

CITS5553 Meeting Minutes

Date: 20025-08-28

Week: W6, Thursdya

Type (client/internal/mentor): internal (client in morning - no minutes)

Meeting Name/Purpose: Sync + Plan

Time: 1200-1320

Location / Platform: Lab

Attendees:

- ☐ Sirui Li (Client)
- ☐ Wei Liu (Unit Coordinator)
- ☐ Jichunyang Li (Project Facilitator)
- ☒ Franco Meng (Student)
- ☒ RuiZhe Wang (Student)
- ☒ Aswathy Mini Sasikumar (Student)
- ☒ Nirma Rajapaksha Senadherage (Student)
- ☐ Cedrus Dang (Student)
- ☒ Laine Mulvay (Student)

Agenda

1. Debrief Client meeting from the morning
2. Update on Progress
3. Plan tasks

Discussion Notes

Cedrus + RuiZhe

- They created a custom schema format to help LLMs understand the database structure more easily. This is so that we can pull from any database, but it differs from our current 'tables.json' structure.
 - The new schema still includes PK (Primary Key) or FK (Foreign Key) information.
 - These have even been changed from flags to complete JSON Keys
 - The format is intended to be more LLM-friendly.
- Cedrus and RuiZhe will continue working on setting up the backend and database linking to frontend so that agents can query it.

Agent C

- The main difference between Agent C and Agent B is that Agent C also receives FK/PK information.
- Each agent is given progressively more schema information as we drill down what database, and tables we want.
- Plan to experiment with Agent C by providing both the tables selected by Agent B and the full schema to see which approach works best.

Agent B testing

- Working on pulling a list of table names for testing purposes and saving them to confirm that Agent B is correctly selecting tables.

Work for Later (if we have time)

- For Agent A: Remove simple/stop words from the natural language query to improve cosine similarity search.
- For Agent A: If the output is incorrect, print the schemas from the sqlite file and check if the selected table could actually answer the question.
- Ash's idea: Use the list of possible questions from `train_spider.json` to feed into Agent B if the NL query isn't one of the actual questions for that database. This would be similar to a company using their past queries to help Agents A/B generate better answers.

Other Notes

- **No client meeting next week (study break).**
- **Next meeting** will be on **Thursday** (online/on campus).

Next Steps Needed

1. Cedrus and RuiZhe: Continue working on backend and database setup, and refining the new schema format.
 - push any work that is complete
2. Nirma and Laine: Build on top of Agent A/B from Franco and Ash, and start work on Agent C.
3. Franco and Ash:
 - Push work on Agent A/B
 - Set up testing for Agent B's table selection.
 - Finalise Agent A.
 - (Optional) Explore switching Agent A/B to use Cedrus' new schema format.

Next Meeting Name: Internal

- **Date & Time:** Thursday 4th
- **Location / Platform:** Online or In person
- **Next Meeting's Minutes to be prepared by:** Laine Mulvay

This Meetings Minutes prepared by: Laine Mulvay