layout.
* How to use git rebase.
* How to apply the Mantine UI content to project.
* Knowledge about Server side.

**Key Decisions:**

* Begin coding (front and back end, set up server and dataflow.)

**Action Items:**

* Each member continues to work on their code and problem can be discuss online.
* Next meeting will be Thur 5 Oct, after class.

**Meeting 4**

**Date and Time:** 28 September 2023, 15:30

**Place**: Boston University Library

**Participants:** Frankie, Chris, Nicholas, Wayne, Siyuan, Yibo

**Minutes taker:** Frankie

**Timekeeper:** Frankie

**Purpose:**

* To refine the files from Iteration 0 that were not completed.
* Discuss modifications to the project to meet requirements.

**Agenda:**

* Review modifications and updates to the PPT by each member.
* Discuss the four new files: SPPP, SPPP Risk Management, Progress Report, and Readme.
* Determine the content and responsible individuals for each file.
* Discuss the project name and future meeting arrangements.

**Discussions:**

* All members completed the modifications to the PPT on time and made adjustments based on the team leader's suggestions.
* Team members shared their thoughts and suggestions on the four new files.
* For the SPPP and SPPP Risk Management, the team decided to collaborate, with each member responsible for a portion of the content.
* The Progress Report will be overseen by the team leader, while the content of the Readme will be a collective effort by all members.
* The team unanimously decided on the project name "Note Ant".

**Key Decisions:**

* The online meeting on Monday will be changed to an in-person meeting to facilitate better collaboration and discussion of project details.
* The project name was finalized as "Note Ant".

**Action Items:**

* Begin drafting the SPPP, SPPP Risk Management, Progress Report, and Readme.
* Each member is expected to complete their portion before the next meeting.
* Prepare for the in-person meeting on Monday, ensuring all members can attend.

**Meeting 3**

**Date and Time:** 25 September 2023, 15:00

**Place**: Zoom

**Participants:** Frankie, Chris, Nicholas, Wayne, Siyuan, Yibo

**Minutes taker:** Frankie

**Timekeeper:** Frankie

**Purpose:**

* Go through every slides and edit if needed
* finish the slides for iteration 0 presentation.

**Agenda:**

* Everyone introduces their part of the slides and others give out advice.
* Discuss the details for iteration 1, 2, 3 and the specific tasks under each iteration.
* Continue Working on the iteration 0 slides.

**Discussions:**

* “Plan/Roadmap” Slide needed to split into iteration 1, 2, 3
  + For Iteration 1, the front-end team will finish making the UI and use dummy data to test. The back-end team will do research on chatGPT API langchain. And setting up express and mongoDB.
  + For Iteration 2, the front end team will try to use the data from the backend. And the back end team should finish the CURD, MongoDB and user sessions.
  + For Iteration3, Both teams should check their works or try to add new features.
* “Prototype” Slide: font size should be bigger.
* ”Library“ Slide needed to be split into “front-end” and “back-end”, two parts.
  + Front end library: mantine, TanStack Query, react router.
  + Back end library:
    - Definite inclusion: langchian, mongoose, express…
    - Maybe used:Axios…
* “Role” Slides moved to second place. And adding one slide to introduce the front-end team and back-end team.
* We updated the team of front-end and back-end:
  + Front-end: Yibo, Siyuan, Wayne
  + Back-end: Chris, Nicholas, Frankie

**Key Decisions:**

* Slide details.

**Action Items:**

* Continue working on the slides.
* Find online resources and learn about the tack stack everyone should be using.

**Meeting 2**

**Date and Time:** 21 September 2023, 15:30 - 16:30

**Place**: Library

**Participants:** Frankie, Chris, Nicholas, Wayne, Siyuan, Yibo

**Minutes taker:** Chris

**Timekeeper:** Chris

**Purpose:**

* Knock down front-end and back-end design details.
* Split the team.
* Worked on the slides for iteration 0 presentation.

**Agenda:**

* Split the team into front-end and back-end groups.
* Discuss how our pages will look like, the UI, the components in our pages.
* Discuss goals for each iteration and a tentative plan for development.
* Worked on the iteration 0 slides.

**Discussions:**

* We will have 3 pages. A home page, a user login page,and a document page.
  + The home page will display users documents in a 3 by 3 grid.
  + The user login page will display a box in the center that has an input slot that allows users to enter their OpenAI username and password. We will send these credentials to OpenAi for authentication. At the same time, we give the options to users to log in via Google, Facebook, etc.
  + The document page will display users’ documents on the left, and an AI box on the right. The user has the option to summarize their document via ChatGPT by clicking on the summarize button. (also thinking about quiz function)
* We have splitted the team into front-end and back-end
  + Front-end: Yibo, Siyuan, Wayne
  + Back-end: Chris, Nicholas, Frankie
* We have split work for the slides. Each person has one slide to work on.

**Key Decisions:**

* Team split
* Slides.

**Action Items:**

* Continue working on the slides
* Find online resources and learn about the tack stack everyone should be using.

**Meeting 1**

**Date and Time:** 18 September 2023, 15:30

**Place**: Online, zoom

**Participants:** Frankie, Chris, Nicholas

**Minutes taker:** Nicholas

**Timekeeper:** Nicholas

**Purpose:** Lab 1 assignment & Group Project Details

**Agenda:**

* Everyone trying out Merging Pull requests and reviewing
* Know how to assign reviewers and assign self to PRs
* Finalize group project details
* Assign roles

**Discussions:**

* Discussed flow of PRs from reviewers to assignees
* Project Details
  + Summary: Note taking app with assistant
  + 1st iteration: UI of note-taking with assistant side-by-side
  + Use Mantine UI for UI library and styling

**Key Decisions:**

* Note taking app with assistant as project idea
* Chris would be design lead, going to check out Mantine UI
* ExpressJS, NodeJS, and LangChain will be used for back-end
* MongoDB - users can have multiple documents
* Log in/out system - each user has their own documents

**Action Items:**

* Wayne to do Lab1
* Take screenshots of Lab1
* Submit Lab1 individually with screenshots.