# COMP3111 Milestone 2 Report

Topic : HKUST Freshmen Chatbot

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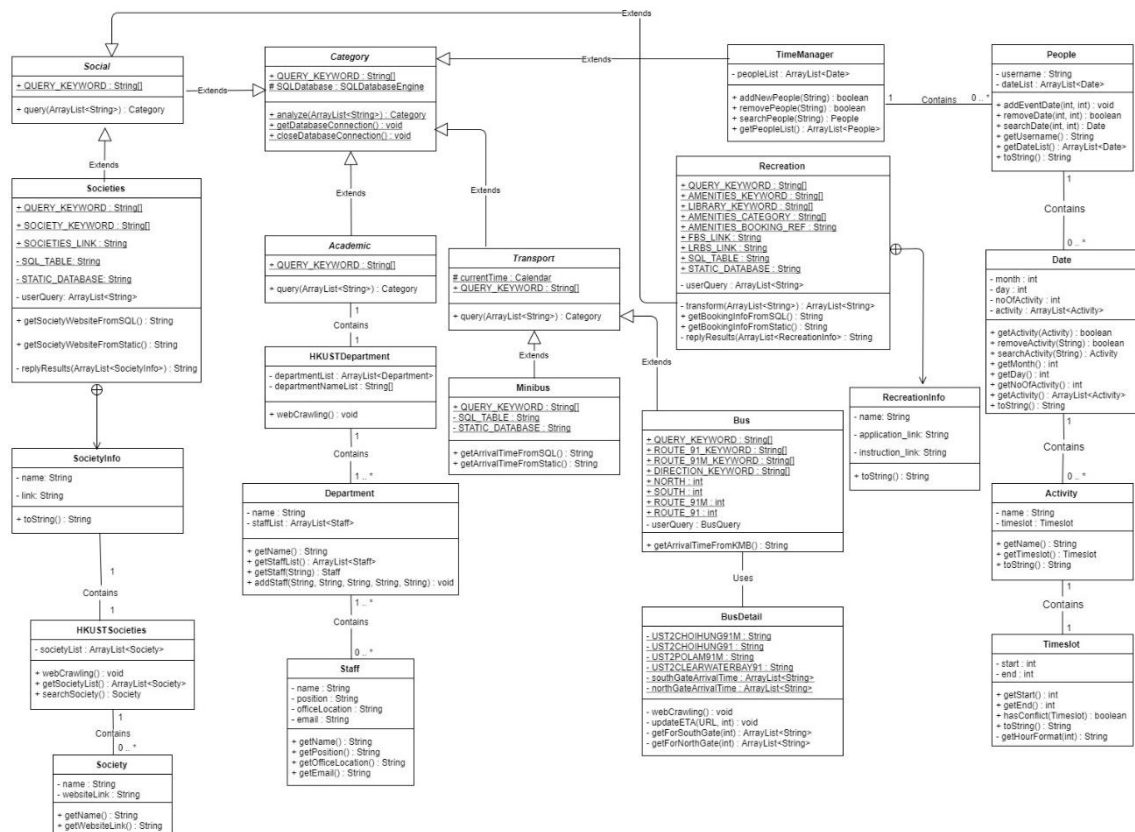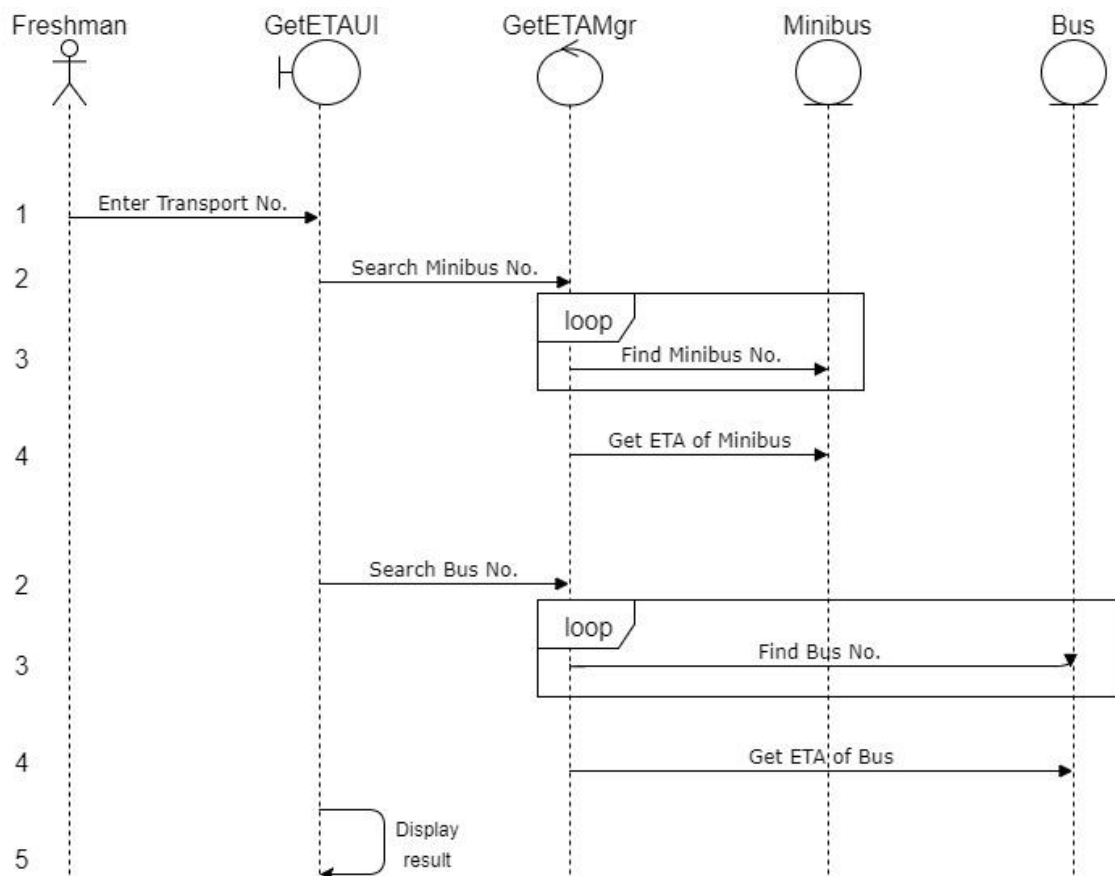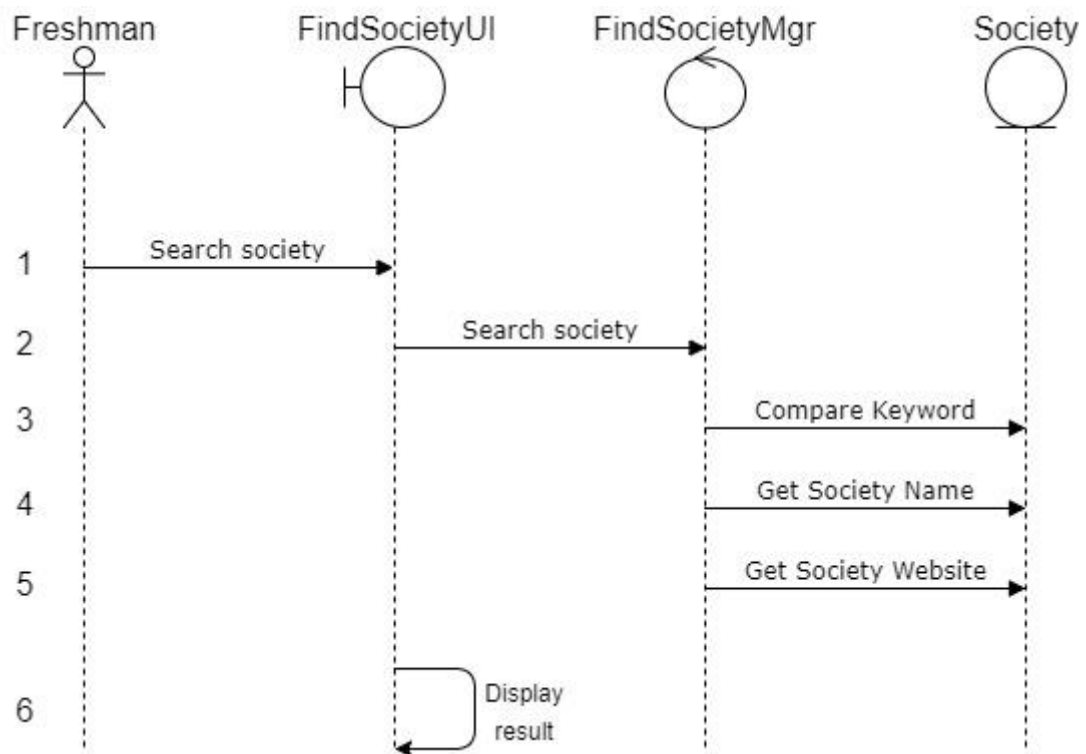**Part 1**. QR Code of LINE running prototype chatbot account



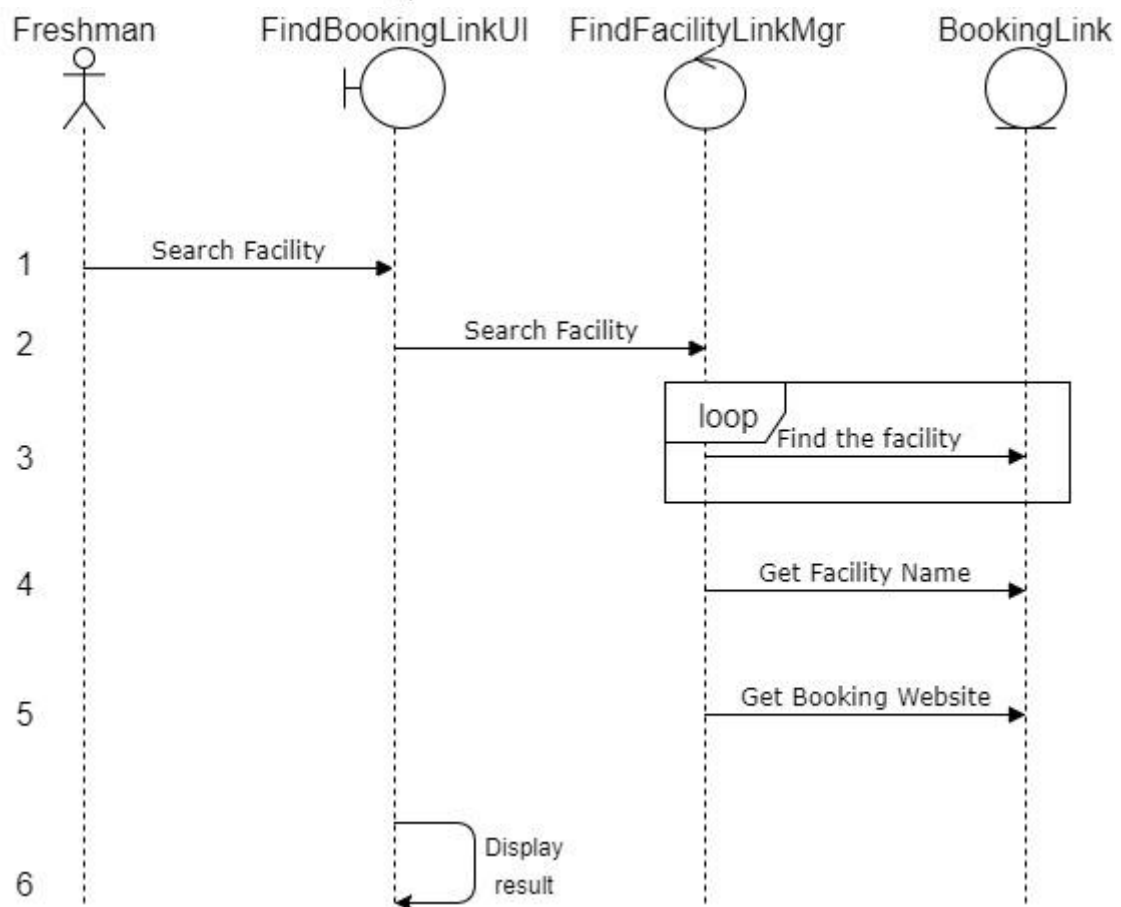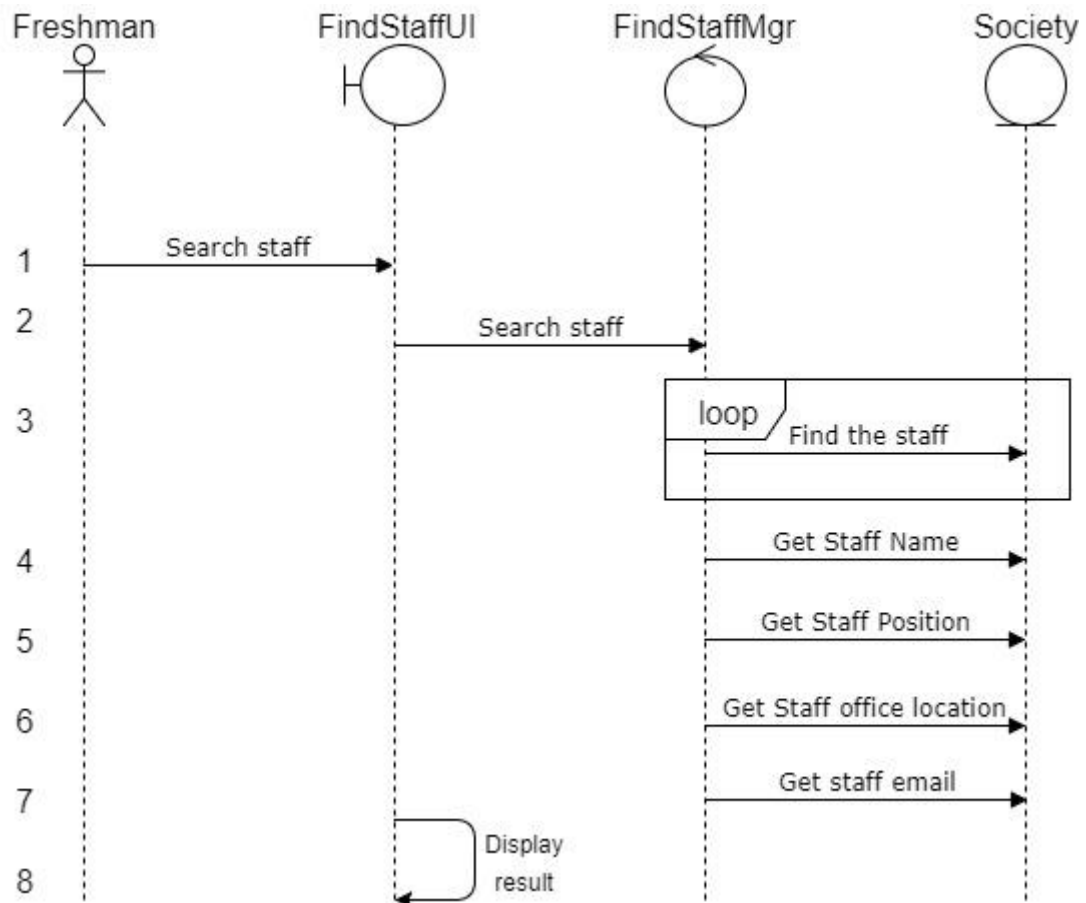**Part 2.** Bitbucket account that have access to our project folder

Email : ysschanaa@connect.ust.hk

Password: comp3111

**Part 3**. UML Class Diagram and Sequence Diagram of Project

## Diagram 1

| Freshman | FindSocietyUI | FindSocietyMgr | Society |
|----------|---------------|----------------|---------|

1. Search society (Freshman → FindSocietyUI)
2. Search society (FindSocietyUI → FindSocietyMgr)
3. Compare Keyword (FindSocietyMgr → Society)
4. Get Society Name (FindSocietyMgr → Society)
5. Get Society Website (FindSocietyMgr → Society)
6. Display result (FindSocietyUI → FindSocietyUI)

## Diagram 2

| Freshman | GetETAUI | GetETAMgr | Minibus | Bus |
|----------|----------|-----------|---------|-----|

1. Enter Transport No. (Freshman → GetETAUI)
2. Search Minibus No. (GetETAUI → GetETAMgr)
   - loop
3. Find Minibus No. (GetETAMgr → Minibus)
4. Get ETA of Minibus (GetETAMgr → Minibus)
2. Search Bus No. (GetETAUI → GetETAMgr)
   - loop
3. Find Bus No. (GetETAMgr → Bus)
4. Get ETA of Bus (GetETAMgr → Bus)
5. Display result (GetETAUI → GetETAUI)

## Sequence Diagram: Search Staff

| # | Message | From → To |
|---|---------|-----------|
| 1 | Search staff | Freshman → FindStaffUI |
| 2 | Search staff | FindStaffUI → FindStaffMgr |
| 3 | loop / Find the staff | FindStaffMgr → Society |
| 4 | Get Staff Name | FindStaffMgr → Society |
| 5 | Get Staff Position | FindStaffMgr → Society |
| 6 | Get Staff office location | FindStaffMgr → Society |
| 7 | Get staff email | FindStaffMgr → Society |
| 8 | Display result | FindStaffUI → FindStaffUI |

Participants: Freshman, FindStaffUI, FindStaffMgr, Society

## Sequence Diagram: Search Facility

| # | Message | From → To |
|---|---------|-----------|
| 1 | Search Facility | Freshman → FindBookingLinkUI |
| 2 | Search Facility | FindBookingLinkUI → FindFacilityLinkMgr |
| 3 | loop / Find the facility | FindFacilityLinkMgr → BookingLink |
| 4 | Get Facility Name | FindFacilityLinkMgr → BookingLink |
| 5 | Get Booking Website | FindFacilityLinkMgr → BookingLink |
| 6 | Display result | FindBookingLinkUI → FindBookingLinkUI |

Participants: Freshman, FindBookingLinkUI, FindFacilityLinkMgr, BookingLink

**Part 4.** Table of features approved in Milestone 1 and corresponding progress

| Features | Is Completed? (Y/N) | Sample Test Cases (if completed) | Expected Result | Checked (by TA) |
|---|---|---|---|---|
| Feature 1 – Return ETA for the shortest path between user input and destination in campus | N | N/A | N/A | N/A |
| Feature 2 – Find course website for freshman | N | N/A | N/A | N/A |

| | | | | |
|---|---|---|---|---|
| Feature 3 – Provide academic advice for freshman like study path | N | N/A | N/A | N/A |
| Feature 4 – Time manager function to help freshman plan their schedule wisely | Y | Add Event | Return "Event added" | |
| | | Remove Event | Return "Event Removed" | |
| | | Display Schedule of freshman on particular day | Successfully display the schedule within the inputted date | |
| | | Display all event for the freshman that he has inputted before by using back his registered username | Successfully display all the schedule and event coming up for the freshman | |
| Feature 5 – Provide links to various booking system of campus facilities to freshman | Y | Ask the chatbot where can we book a room by placing keyword like "music room" in middle of sentence | Return corresponding link successfully | |
| | | Ask the chatbot with keyword outside of the database | Return corresponding replacement for suitable room booking link | |
| Feature 6 – Get ETA for bus and minibus that available in campus like 91, 91M and 11 | Y | Ask the chatbot the arrival time of minibus by placing keyword "minibus", "minibus 11", "11 minibus" at the end of sentence | Return the ETA of minibus successfully | |

| | | | | |
|---|---|---|---|---|
| | | Ask the chatbot the arrival time of minibus by placing keyword "minibus", "minibus 11", "11 minibus" at the middle of sentence | Return the ETA of minibus successfully | |
| | | Ask the chatbot the arrival time of minibus by placing keyword "minibus", "minibus 11", "11 minibus" at the end of sentence | Return the ETA of minibus successfully | |
| Feature 7 – Search for all societies available in UST, displaying name and website to freshman | Y | Ask the chatbot by placing keyword like "film society" at the end of sentence | Return corresponding info of society if there are any matches | |
| | | Ask the chatbot by placing keyword like "nature club" at the front of sentence | Return corresponding info of society if there are any matches | |
| | | Ask the chatbot by keyword "UST Soc" inside sentence | Return results with "There are a variety of UST societies" inside | |
| Feature 8 – UST staff information enquiry function for freshman, Provide office location etc | Y | Ask the chatbot about information of staff in UST by exact staff name in middle of sentence | Return the information of the staff successfully, like their office location and email | |
| | | Ask the chatbot about information of staff in UST by staff last name | Return the first occurrence in our database with the staff of matching criteria | |
| Feature 9 – Login | N | N/A | N/A | N/A |

| | | | | |
|---|---|---|---|---|
| freshman SIS and get waitlist result if any | | | | |
| Feature 10 – Get freshman input and check if their course can apply credit transfer | N | N/A | N/A | N/A |