

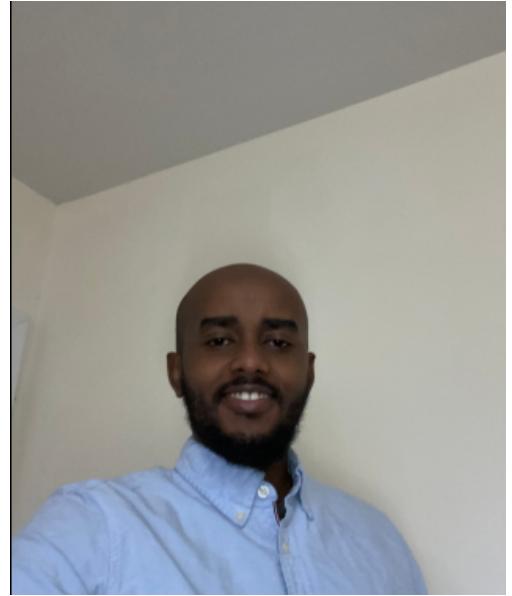
ByteBand

Group Members

Name	utorID	Student ID	Role
Ismail Bashir Ahmed	ahmedi19	1005656540	Scrum master
Jason Yee	yeejaso3	1008433848	Team member
Jun Kai Zhang	zha12526	1008786253	Team member
Mark Lin	linrong7	1008430752	Team member
Ankhjargal Ankhbayar	ankhbaya	1008494498	Team member
Yibai Wang	wangyiba	1005945934	Team member
Liang Ma Yuan	liangma	1003183495	Team member

Ismail Bashir Ahmed

My name is Ismail Ahmed. As a fourth-year Software Engineering student, I possess a solid foundation in computer science principles and a passion for technology and innovation. My academic journey has been marked by a rigorous curriculum, where I've excelled in courses like Data Structures, Algorithms, and Systems Programming, equipping me with a strong problem-solving aptitude and a keen understanding of software development lifecycles. I have complimented my coursework with practical experience through various projects and internships. These experiences have honed my skills in multiple programming languages, including Java, Python, and C++, and have familiarized me with modern development tools and methodologies such as Agile and DevOps.



Jason Yee

A curious and driven software developer, I am currently studying at the University of Toronto as a third year student. I am mainly interested in developing simulators, but am also interested in learning web development. I am currently trying to teach myself graphics programming. On the side, I like to play games like Minesweeper, and (Klondike) solitaire

Mark Lin

My name is Mark Lin and I'm a third year computer science student at the University of Toronto Scarborough. I possess strong skills and experience in languages such as Java, C, Python and Javascript. I am most interested in web development and have experience working both on the frontend and backend of web applications. Through practical experience, I am well versed in frameworks such as React, Next.js, Express and GraphQL as well as tools like Docker and Google Cloud. I also enjoy problem solving and figuring out unique efficient solutions to different problems.





Liang Ma Yuan

I'm a dedicated software developer with a strong foundation in problem-solving, teamwork, and adaptability, demonstrated through multiple projects, including full-stack app development and game design at the University of Toronto Scarborough. My technical skills span Java, C++, React Native, and agile methodologies, with significant experience in Firebase and MongoDB for dynamic data management. Fluent in English, Cantonese, and Mandarin, I bring a versatile skill set and a creative approach to software development.

Jun Kai Zhang

My name is Jun Kai Zhang. Studying at University of Toronto Scarborough, I am currently a third-year Computer Science student. I have a strong passion for building fun and applicable software, but I also occasionally make games as a side hustle. From academic and personal projects, I have garnered a considerable amount of experience in multiple languages, including C++, C, Java, and Python. I also have solid knowledge of principles and methodologies commonly used in software development, including Agile and software design.



Ankhjargal Ankhbayar

My name is Ankhjargal Ankhbayar. Currently a third-year Computer Science student at University of Toronto Scarborough. During my studies at the university, I am building and improving my skills on Software Developing, Data Structures and Algorithms, Computer Organization and Database. During that time, I have gained some valuable experience in several programming languages including Python, C, Java, JavaScript, Assembly and Racket. During this project, I am willing to gain some powerful skills on JavaScript, NoSQL, React, MongoDB and more. I am looking forward to participating and giving my full potential in the project.

Yibai Wang

My name is Yibai Wang, I am an innovative and motivated young adult, proficient in multiple programming languages, such as Java, C, Python, and JavaScript. Confident software development skill and team working experience. I am a third-year undergraduate student at the University of Toronto Scarborough. I always believe cooperating and communicating with peers can solve anything.



Personas

1. Feature CCC04

Sophia Patel is a 38 year-old female restaurant owner. Her tech abilities are moderate. Sophia wants to expand her business's visibility and community involvement. She is concerned about the limited ways to participate in community programs through technology. She is motivated by community presence, attracting more customers, and being a part of a communal project. Sophia engages with local business groups, looking for new opportunities for partnerships. Sophia is interested in joining the GoHere Washroom Locator Program to attract customers and serve the community.

2. Feature CCC01

John Smith is a 44 year-old married male living in Fredericton, NB, Canada. He is unemployed but likes to travel around places to take pictures. He has a caring personality and often helps those around him whenever he can. He is not very experienced with using technologies and mobile devices. His wife, Clara, who deals with Crohn's disease, often requires the use of washrooms more than 10 times each day. Since the number of registered washroom locations in his city is scarce, John himself wants to help register locations of publicly accessible washrooms — which he used on his travels — on the GoHere app. He hopes that by doing so, his wife can more easily access washrooms in her vicinity when she travels.

3. Feature CCC03

Jose Murcia is a 27 year-old male. He is a full-time Uber driver. He is suffering from IBD and has high demand for accessible washrooms. As an Uber driver, he travels around the city. Jose uses GoHere, a Washroom finding applications in his phone to have better washroom experience. However, not all washrooms recommended in GoHere are enjoyable, as some of the washrooms are barely cleaned, lack toilet paper, or have plumbing issues. To avoid using those washrooms again, Jose ironically saved all washrooms he had a difficult time with.

4. Feature CCC02

Yoon Jong-hee is a 55 year-old female. She just immigrated to Canada. She was diagnosed with ulcerative colitis a few years ago. After arriving in Canada, Jong-hee gets really busy applying for government issued IDs, finding new jobs, and making new friends. As an immigrant living with disadvantaged socio-economic status, Joon-hee relies on public transportation to go everywhere. When she is in an urgency to defecate, she has to check on GoHere and make a schedule before leaving the bus. But things are not always as planned, sometimes the washroom she was looking for is temporarily

closed, but is not informed in the application. Which leads to frustration and inconvenience.

5. Feature CCC07

Jordan Lee is a 27-year-old blogger who is very tech-savvy. He aims to stay informed about community initiatives and news. Jordan's frustration comes from inefficient content delivery methods for local news. He is motivated by the desire to be a first-mover in discussing and promoting community news and initiatives. As someone who consumes a vast amount of content daily, Jordan would appreciate a dedicated section in the app for news and updates, allowing him to get information directly and quickly.

6. Feature CCC06

At 45 years old, Anita Rodriguez is the Corporate Social Responsibility Manager for her company and is highly tech-savvy. She is goal-oriented towards gaining positive exposure for her company by sponsoring community-friendly projects. Anita is frustrated by the limited sponsorship avenues that align with her company's values and provide visibility. She seeks out digital solutions for visibility and engages in CSR activities, looking for a well-designed UI/UX in the app to showcase their contribution.

7. Feature CCC05

Lucas Martinez, a 52-year-old philanthropist, is a moderate user of technology who wishes to support community programs financially. He often finds himself challenged by the lack of transparent and easy ways to donate to local projects. Motivated by his desire to give back to the community, he regularly donates to various causes and prefers straightforward donation processes. Lucas looks for a feature within the app that allows him to make quick and secure donations to support the GoHere program.

User Stories

1. Feature CCC01 - Submit Information on Washrooms

As a user, I want to be able to submit information about publicly accessible washrooms directly through the app, so that I can easily share this information with the community.

2. Feature CCC02 - Washroom Availability Status

As a user, I want to receive real-time updates on the status of washrooms, so that I can plan my visits accordingly and avoid closed facilities.

3. Feature CCC03 - Ratings and Feedback

As a user, I want to provide ratings and feedback on washrooms I've used, so that I can inform others about the quality and condition of the facilities.

4. Feature CCC04 - Business Participation

As a business owner, I want an easy way to join the GoHere Washroom Locator program through the app, so that I can promote my business's washroom facilities to the public.

5. Feature CCC05 - Raising Funds

As a donor, I want a simple way to contribute financially to the GoHere program through the app, so that I can support the maintenance and expansion of the washroom locator service.

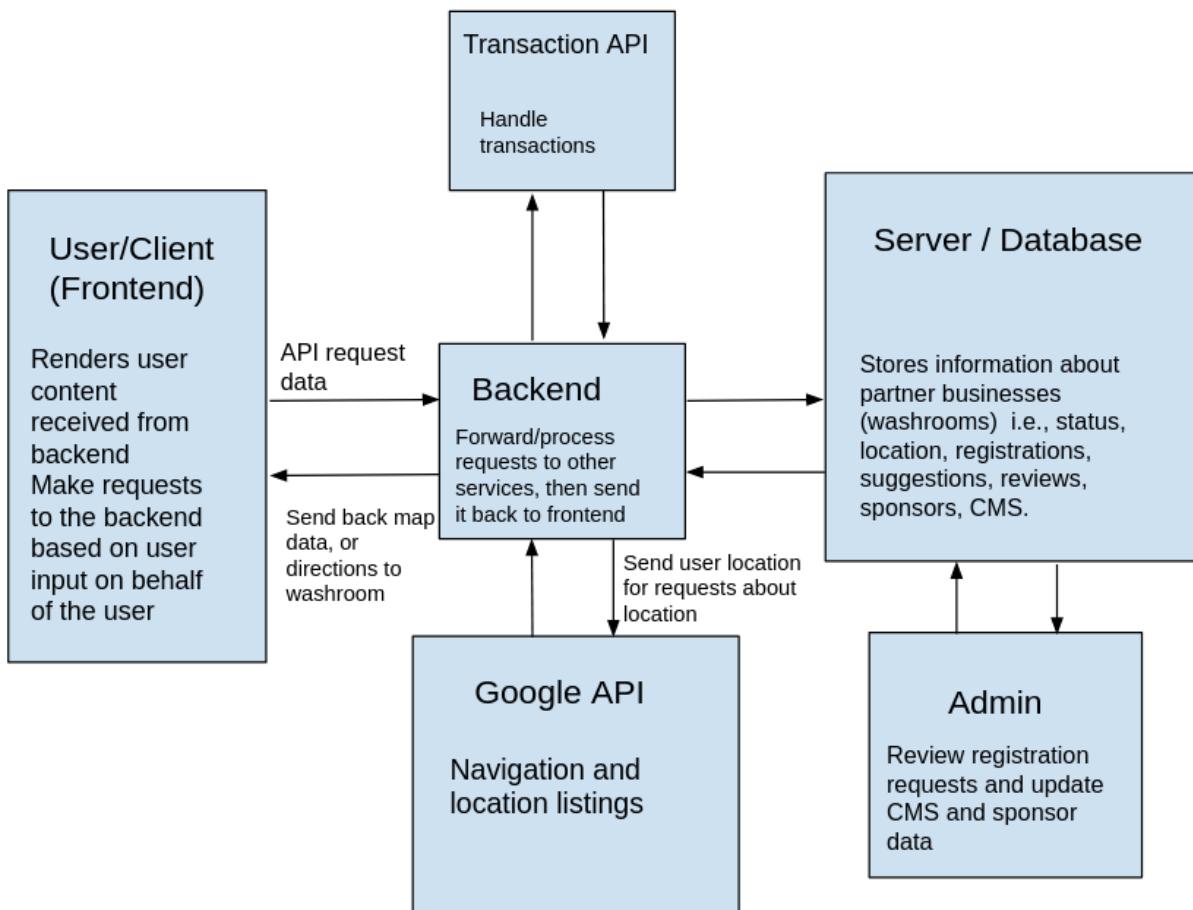
6. Feature CCC06 - Sponsorship and Stakeholder Recognition

As a sponsor, I want a way to gain recognition within the app, so that users can see my support for the community and the GoHere program.

7. Feature CCC07 - Real-time Content Publishing

As a user, I want to receive news and updates through the app, so that I can stay informed about the GoHere program and any new washroom additions or changes.

System Architecture Diagram



Team Expectation Agreement

Methods of Communication

- Discord – Primary form of communication
- Email – If a team member is non-responsive on Discord

Communication Response Times

- Discord: Within 24 hours

Types of Meetings

- Stand-up Meetings
 - These are mandatory and with a maximum 5 minutes grace period for tardiness. These meetings will consist of: progress reports with opportunities to comment, or add suggestions for improvement from each team member, a discussion of what needs to be done, and assigning of tasks to team members.
 - In the event a member misses 2 standups in a week without sufficient prior notice, the scrum master will privately approach them and follow up.
 - Times:
 - Every day 9 pm online - shorter, aim for 15 minutes or shorter
 - Wednesday @ 1 pm in person - longer

Meeting Preparations

- Before every meeting, each team member is expected to prepare a quick presentation of their progress.

Submitting Work

- Team work will be submitted to the github repository [here](#)

Contingency Planning

- If a team member drops the course, they are expected to inform other team members. Upon being notified, all team members should meet and redivide their assigned work evenly amongst the remaining members of the group.

Task Management

- Jira will be used for user stories Management.

Signatures

1. Ismail Bashir Ahmed
2. Jun Kai Zhang
3. Mark Lin
4. Ankhjargal Ankhbayar
5. Jason Yee
6. Liang Ma Yuan
7. Yibai Wang