

Team Head Empty

CSCC01 W24 - Deliverable 1

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Team Information

Full Name	Student Number	UTORID	Email address
Nathan Wong	1008070089	wongna42	nathanml.wong@mail.utoronto.ca
Yu Yin Lee	1008421968	leeyu23	felixyy.lee@mail.utoronto.ca
Chun Kang Lu	1008161150	luchun3	chunkang.lu@mail.utoronto.ca
Avik Chakraborty	1007067745	chakr205	avik.chakraborty@mail.utoronto.ca
Vidhi Shah	1006794541	shahvid5	vidhii.shah@mail.utoronto.ca
Germán Tarnoski	1010799593	tarnoski	german.tarnoski@mail.utoronto.ca
Keethan Jeyabalan	1008195622	jeyaba20	keethan.jeyabalan@mail.utoronto.ca

About

Nathan Wong



Third-year CS student at UTSC. Full-stack developer familiar with C#, SQL, React, Angular, Java, and Java/TypeScript. Also experienced working in Agile (scrum) teams through previous co-ops. Has co-op experience working as a Software Developer at Genexis Design Inc. (4 months) on a mobile CAD model viewer using Unity. Additionally, at Caseware International Inc. (8 months) as a Software Developer on the cloud team.

Yu Yin Lee



I am a third-year CS student at UTSC. I have proficiency among procedural programming languages such as C, Python, Java. Besides, I also have a deep experience with Haskell, about lazy evaluation and parsing. I am also familiar with query languages such as pSQL. I had an 8-month co-op experience at CIBC, focusing on script writing and web automation with the use of Python. Currently, my focus is on machine learning, mainly about regression models and probability estimation. Other than that, I am having an Agile (scrum) project about web automation and a project about operating systems, with C, as well.

Chun Kang Lu



Third-year software engineering student at UTSC with a passion for all fields in tech with a particular emphasis on machine learning. Had one prior 4-month internship at Healthcare of Ontario Pension Plan in developing an investment data processing pipeline and currently undertaking a 4-month internship at Dash Hudson as a Software Engineering Intern developing data infrastructure for social media analytics. Additionally, is currently in the University of Toronto Machine Intelligence Student Team as an ML developer for a student-led project.

Avik Chakraborty



I am a third-year software engineering student at UTSC. Full-stack developer familiar with Java, Python, C, Javascript, MERN stack, also experienced working in Agile (scrum) teams through previous co-ops. I had a 12-month co-op experience at Rakuten Kobo as a Mobile Automation QA Test Engineer, focusing on creating automated tests for iOS app using Javascript and the WebdriverIO automation tool. Other than that, I am working on a project about operating systems with C and learning about functional programming as well.

Vidhi Shah



Third year computer science student at the University of Toronto (Scarborough) with proficiency in C, C#, Java, Python alongside notable experience in Object Oriented Programming and Full Stack Web Development (including HTML, CSS, JavaScript, TypeScript, MERN, PostgreSQL and SQL). Previous work experience includes a 12-month co-op as a Back-End Software Developer at RewardOps, working with Ruby On Rails and PostgreSQL, using Agile methodologies in a collaborative environment. Currently majorly interested in functional programming, database management, and technical art/scripting!

Germán Tarnoski



Fifth-year Computer Engineering student from Argentina currently on exchange at UTSC, enrolled in Computer Science courses. Proficient in Python, C# and SQL (MySQL, SQLServer, SQLite), I've applied my knowledge in various roles. As a freelancer and data analyst, I contributed to and led web scraping and automation projects, employing tools like Python, Pandas, Selenium, Django, and more to develop web apps, improving processes and significantly reducing task completion times. Now, I am an AI Data Trainer, using my expertise to enhance AI models through specialized training, quality assurance, and mentorship. My main interests are automation and AI.

Keethan Jeyabalan



I'm currently a third-year software engineering student from UTSC. I am proficient in Python, Java and C, and have some experience in full-stack development. I had a previous co-op work term at the University of Toronto as an Application Developer where I worked on rebuilding their frontend with Vue.js, as well as creating Python scripts for data processing. I am looking to widen my skill set, and willing to take on new challenges.

Team Agreement

Communication Methods

Group Discord Channel

Response Times

As soon as possible. (Have Discord open and respond if pinged)

Meetings

- Sunday 4pm
- Wed. 7pm

Contingency

- The entire team should be notified if one cannot make it to a meeting or propose a reschedule.
- The TA will be notified if any issues arise (e.g. member isn't finishing their tasks, member leaves group, etc).

GitHub / Technical / Best Practices

- Use feature branching - create one branch/PR for each Jira ticket
 - Branch names should be in the format "HMTY-<ticket_id>-<branch_name>"
 - E.g. HMTY-1234-initialize-app
 - Commits should be in the format "HMTY-<ticket_id> <commit_name>"
 - E.g. HMTY-1234 add package.json
 - PR titles should be in the format "[HMTY-<ticket_id>] <ticket_name>"
 - E.g. HMTY-1234 Initialize App
 - See [Reference Issues](#)
- Write unit tests before feature merge (ie. PR should include tests)
- Two reviewer approvals needed to merge PR into main
 - After merge, delete the branch
- Don't commit directly to the main branch (you probably can't anyways, direct write access will be locked)
- Have a CI/CD process to ensure consistent formatting (& run unit tests if possible)

Definition of Done:

- Functionality is complete
- All tests pass
- Code is linted/formatted
- Ticket and subtasks are all marked complete
- PR is merged

Signatures

Nathan Wong

Yu Yin Lee

Chun Kang Lu

Germán

Keethan Jeyabalan

Vidhi Shah

Avik Chakraborty

Personas

1. Admin

Name: Ashleen O'Malley

Age: 32

Family: Divorced, has one son

Job: Head System Administrator at PaRx

Education: Bachelor's Degree with a double major in Environmental Science and Management

Hobbies: Gardening, hiking in the local nature reserves, practicing yoga, having picnics at parks with her son

Scenario: Ashleen is the Senior Administrator at PaRx, where she oversees the administration of prescription orders manually by verifying each prescriber is in good standing, generates provider codes and creates prescription files. She is also responsible for monitoring progress from patients and prescriber users by having access to all prescriber and patient profiles.

Motivation: She finds the manual process tedious, inefficient and frustrating and wishes to find an automated solution that will help her achieve her goal of prescribing people to see the beauty of nature to as many people as possible with the help of an optimized workflow.

2. Prescriber

Name: Dr. Mary Smith

Age: 38 years old

Family: Married with two teenage children.

Job: General practitioner at a community health center

Education: Bachelor's degree in Medicine and specialization in family and community medicine.

Hobbies: Enjoys gardening and spending time in nature.

Scenario: Dr. Smith works as a general practitioner, treating patients of various ages and health conditions. She observes that many of her patients suffer from stress, anxiety and other conditions, generally related to a sedentary lifestyle and lack of connection with nature. She believes spending time outdoors to be valid therapy, and she would be interested in prescribing outdoor activities, such as walking in a specific part, as an integral part of her patient's treatment.

Motivation: Dr. Smith finds that her knowledge about green spaces in her country is lacking, and would benefit from a system that aggregates them and that easily lets her prescribe going to these places to her patients.

3. Patient 1

Name: Alex Clover

Age: 28

Family: Single

Job: Call Center Worker

Education: Highschool Diploma

Hobbies: None

Scenario: Alex is a call center employee that works a normal 9-5. Life feels like an endless loop that he can't get out of and he's trying to find motivation to keep going. After his recent divorce, he feels that has nobody left but himself, and he is trying to find ways to get his mind off of it.

Motivation: He had just visited a doctor that prescribed him to get outside, go on walks and see nature as a hobby. He received the prescription and he needs to log his prescription to gain access to the Discovery Pass.

4. Patient 2

Name: Benjamin Dover

Age: 42

Family: Married with 3 children

Job: Recently let go

Education: Bachelor's Degree in Computer Science

Hobbies: Gaming

Scenario: After being let go, Benjamin tries his best to get another job to support his family. The constant rejections however degrade his mental well-being and lead him to despair, developing a gaming and drinking addiction to cope with the stress and need to sustain his family.

Motivation: His wife Carol, concerned for him, asked her friends for advice to remedy the situation and multiple friends suggested exercise and seeing sunlight as studies have shown it to have a positive correlation with one's mental health. Persuaded by his wife and children, Benjamin was willing to make the change gradually, but with no income, he needed a cheaper way to get access to the various activities. He finds this Discovery Pass as the perfect solution and Green Resources as a great way to find activities for the whole family.

User Stories

System Admin (Coordinator & Assistant)

1. As a system administrator, in order to ensure the authenticity and eligibility of prescribers in the system automatically, I need a prescriber verification platform.
2. As a system administrator, in order to ensure the validity of prescriber information, I need read and write access to prescriber information
3. As a system administrator, in order to ensure the validity of prescription information, I need read and write access to prescription information from prescribers
4. As a system administrator, in order to execute administrative tasks, I need the ability to log in as an "admin"

System Coordinator (additional permissions)

5. As a system coordinator, in order to let patients know Discovery Pass is sent, I need the ability to manually update prescription statuses for all users.
6. As a system coordinator, in order to confirm Discovery passes in a timely manner, I need notification when such a request is raised.
7. As a system coordinator, in order to ensure the validity of prescription information, I need read and write access to prescription information from all users

Prescriber

8. As a prescriber, in order to prescribe or check on patient prescriptions, I need the ability to log in as a "prescriber"
9. As a prescriber, in order to initiate a patient's treatment plan, I need the ability to log a new prescription into the system.
10. As a prescriber, in order to check patients I may need to follow up with, I need the ability to view all of my logged prescriptions.
11. As a prescriber, in order to give recommendations for patients based on their location, I need the ability to search and view Green Resources.

Patient

12. As a patient, in order to request for necessary access for treatment, I need the ability to raise a form to log a new prescription.
13. As a patient, in order to check the status of all the prescriptions that I have raised, I need the ability to view all of my prescriptions.
14. As a patient, in order to conveniently find locations for treatment, I need the ability to search and view Green Resources.
15. As a patient, in order to know when a Discovery Pass is sent, I need notification when such a request is completed.
16. As a patient, in order to log a prescription, I need the ability to register or login the system as "patient".