

CS673 Software Engineering
Team 5 : BU Academic Navigator (BUAN)
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 8

Date and Time: Friday, Oct 11, 2024 9:30 PM EST

Place: Virtual Remote Discord

Participants: Ananya Singh, Battal Cevik, Natasya Liew, Natthaphon Foithong, Yu Jun Liu

Minutes taker: Natthaphon Foithong & Natasya Liew

Timekeeper: Natthaphon Foithong & Natasya Liew

Purpose:

- Update on what had been done the past week
- Communicating on what to do for the final weekend sprint

Agenda:

1. Updates of progress
 - a. Frontend
 - b. Python AI service
 - c. SB Backend service
 - d. Postgres DB service
 - e. CI/CD
 - f. QA/Testing
 - g. Documentation
2. What to do for the weekend/Work Division

Discussions:

1. Updates of progress
 - a. Frontend
 - i. Poom is travelling, so Tash to implement Redux, success/error messages, encapsulation of inputs, and requirement checks for the login/signup page.
 1. After meeting notes: we didn't end up implementing Redux and encapsulation of inputs because it didn't integrate well with the SB Backend. If we had an extra week, we might be

able to do so. Then Tash starting having problem with the Git where it kept rebase and automerging documents to the code and introducing bugs. So she had to give Poom her codes, and for him to help out in cleaning the errors introduced along with adding the code additions for the requirement checks and success/error messages.

- ii. Tash to clean and delete files to make the frontend folder cleaner.
 - iii. Tash to do linting and reformatting of the files
 - iv. Natt created the download button feature in the end of iteration 2, so we implemented it in iteration 3.
 - 1. After meeting notes: But found a bug with the formatting that we fixed. But by that stage, we finished deployment and did not want to risk adding more bugs into the program as Ananya veto the PR, so we marked the function as defect in JIRA.
- b. Python AI service
- i. Poom went through the code on more time and fixed the existing bugs and cleaned the code.
- c. SB Backend service
- i. To look into adding Captcha functionality
 - 1. After meeting notes: we decided not to implement captcha into the project.
 - ii. Integrating the application to the AWS EC2 Instance
 - 1. After meeting notes: due to the limited time and urgency to deploy.
 - iii. Found that the empty string issue from the course builder was coming from the SB side, so Ananya added a few lines of code to ensure that the empty array sent to the Python AI service from the SB service matches to the the course builder requirement.
 - iv. Had a bug where when you create a new user, the chatbot will put 'Hello [undefined]', Ananya managed to fixed it from the SB side.
 - v. Ananya cleaned more code smells from the SB service, added more unittests.
- d. Postgres DB service
- i. Tash cleaned the database and fixed the password bug, changing the data type from Varchar(50) to Varchar MAX, in case the length will be increased in the future when we hash it with a different encryption algorithm
 - ii. Battal and Tash edited the Readme.md file
 - iii. To add the db to the AWS deployment

1. Ananya to work with Battal as Battal was the one who set up
- e. CI/CD
- i. Apply the AWS EC2 Instance
 1. Battal and Ananya to set up
 - ii. Apply linting/formatting to the code, and fixing accordingly
 1. Battal fixed most of the existing linting/formatting problems that we had over the week
 - iii. We decided to add Bug tickets into our JIRA practice, and tried our best to fix as many bugs before the end of iteration 3.
 - iv. Applied a code freeze by Sunday, October 13 to ensure that everything can be submitted in time.
 - v. If by Monday, October 14, there are still awaiting PR, to close all PR. All review and push to be done before the mentioned deadline.
- f. QA/Testing
- i. Adding the unittests, functional, and regression testing
 1. AJ on the SB unittesting, and Ananya to review the code to ensure dependencies and main codebase is not effected or overwritten
 2. Natt on frontend unittesting, Battal to review in order to make sure no bugs are introduced.
 3. Battal to supervise and lead this process
 - ii. Battal to ensure that the Bug tickets were created in JIRA and team to fix as much issues as we could.
- g. Documentation
- i. For Poom to add more requirements additions to the JIRA and SPPP
 - ii. Team to review their sections in the documents and ensure that everything is up to date
 - iii. Tash to do the final review on the documentations before adding to the Github, releasing version for iteration 3 and submitting to Blackboard.
 - iv. Battal, AJ, Natt to add more of the testing updates to the STD documentation.
 - v. Ananya to add more security details to the SPPP and SDD in regards to the updates on iteration 3.
 - vi. Tash and AJ to go through the Presentation Slides one more time before doing the Presentation Video
 - vii. Ananya and Battal to do the demo video for iteration 3, Ananya focusing on the codebase and Battal focusing on the testing and QA, with Natt helping the two in editing the video.

- viii. Tash edited the SPPP Risk mgmt document as mentioned in the Iteration 2 review.
- ix. Applied a document addition freeze at Monday, October 14 at 9pm to make sure that Tash can proofread everything.
- x. Have all deliverables ready and added to Github, for iteration release and submission by midnight.
- xi. Ananya to do the final update for the readme.md to make sure everything is good to go.

Key Decisions:

- Tash to add Redux, Success/Error messages, Requirement Checks, and lint/format the frontend codes, and try to limit the visibility of client/user
- Battal and Ananya to do Final Demo video, with Natt to help in editing the video together
- Tash and AJ to do the Final Presentation video and edit the final iteration slides
- Ananya additions for the security layer - Captcha
- Ananya and Battal to do final integration and deploy to AWS EC2 Instance
- Battal, AJ, and Natt to finish up on the testing; under lead of Battal (if Integration team finishes early, to help with testing)
- Poom to do final revisions for requirements, Chatbot-relevant topics, frontend on all docs
- Poom to fix the bugs for the Python AI Service
- Tash to do final revisions for the management, db, course builder algo on all docs
- Natt to do final revisions for frontend, design on all docs
- Ananya to do final revisions for all SB backend, security on all docs
- Battal to do final revisions for all qa and testing on all docs
- AJ to do final revisions for all CI/CD on all docs
- Battal to do final approval & merge for develop to stage, stage to main
- Tash to do the final version release and submission for team
- Natt to help team if needed to edit the videos

Action Items:

- Tash to add Redux, success/error messages, encapsulate the parameters, add the frontend security layer
- Battal and Ananya to do Final Demo video
- Tash and AJ to do the Final Presentation video and edit the presentation slides
- Ananya additions for the security layer from the SB service side
- Ananya and Battal to do final integration and deploy to AWS EC2 Instance with the help of Battal
- Battal, AJ, and Natt to finish up on the testing; under lead of Battal (if Integration team finishes early, to help with testing)
- Poom to do final revisions for requirements, Chatbot-relevant topics, frontend, and requirements on all docs

- Poom to fix bugs in Python AI Services
- Tash to do final revisions for the management, db, course builder algo on all docs
- Natt to do final revisions for frontend, design on all docs
- Ananya to do final revisions for all SB backend, security on all docs
- Battal to do final revisions for all qa and testing on all docs
- AJ to do final revisions for all CI/CD on all docs
- Battal to do final approval & merge for develop to stage, stage to main
- Tash to do the final version release and submission for team
- Natt to help team if needed to edit the videos

Meeting 7

Date and Time: Sunday, October 06, 2024 9:30 PM EST

Place: Virtual Remote Discord

Participants: Ananya Singh, Battal Cevik, Natasya Liew, Natthaphon Foithong, Poom Chantarapornrat, Yu Jun Liu

Minutes taker: Ananya Singh

Timekeeper: Ananya Singh

Purpose:

- Updates on what we have done for the week
- End-2-end integration and testing (Demo)
- Deliverables ended for the final 48 hours before Iteration 2 Submission

Agenda:

- Update on week progress:
 - Python AI service
 - SB Backend
 - AJ's Unit Testing, Linting/Formatting
 - Front-End
 - CI/CD
 - QA/Testing
- Targets for the Upcoming Week:
 - Integration
 - Frontend Delivery
 - Testing Delivery
 - Finish Configuring/Standarding Code
 - Documentation
 - What still needs to be done

Discussions:

- Python AI service
 - Poom and Nat are pretty much finished, chatbot works as intended
- SB Backend
 - The Spring Boot project is pretty much finished
 - Unit Test required (AJ is handling)
 - Captcha integration next iteration
 - Finishing up integration with front end and applying JWT Auth
 - To integrate AWS EC2 next iteration
 - Password hashing feature successfully implemented and to add into the demo as reference
- Frontend
 - UI done, Server integration almost done
 - Need to do integration for the Login in using the JWT Auth
 - Adding the Download chat feature in iteration 3, too late to introduce new feature
 - Double check problem on the Cors that cause double API call
- QA/Testing
 - (Battal) went over the test cases in JIRA which we were created
 - (Battal) Plan for User Acceptance test
 - (Battal) Showed Cucumber Tests
 - Natt and AJ will help Battal with Regression Testing

Key Decisions:

- Next iteration is going to be critical for testing and will be a “test heavy” week
- Next iteration demo must happen on environment (AWS) so Battal and Ananya will together on that integration
- AWS will be used for next iteration demo.
 - This iteration will be locally
- Poom is going to leverage Redux for State Management in the UI
- Natt will add the download functionality and we are going to have it as part of our final MVP.
- Epics based on SPPP requirement will be handled with Battal as the lead supervisor.
- Next meeting will be Friday and Sunday
- Team to be split into two: QA/Testing (Battal, Natt, and AJ) and Integration (Ananya, Poom, and Tash)
- Leave the course builder code as is, focus on cleaning up frontend, testing and integration.

Action Items:

- Ananya and Battal will work together on running the DB script in EC2 PostgreSQL instance.
- AJ will update the README.md file that explains how to run locally
- AJ will add unit testing across all services.

- Ananya will handle AWS E2E integration to make sure everything works fine in a deployed environment versus locally.
- Tash and Poom will clean up UI code and make it more readable
- Poom to implement Redux, to make the app more secure
- Natt to finish up with the download button, then focus on testing
- Battal and Ananya for iteration 3 demo, and Tash and AJ for the iteration 3 presentation

Meeting 6

Date and Time: Sunday, 29th September 2024 9:30PM EST

Place: Virtual Remote Discord

Participants: Ananya Singh, Battal Cevik, Natasya Liew, Natthaphon Foithong, Poom Chantarapornrat, Yu Jun Liu

Minutes taker: Natasya Liew

Timekeeper: Natasya Liew

Purpose:

- Update on week progress
- Targets for the Upcoming Week

Agenda:

- Update on week progress:
 - Python AI service
 - SB Backend
 - AJ's Unit Testing, Linting/Formatting
 - Front-End
 - CI/CD
 - QA/Testing
- Targets for the Upcoming Week:
 - Integration
 - Frontend Delivery
 - Testing Delivery
 - Finish Configuring/Standarding Code
 - Documentation
 - What still needs to be done

Discussions:

1. Updates

a. Python AI Service

- i. Integrated the Prompt Library JSON file, adding more than 600 prompt entries for the model to utilize in Retrieval-Augmented Generation (RAG).
- ii. Enabled function calls at any time during the chat process for the user.
- iii. Completed all required functionalities from the Python AI service section.
- iv. Need to apply the flexibility/design pattern as requested by Prof. YuTing if time permits; focus on the front end first, then Tash will fix it in iteration 3 (Deadline: Oct 15).

b. SB Backend

- i. Integrated the Python AI service with Spring Boot (SB).
- ii. Completed the Authentication design flow.
- iii. This week's plan is to finalize the Authentication and Login Page features/functions (Deadline: Oct 6).
- iv. Iteration 3 will focus on security enhancements (Deadline: Oct 15).

c. Database

- i. Need to update existing entries to fit the application functions' formatting (Deadline: Oct 15).
- ii. Testing integration with Spring Boot and the Python AI service is pending.
- iii. Waiting for AWS deployment to proceed.

d. Authentication Setup

- i. Design is completed; planning to finish by the end of the week.

e. CI/CD

- i. Linting/Formatting packages did not work; this will be done manually (Deadline pushed back to Oct 15, with focus on frontend first).
- ii. Making the GitHub Action CI requirements slightly more lenient (Deadline: ASAP).
- iii. Need to decide how to share the `.env` file with the facilitator or at least the required API keys.

f. QA/Testing

- i. EC2 key was lost; efforts are underway to find/recreate the instance and get it fixed ASAP for AWS deployment (Deadline: Oct 15).
- ii. Created a test code folder to aid in Testing efforts.
- iii. Goal: Add testing code for every feature in the program (Deadline: Oct 15).

g. Front-End

- i. Components have been created, but integration is not yet complete.
- ii. Natt needs assistance with the integration tasks.
 1. Tash will support Forms integration and the download chat feature (Deadlines: Oct 1 for forms and Oct 6 for download feature).

2. Ananya will take over the login and authentication page as previously agreed (Deadline: Oct 6).

3. Poom and AJ will manage the Chatbot integration, static Chat History page, and feature development for profile picture options in the modal (Deadline: Oct 6).

h. Accessories (Linting, Formatting, and Commenting)

i. Focus will be pushed back; priority is on frontend and testing first (Deadline: Oct 6).

i. Management (JIRA, Progress, and More)

i. Update JIRA with the latest progress (Deadline: Oct 2).

j. Documentation

i. Update the Software Design Document (SDD) (Deadline: Oct 2).

ii. Add more details to the Software Test Document (STD) as necessary (Deadline: Oct 2).

iii. Await comments on the iteration and update documents accordingly (Deadline: Oct 6).

iv. Prepare PowerPoint slides pending completion of the rest of the documentation (Deadline: Oct 6).

v. Compile demo materials (Deadline: Oct 6).

Key Decisions:

1. Push back deadlines for other parts and focus on completing the front end.
2. Teams (SB, CI/CD, Python AI) to assist with the front end and aim for a finished product by Friday, integrating with the backend by the end of the weekend (or during the next meeting).
3. Next meeting scheduled for Sunday, Oct 6, 9:30 PM EST, after class.

Action Items:

1. AJ to update the architecture and database diagrams to include the Authentication in the SDD.
2. Tash to update the images for the Mockup designs in the SDD.
3. Remain alert for Iteration 1 comments to potentially update the SPPP, STD, SPPP Risk Management, and Presentation Slides.
4. Tash to update presentation slides and create a video.
5. Battal to pass the Testing video to Poom.
6. Poom to create the demo video and compile the code.

7. Ananya to update the [Readme.md](#).
8. AJ to fix inputs for existing users in the database and ensure they match the server/program.
9. AJ to add Unit Test examples for key features into the STD documentation.
10. Tash to annotate Python AI service, SB, and React files as part of accessories for Iteration 3.
11. Tash to include a test folder for different unit tests (TDD implementation).
12. Battal to deploy on AWS.
13. Battal to review the Python AI service code for readability and potential optimization.
14. Tash to support Forms integration and the download chat feature (Deadlines: Oct 1 for forms and Oct 6 for download feature).
15. Ananya to take charge of the login and authentication page (Deadline: Oct 6).
16. Poom and AJ to oversee the Chatbot integration, static Chat History page, and profile picture modal feature (Deadline: Oct 6).
17. Battal and AJ to populate the testing implementation.
18. Tash to adjust the course builder to be less static after the frontend is completed.

Meeting 5 Week 5

Date and Time: Tuesday, Sep 24, 2024 9:30 PM EST

Place: Virtual Remote Discord

Participants: Ananya Singh, Battal Cevik, Natasya Liew, Natthaphon Foithong, Poom Chantarapornrat, Yu Jun Liu

Minutes taker: Yu Jun Liu (AJ)

Timekeeper: Yu Jun Liu (AJ)

Purpose:

- Planning for Iteration 2 and 3

Agenda:

1. Reiterate tasks in each micro team
 - Python AI Service
 - Spring Boot
 - PostgreSQL
 - Integration (backend)
 - Frontend

- Integration (backend to frontend)
- QA/Testing
- Docker/AWS deployment
- 2. Setting deadlines
- 3. Documentation needs (what do we need to add?)
- 4. Other comments
- 5. Linting/Formatting

Discussions:

1. Reiterate Tasks in Each Micro Team

- **Python AI Service (Poom/Tash)**
 - Integrate API with Spring Boot (SB) backend. A shuttle team call between Python and SB teams is scheduled for Wednesday, September 25, at 8:30 PM.
 - Create the Prompt Library JSON file.
 - Provide course waiver information.
 - Implement specialized queries based on F-1/J-1 international student requirements.
 - Update the Course Builder in real-time.
 - Enable the Course Builder to be called repeatedly based on conversation listener by the Langchain Agent.
 - Utilize a conversation scraper by the Langchain Agent to identify keywords for function calls or store keywords as input parameters.
 - Integrate the Prompt Library file into the Chatbot implementation.
 - Develop unit tests.
- **Spring Boot (Ananya)**
 - Manage request and response handling from the frontend UI.
 - Develop the User API (GET/POST) for New User and Get User functions.
 - Implement Okta integration for user authentication.
 - Facilitate calls to the Chatbot implementation.
 - Create unit tests.
 - Establish a security layer.
- **PostgreSQL**
 - No additional tasks for Iteration 2; script is complete and will be deployed in Iteration 3.
- **Frontend (Natt)**
 - Log in site responsibilities have been transferred to Ananya.

- Log in button (Okta) and form submit button for creating new users (to collect input parameters for Course Builder implementation).
- Develop functionality for the Chat UI.
- Implement the "Save Chat" button to convert chat history JSON files to PDF format (using file saver dependencies).
- Log out button (Okta).
- New chat button implementation.
- Integration with the backend Chatbot implementation (via Postman).
- Create a Chat History Page.
- **QA/Testing (Battal)**
 - Protecting branches: Everyone should create future branches for development (dev/stage/main for production).
 - Implement integration/functional tests.
 - Apply an Automation Framework using Behavior-Driven Development (BDD).
 - Resolve the Docker build error.
 - Set up AWS deployment in Iteration 3.

2. Setting Deadlines

- **Python AI Service**
 - All implementations to be finished by the end of this week (Sunday).
- **Spring Boot**
 - Complete integration with the AI service backend by September 25 with Poom and Tash.
 - Finish Okta integration with the login/signup page for the frontend by September 28.
- **PostgreSQL**
 - PostgreSQL setup is complete for this iteration (not applicable).
- **Integration (Backend)**
 - Complete integration from the form page frontend to the AI service backend by Friday, September 27.
- **Frontend**
 - Finish form page frontend by Friday, September 27.
 - Complete Integration API by September 30 for Postman to call the AI service implementation.
 - Develop functions for buttons (log out, save chat/convert to PDF, new chat) by October 3.
- **QA/Testing**
 - AJ to assist with unit testing (functional testing may also be

- beneficial).
 - Battal to supervise QA Testing and integration testing.
- **Docker/AWS Deployment**
 - AWS setup to begin in Iteration 3.
- 3. **Documentation Needs**
 - **README:** Ananya to update.
 - **SPPP Risk Management Docs:** Poom to complete.
 - **SDD:** Ananya to add his revision updates. Natt to include changes in the UI section.
 - **Demo:** Poom to present additional testing details alongside Battal.
 - **PPT Slides and Video:** Tash to prepare.
- 4. **Other Comments**
 - **To-do for AJ:**
 - Assist with Java, Python (autopep8), and React linting/formatting synchronization.
 - Add comments and file summaries at the top of code files for improved readability.
 - Incorporate unit tests for missing sections.
 - **Communication:**
 - Poom and Ananya to meet on September 25 to discuss API integration.
 - Natt to message teammates by Friday if additional support is needed.
 - **Testing:**
 - Unit level testing is for development and is not included in higher-level testing (functional testing).

Key Decisions:

1. Natt to prioritize the frontend on the Form Page for creating new users (urgent for the Python AI service team) to be finished by Friday this week.
2. Frontend Login/Signup page responsibilities passed to Ananya, who will handle Okta (to be completed by Sunday this week).
3. Natt to start preparing videos and presentations by next weekend (ensuring frontend functionalities are complete by next Thursday).
4. Natt to complete Chat History UI by Saturday.
5. Integrate Chatbot UI to Postman by Tuesday at the latest.
6. The Prompt Library JSON to be finalized by Friday; Tash will pass Poom the draft integration code with the JSON file.

7. Poom to test Tash's integration code for the AI Chatbot by Sunday.
8. Poom and Tash to code function calls and add Langchain agents for calling functions/save input to variables by Friday.
9. AJ to support linting, formatting, and unit testing.
10. Battal to initiate the BDD framework and continue maintaining CI/CD.
11. Next meeting scheduled for Sunday, September 29, at 9:30 PM EST.
12. If Natt or Battal need assistance, other developers should provide help once their parts are completed this week.
13. Ananya to add the security layer and push it to Iteration 3.

Action Items:

1. Discuss backend and frontend integration this week with Ananya, Poom, and Tash.
2. Battal to assist with recording during testing to share for the Iteration 2 Demo.
3. AJ is working on automating the fixing format feature to ensure everyone passes the CI workflow run.
4. Natt to complete the Create New User page as soon as possible.
5. Poom and Tash to finalize Chatbot implementation by this week (including the Prompt Library and Langchain agents).
6. Natt to finish the Postman integration for the Chatbot Implementation.
7. Ananya to set up Okta and complete the Login/Signup page.
8. Natt (and others) to focus on Chat History UI and Chat Sidebar functionality UI.
9. Update [Readme.md](#): Ananya to take the lead.
10. Update SDD: Natt to add UI revisions, and Ananya to include Spring Boot add-ons.
11. Update SPPP Risk Management: Poom to manage this task.
12. Prepare PPT slides: Tash to take charge.
13. Prepare demo: Poom (with support from Battal on QA/Testing).
14. Prepare PPT video: Tash to produce.
- 1.

Meeting 4

Meeting 4 Week 4

Date and Time: Friday, 20th September 2024 7:30 PM EST

Place: Virtual Remote Discord

Participants: Ananya Singh, Battal Cevik, Natasya Liew, Natthaphon Foithong, Poom

Chantarapornrat

Minutes taker: Battal Cevik

Timekeeper: Battal Cevik

Purpose:

- Finalizing the details of the iteration 1 build
- Documentations to finish over weekend
- Unit tests
- Updating work
- Final additions to work on for iteration 1 release

Agenda:

- Updating work for the past week
- What other things need to be done for the iteration 1 release
- Support to complete the compiling
- Setting up Linting and Formatting checks to solve the build error
- Will we be able to finish compiling tonight, or push back to monday?
- On integration between SB and python - chat_history and input parameters for the course builder.

Discussions:

- Discussed the docker file and docker compose file =
- Discussed the PR review and how to create small PRs in order to split approval
- Backend PR is ready for Spring Boot application
- For Iteration one team decided hardcoded for chatbot response for demo
- Postman Post call is ready for local deploy
- For demo we need to run spring boot locally using docker compose
- We need UI frontend docker compose to be ready
- Battal and AJ will work on configuration part
- Battal to create folder structure for repo
- Unit tests is done for ai-service
- Database design is ready
- Team needs to switch the token to session id.
- 2 part, first one we are going over SDD documents. The second going over the actual code and live demo
- Talked about linting and formatting the codes
- Talked about best practices writing codes
- To PR work in smaller chunks (per functionality)

Key Decisions:

- Finalized the docker file and docker compose file discussion
- Finalized PR review and how to create small PRs in order to split approval
- Backend PR is ready for Spring Boot application
- Updating Jira
- Creating test cases for functionalities

- Deciding on a linting package for each language

Action Items:

- UI will be ready for running locally Natt
- Create best practices for each component Battal
- For each component please add linting tool to format the code - everyone
- Poom to update the hardcoded JSON file
- Battal to include AJ on the CI/CD support
- Poom and Tash to finish up on the Prompt library for next iteration before supporting front-end or SB team, but definitely the documentations
- Tash to update the JIRA

Meeting 3

Date and Time: Sunday, 15 Sept 2024 9:35 PM EST

Place: Virtual Remote Discord

Participants: Ananya Singh, Battal Cevik, Natasya Liew, Natthaphon Foithong, Poom Chantarapornrat, Yujun Liu

Minutes taker: Poom Chantarapornrat

Timekeeper: Poom Chantarapornrat

Purpose:

- Setting up for Iteration 1
- Progress update

Agenda:

- Progress update:
 - Front-end
 - Python AI Service team
 - Chatbot base (completed)
 - Dt design/Implementation (delay)
 - MongoDB – deploy push to iteration 2
 - Prompt library (TODO)
 - Goals:
 - Level 1: Use mongodb/vector to retrieve course/program info
 - Level 2: Use dt to retrieve course building function
 - Level 3: Use prompt library for logic-based query
 - E.g. what 500-level courses options can I take
 - E.g. based on my courses I've taken, which courses can I take?
 - E.g. to graduate within x-semesters how many courses and which courses should I take a semester?

- SpringBoot Java team
 - Unit Test and other QA detailing
 - DBMS mgmt
- Check-in/Clarification (Make sure everyone is on same page)
- Iteration 1 Planning
 - What will be in it for each section
 - Front end
 - Python ai service
 - spring boot
 - CI/CD
 - Dbms mgmt
 - Reminder writers: Natt and Battal
 - Writing update
- Next steps:
 - Integration
 - Additional features
- Improvements
- Next meeting date

Discussions:

- Name changed: BU Academic Navigator (BUAN)
- Progress
 - Front-end
 - Nat is finishing the authentication page using React/Redux
 - Nat is also finishing the main chat user interface
 - Java backend
 - The backend team pushed out the initial SpringBoot code to our GitHub repository.
 - Already set up the boilerplate code to get started
 - Already created the initial Flask implementation code for the backend API.
 - Python AI API
 - The AI team pushed out the first model prototype which can answer some basic questions about course descriptions.
 - Working on the class recommendation algorithm with the decision tree.
- Iteration 1 Planning
 - The front-end team continues to finish the initial user interface just for the MVP
 - The AI team will create a mockup JSON format for the chatbot API for the

- Java backend team to test
 - Try to implement the actual Python API with Flask/HuggingFace
 - Everyone is going to have a quick meeting to integrate everything from front to back this Friday.
 - Set up docker and complete Lab 2.
 - Complete iteration 1 materials: STD, SDD, etc.
- Improvements
 - Revise our general user requirements
 - Move the tasks from GitHub issues to Jira.
 - Add more prompts to the prompt library for testing
 - Revise the SPPP file
- Next meeting date – Sunday, September 22. 9:30PM

Deliverable material responsibility

- Update readme.md (Poom)
- Presentation slides iteration 1(Natt/Battal)
- Ppt video + demo (Natt/Battal)
- Update SPPP doc (YiJun)
- Update SPPP Risk mgmt (Tash)
- Complete SDD (Natt/Poom)
- Complete STD (Battal)
- Fill progress report (Everyone + Tash)
- Code (Ananya - compile)

Key Decisions:

- Iteration 1
 - MVP
 - Front end UI
 - Course Builder
 - Vector-based RAG
 - Postgres DBMS
 - Spring Boot Integration
 - Unit Testing and QA
- Iteration 2
 - Frond end UI
 - Python AI Service:
 - Add mongodb
 - Add prompt library
 - Spring Boot Java
 - Unit Testing and QA
- Iteration 3
 - Update MVP & Testing

Action Items:

- Next meeting datetime (done – Friday 20th September)
- Finish the course builder feature by next week (Tash to finish)
- Put together Python AI script to Spring boot (Poom, Ananya)
- Set up the Postgresql database (AJ)
- Finish the Chatbot UI for iteration 1 demo (Natt)
- Unit test for course builder, chatbot, sb, and other implementation for iteration 1 (Battal)
- Documentations:
 - Readme.md (Poom)
 - Presentation slides iteration 1(Natt/Battal)
 - Ppt video (Natt/Battal)
 - SPPP doc (YiJun)
 - SPPP Risk mgmt (Tash)
 - SDD (Natt)
 - STD (Battal)
 - Progress report (Everyone + Tash)
 - Code (Ananya - compile)
 - Demo video (Natt/Battal)

Meeting 2 Week 2

Date and Time: Sunday, 08 Sept 2024 9:35 PM EST

Place: Virtual Remote Discord

Participants: Ananya Singh, Battal Cevik, Natasya Liew, Natthaphon Foithong, Poom Chantarapornrat, Yujun Liu

Minutes taker: Natasya Liew

Timekeeper: **END 10:26 PM EST**

Purpose: Finalize Iteration 0

Agenda:

- Wireframe
- Architecture Design Decision
- CI/CD Setup Decision
- Automation Test Framework
- Progress Tracking Tool Decision
- Github Tickets
- User Story Points
- Database for content

- Model tuning
- SDD write up
- Finalize Business logic Proposals
- Finalize Security Design Ideas
- SDD write-up draft
- Finalize Team Name
- Finalize Product Idea
- Update on Design: Architect, Wireframe
- CI/CD Setup done
- Database done
- Model Finalizing
- Finalize Risks
- Finalize Requirements
- Finalize UI/UX Flow
- Finalize Design Pattern

Discussions:

- Team Name: Eagles
- On Progress Tracking Tool:
 - Using Gh issues to create tickets and Using Gh Projects to track progress
- CI/CD
 - Three branches: main, staging, development
 - Use the manual approval as auditing method
 - Turning on notifications
 - Using rollback mechanism for deployment failure
- Automation test framework
 - UI: using Selenium test ng
 - Backend: Rest assure for API
- Presentation schedule:
 - Iteration 0: Lead by the Java team (Ananya and Yijun/AJ)
 - Iteration 1: Natt and Battal
 - Iteration 2: Tash and Poom
 - Iteration 3: Full team
- Architecture:
 - Refer to the diagram
 - Split work division:
 - Springboot and DBMS integration: Ananya & AJ
 - Python AI service + MongoDB/DT Graph: Tash & Poom
 - Front-end: React Redux with Natt
 - QA + CI/CD mgmt: Battal

- Do work in modular groups: arrange schedule internally; regroup on Sunday, 15th Sept after class.
- Frontend: Reach Redux + API call using Fetch
- Iteration 1:
 - Form for the input collection from user
 - mongoDB for courses based on the MSSD program
 - Create rules for the dt using a graph data structure & make
 - Level 0: program(root); Level 1: courses(child); Level 2: prerequisites(child of child)
 - Use points method and if-then statements to select the nodes to store in the variable, 'class_to_take'
 - Python script for putting together Llama 2 with the mongodb retrieval and function to run the course_selector dt.
 - Postgresql for the user information/user mgmt
 - Springboot backend setup
 - Springbooth unit test
- Iteration 2:
 - Okta authentication
 - Change the input method for user
- Final dbms decision:
 - Postgresql for user mgmt
 - Mongodb for the AI chatbot feature
- Wireframe:
 - Decide to use the top right buttons, if have time allow the left navigation bar for preview of other chat history.
- On content for documents:
 - If free, add as much to your part or any that you can answer. Others edit onto that.
 - Same rules applies for creating ticket and project progress.

Key Decisions:

- **Team name**
- **Architecture**
- **techstack/framework**
- **Methodology**
- **Best practice**
- **Work division**

Action Items:

- SPPP documents
- Presentation of Iteration 0 and the video

- Progress tracking
- Lab1
- Design and code of decision tree
- MongoDB set up and data pushed
- Initial python script for AI chatbot
- Springboot/Postgresql setup
- Adding tickets to Gh issues/project
- Frontend code

Meeting 1

Date and Time: September 3, 2024 21:25 EST

Place: Remote Virtual Discord

Participants: Ananya Singh, Battal Cevik, Natasya Liew, Natthaphon Foithong, Poom Chantarapornrat, Yujun Liu

Minutes taker: Natasya Liew

Timekeeper: END 21:51 EST

Purpose: Planning and Work Division

Agenda:

- Finalizing Tech Stack
- Finalizing Work Division
- Finalizing Deadline and Meeting Schedules

Discussions:

- Determining project scope (What to do)
 - BU Software Development Course Builder Chatbot using Python (if have time expand in next iteration)
 - Database – MongoDB
 - Model – Llama 2
 - GUI using REACT
 - wireframe
 - CRUD using Java
 - Cache chat history
 - Sharing chat history via email/print
 - CI/CD setup
 - Architecture Design

Key Decisions:

- Front-End
 - Wireframe (Natt)

- Architecture Design (Natt/Ananya?)
- CI/CD Setup (Battal)
- Automation Test Framework (Battal)
- Database (Poom/Tash)
- Model (Poom/Tash)
- Github Tickets (Tash)
- SDD write-up (AJ/Ananya)
- Next Meeting: Sunday, 8th September 20:15 EST
 - Decide on group name
 - Next steps
 - Goal: finish model

Action Items:

- Wireframe
- Architecture Design
- CI/CD Setup
- Github Tickets
- Database for content
- Model tuning
- SDD write up
- List of Requirements Options
- List of Risks Options
- List of Business logic Proposals
- List of Security Design Ideas
- SDD write-up draft

Next Meeting Agenda:

- Finalize Team Name
- Finalize Product Idea
- Update on Design: Architect, Wireframe
- CI/CD Setup done
- Database done
- Model Finalizing
- Finalize Risks
- Finalize Requirements
- Finalize UI/UX Flow
- Finalize Design Pattern