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COMP90082-2023-SM1-Digital-Health

Project Description

Our team is working on the development of a cutting-edge platform designed to enhance the analysis of clinical documentation in the digital health area. The primary objective of this platform is to determine whether medications prescribed to patients are appropriate by normalizing free-text clinical notes and mapping them to canonical clinical terms.

The platform's primary function is to simplify the process of associating free-text descriptions, which generally explain the reasoning behind prescribing specific medications, onto a Universal Indication List (UIL), which serves as a subset of the broader standardized knowledge base of clinical terms called SNOMED CT.

The platform features the integration of a human-in-the-loop system, which allows for manual review and correction of the mapping results. This feedback will be used to continuously enhance the platform's accuracy and performance.

This curation feature will further streamline the mapping process, ensuring that the most relevant and commonly used clinical terms are easily accessible for healthcare professionals and researchers.

Overview

Agile Methodology	Scrum
Status	Sprint 2 (Development Sprint)
Team Location	Melbourne, Australia
Team representative's Email	doncd@student.unimelb.edu.au

Important Pages



Github



Figma: Prototype



Trello (Join by invitation Link)

Motivation, mission and vision

Due to the fact that extracting information from free-text clinical notes could be very difficult, our platform could be used to help medical researchers

- map the short texts into a certain category and view them
- manually curate the incorrect or unrecognised mapping result
- feed corrections back to improve the system
- download the mapping results

We hope that our final product could be officially deployed and used by our client to help real-world medical researchers.

Client



Daniel Capurro

Email: dcapurro@unimelb.edu.au

Daniel is a Medical Doctor, trained in Internal Medicine, and hold a PhD in Biomedical and Health Informatics from the University of Washington in Seattle. He is the Deputy Director of the Centre for Digital Transformation of health where he co-leads the Digital health Validitron (a pipeline to validate digital health innovations in a way similar to what happens with drugs and vaccines) and the Data Science stream.

Client Goals

- Developing a platform that will assess if a medication has been appropriately prescribed to a patient.
- Set up and customise a platform that will allow a human-in-the-loop to manually review the results of the mapping, make corrections, and feed these back to re-train the system.

Supervisor



Mauro Mello Jr

Email: mauro.mellojr@unimelb.edu.au

Extensive experience in Information Systems and Information Technology (since 1978) and tertiary education (since 1982). The fields are involved with Business and management, Consulting activities, Project management activities and IT and systems development methodologies.

Meet the team



Kunxi (Quincy) Sun

Email: kunxis@student.unimelb.edu.au

Role: Product Owner

Responsibility:

- Ensures the team delivers the most value to Daniel
- Backend, Design, Operation



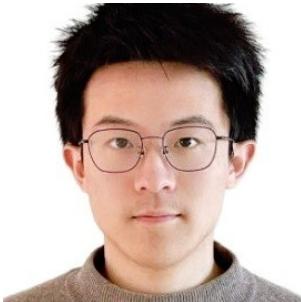
Chenyang (Peter) Dong

Email: doncd@student.unimelb.edu.au

Role: Scrum Master

Responsibility:

- Responsible for ensuring that the Scrum framework is followed
- Frontend, Backend



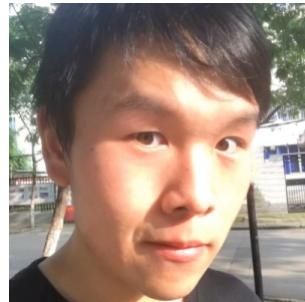
Hanyi (Henry) Gao

Email: hanyig1@student.unimelb.edu.au

Role: Development Team Member

Responsibility:

- Implements the system
- Frontend, Testing, Design



Yulai (Ricardo) Luo

Email: yulail1@student.unimelb.edu.au

Role: Development Team Member

Responsibility:

- Implements the system
- Frontend, Backend, UX



Yue (Molly) Fei

Email: yffei@student.unimelb.edu.au

Role: Development Team Member

Responsibility:

- Implements the system
- Frontend, Backend, UX

Recent space activity



Chenyang Dong

Technique Detail updated 2 minutes ago • [view change](#)

COMP90082-2023-SM1-Digital-Health updated 7 minutes ago • [view change](#)



Yue Fei

2023-04-27 Code Review Report - BackEnd updated 22 minutes ago • [view change](#)



Chenyang Dong

(Unsolved) ISSUE0001: Login incorrect error message updated 45 minutes ago • [view change](#)

2023-03-24 Meeting notes - Team (Sprint 1 Review & Sprint 2 Plan) updated 46 minutes ago • [view change](#)

Space contributors

- Chenyang Dong (2 minutes ago)
- Yue Fei (22 minutes ago)
- KUNXI SUN (58 minutes ago)
- Ricardo Luo (10 hours ago)
- Hanyi Gao (1 day ago)
- ...

Requirements

Table of Content

Title	Creator	Modified
Product Backlog	Chenyang Dong	yesterday at 6:00 PM
Background	Chenyang Dong	yesterday at 5:57 PM
User Stories and Acceptance Criteria	KUNXI SUN	yesterday at 10:14 AM
Use Cases	Chenyang Dong	29 Apr, 2023
Personas	Chenyang Dong	29 Apr, 2023
Motivational Model	Chenyang Dong	29 Apr, 2023
Non-Functional Requirements	Chenyang Dong	29 Apr, 2023
Milestones	Ricardo Luo	28 Apr, 2023
Functional Requirements	Chenyang Dong	28 Apr, 2023
Project Scope	KUNXI SUN	28 Apr, 2023
Digital Prototype	Chenyang Dong	02 Apr, 2023

Background

1 Clinical Documentation Analysis

1.1 Importance of Clinical Documentation

Clinical documentation is a critical component of healthcare, as it serves as a record of a patient's medical history, diagnosis, treatment, and care. Accurate and comprehensive documentation enables healthcare providers to make informed decisions and facilitate effective communication among team members. Additionally, clinical documentation plays a crucial role in various areas such as medical research, quality improvement initiatives, and billing or reimbursement processes.

1.2 Challenges in Extracting Information from Free-Text Clinical Notes

Free-text clinical notes are widely used in medical practice, as they allow clinicians to describe complex cases efficiently. However, extracting structured and actionable information from these notes is a challenging task. Natural language processing (NLP) techniques can be used to analyze and process free-text clinical notes. However, variations in terminology, abbreviations, and linguistic structures can lead to inaccuracies and inconsistencies when mapping the extracted information to standardized medical terms.

2 SNOMED CT

2.1 A Brief Overview of SNOMED CT

SNOMED CT (Systematized Nomenclature of Medicine - Clinical Terms) is a comprehensive, multilingual clinical terminology system designed for the global healthcare community. It enables the consistent representation of clinical information across different systems and facilitates interoperability between healthcare providers. SNOMED CT includes over 350,000 clinical concepts, each with a unique identifier, and supports mapping to other coding systems like ICD-10.

2.2 Benefits of Mapping Clinical Terms to SNOMED CT

Mapping clinical terms to SNOMED CT offers several benefits:

1. Enhanced data consistency and accuracy, as it enables a standardized representation of clinical concepts.
2. Improved communication and understanding among healthcare professionals.
3. Facilitation of medical research and data analytics by providing a common language for data sharing and comparison.
4. Streamlined billing and reimbursement processes through standardized coding.

3 Universal Indication List (UIL)

3.1 A Brief Overview of UIL:

The Universal Indications List (UIL) is a SNOMED CT coded list that standardizes indications for antimicrobial drug use and infections.

3.2 Development of UIL:

The UIL was developed and is maintained by the National Centre for Antimicrobial Stewardship - Guidance Group (Melbourne Health, Australia) in line with the Implementation Plan for Australia's National Antimicrobial Resistance Strategy.

3.3 Applications of UIL:

The UIL can be used in various clinical systems, including electronic medical records (EMR), electronic medication management (EMM) systems, auditing tools (e.g. NAPS), and antimicrobial stewardship approval systems (e.g. Guidance).

3.4 Customization of UIL:

While primarily designed for the Australian healthcare setting, the UIL can be customized for use in other countries.

3.5 Benefits of UIL:

The UIL promotes interoperability, seamless data flow between clinical systems, and standardization of local and national reporting. This facilitates audits, clinical research, benchmarking, and surveillance.

4 Ontoserver

4.1 Overview of Ontoserver

Ontoserver is a terminology server developed by CSIRO that provides a wide range of features to support the use of clinical terminologies, such as SNOMED CT, in healthcare applications. It allows for the storage, management, and querying of clinical terms and supports mapping between different terminologies. Ontoserver can be deployed locally and tuned to specific data sets, offering flexibility and adaptability to various healthcare contexts.

4.2 Features and Capabilities

Ontoserver provides several features and capabilities, including:

1. Terminology storage and management: Efficiently store and manage large terminologies such as SNOMED CT.
2. Mapping: Perform mapping between different terminologies and code systems.
3. Querying: Retrieve and search clinical terms using advanced query capabilities.
4. Customization: Customize the server to suit specific healthcare applications and requirements.
5. FHIR Standard and Syndication: Ontoserver implements the FHIR (Fast Healthcare Interoperability Resources) standard, ensuring seamless integration with other FHIR-compliant clients and systems.

4.3 Licensing

- Within Australia, email help@digitalhealth.gov.au to request a (free) Ontoserver licence. ADHA will then arrange authorisation for your [quay.io](#) account
- Elsewhere, email ontoserver-support@csiro.au to discuss licensing terms (both evaluation and production licences are available for single and multiple instances with no limit on the number of users). Once the licence is established, CSIRO will register your [quay.io](#) account name to enable access to their repository
- Note: The license is provided for either individual or organisation. University of Melbourne holds an active license, if you would like to use the license from Unimelb, please contact who is responsible for the Ontoserver license at Unimelb.

4.4 Deployment and Customization

Ontoserver can be deployed locally, providing the flexibility to tailor the server to a specific use case. It can be deployed using Docker, enabling easy integration with existing virtual machines and making it a reusable component in a text analytics pipeline. Customization options include tuning the server to a specific dataset, enhancing performance, and adapting the server to support additional terminologies or features.

For technical documentation: <https://ontoserver.csiro.au/site/technical-documentation/ontoserver-technical-documentation/>

5 Security and Privacy in Healthcare Data

5.1 Data Protection and Compliance

When working with sensitive healthcare data, it is crucial to ensure that the platform adheres to strict data protection and privacy regulations such as HIPAA (Health Insurance Portability and Accountability Act) in the United States or GDPR (General Data Protection Regulation) in the European Union. These regulations are designed to protect patient's personal and medical information from unauthorized access and misuse.

5.2 Secure Data Storage and Transmission

To maintain the integrity and confidentiality of healthcare data, it is essential to implement robust security measures for data storage and transmission. This includes encrypting data at rest and in transit, using secure authentication methods, and regularly monitoring and auditing system activities. By incorporating best practices for data security, the platform can help protect sensitive information while still enabling valuable insights and analysis.

Project Scope

1 SNOMED CT knowledge base

- Understand the hierarchical structure, concepts, relationships, and terminology used in SNOMED CT.
- Learn how to query the SNOMED CT knowledge base and navigate its structure.
- Keep up to date with changes, updates, and new releases of the SNOMED CT knowledge base.

2 Ontoserver integration

- Research and select an appropriate Ontoserver implementation that fits your requirements.
- Set up and configure Ontoserver, including necessary hardware and software components.
- Understand and utilise the Ontoserver API for querying and integrating SNOMED CT data into your system.

3 Symptom to UIL mapping

- Develop or use existing algorithms and tools to accurately match symptom data to UIL terms.
- Handle possible ambiguities or variations in symptom descriptions.
- Develop a process for extracting and presenting disease names based on matched SNOMED CT terms.
- Allow user to download the mapping result.

4 Result curating and system improving

- Establish metrics for evaluating the mapping results.
- Conduct testing with real-world data and compare results against a gold standard or expert-reviewed data.
- Allow user to accurate the mapping result to continuously optimise the mapping tool to improve performance and address any identified issues.

5 User interface and experience

- Design a user-friendly web interface for entering symptom data and displaying terms of UIL

6 Documentation and training

- Create comprehensive documentation outlining the system's architecture, features, and API usage.
- Develop user guides, tutorials, or other training materials to assist users in understanding and utilising the system effectively.

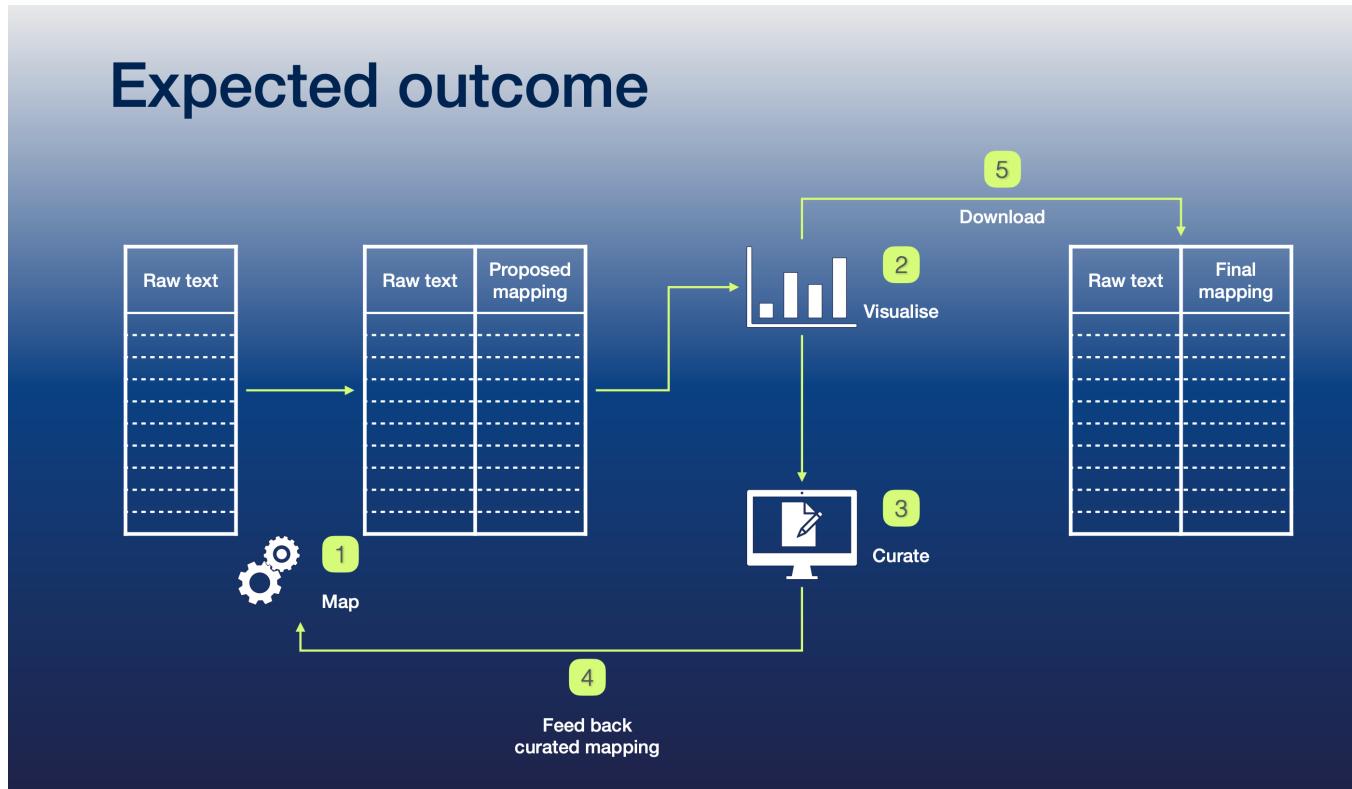
7 Project maintenance and updates

- Update the system as necessary to accommodate new versions or updates of the UIL and SNOMED CT knowledge base.

Functional Requirements

1 Expected Outcome

- The expected outcome of the system with five core functions are presented by client



2 Text Input and Processing

- The system must accept free-text clinical text input from medical researchers.
- The system must process and analyze the input text or file to identify relevant terms and phrases.

3 Mapping Terms to Categories

- The system must map identified terms to one or multiple categories based on a universal indication list.
- The system must allow users to review and adjust the selected category.

4 Integration with Mapping Tool

- The system must integrate with a mapping tool such as Ontoserver.
- The system must be able to send input text to the mapping tool and receive mapped categories and confidence levels.

5 Downloading Mapping Results

- The system must provide an option for users to download the mapping results.
- The system must generate a report containing history mapping and mapped categories for future reference.

6 Visualization

- The system must provide a user-friendly interface for curating.
- The system must display the mapping performance.

- The system must display the performance history of mapping.

7 Versioning

- The system must provide a user-friendly interface for the admin user to select the previous version to restore.
- The system should allow the admin user to view the restored version and the terms that were restored, to ensure that the correct version was rolled back.
- The system should also update the mapping history to reflect the rollback and the restored version.

8 User Authentication and Authorization

- The system must provide user authentication to ensure secure access to the mapping tool.
- The system must identify the user who curates the mapping results.
- The system may support role-based access control to manage user permissions and access to specific features.

Non-Functional Requirements

Version	Description	Date
2.0.0	1. Add more detail into security concern 2. Add QoS non functional requirements	25 Apr 2023
1.0.0	1. Basic non-functional requirements	23 Mar 2023

Version 2.0.0

1 QoS Non-Functional Requirements:

1.1 Responsiveness

- The platform should respond to user interactions within 2 seconds under normal load conditions, ensuring a smooth user experience.
- For computationally intensive tasks like mapping tasks, the platform should provide progress updates and complete tasks within a reasonable time frame.
- The platform should have a monitoring system to track performance metrics and detect any potential issues early.

1.2 Accuracy

- The system should incorporate advanced algorithms to increase the accuracy of mapping input data to categories and curating them.
- User curation should lead to further improvement in accuracy, with a target of 99% accuracy after multiple rounds of curation.

1.3 Scalability

- The system should be designed to handle a growing number of users, teams, and mapping tasks without significant performance degradation.
- The infrastructure should be easily expandable to accommodate the increasing workloads and storage needs.
- The platform should utilize cloud-based solutions to ensure flexibility in scaling up or down as needed.

1.4 Usability

- The user interface should be designed with a focus on ease of use, minimizing the learning curve for healthcare professionals and researchers.
- The system should provide clear instructions, tooltips, and context-sensitive help to guide users through complex tasks.
- The platform should offer customization options to accommodate the preferences and requirements of different user groups.

1.5 Security

As we embark on the development of our medication assessment system, it is essential to recognize the importance of addressing security concerns from the project's inception. Ensuring the confidentiality, integrity, and availability of sensitive medical data is critical to the success of our platform and the trust of our users. By thoroughly examining potential security risks and implementing appropriate countermeasures, we can establish a robust and secure foundation for our system, adhering to industry standards and regulatory requirements.

1.5.1 Authentication and authorisation

- Ensure that only authorized users have access to the system and its features by implementing robust authentication mechanisms (e.g., strong passwords, multi-factor authentication).
- Implement role-based access control to grant appropriate permissions to different user roles (e.g., researchers, administrators).

1.5.2 Secure APIs

- Ensure that any APIs are secure and follow best practices for authentication, data privacy, and data protection.

1.5.3 Data Protection and Privacy

- Safeguard sensitive data of patients and medical professionals, such as medical histories, diagnoses, and prescription information, in compliance with relevant privacy regulations (e.g., HIPAA, GDPR).
- Follow the principle of data minimization by collecting only the data needed for the project.

1.5.4 Secure Software Development Practices

- Implement security best practices throughout the development lifecycle, including code reviews, security testing, and vulnerability assessments

1.5.5 Backup and disaster recovery

- Establish regular backups and a disaster recovery plan to minimize data loss and system downtime in the event of a security incident or system failure.

2 Compliance Requirements (Standards):

2.1 Data Privacy Regulations

- The platform must implement robust access controls, data encryption, and secure data storage practices to comply with HIPAA or GDPR requirements.
- Regular security audits and vulnerability assessments should be conducted to identify and address potential threats.
- The platform should have a robust backup and recovery strategy to protect against data loss or corruption.

3 Architectural Constraints (SOA Principles):

3.1 Modularity

- The system should be divided into distinct modules (e.g., user management, mapping tasks, curation) that can be developed, tested, and deployed independently.

3.2 Reusability

- Common functionalities (e.g., authentication, logging, data validation) should be implemented as shared services or libraries that can be used across the system.
- APIs should be created to facilitate secure access and communication between different components and services.

3.3 Interoperability:

- The system should use standard data formats (e.g., JSON, XML) and communication protocols (e.g., REST, GraphQL) to facilitate integration with external systems and data sources.
- The system should support various data formats, such as CSV, JSON, and XML, to facilitate data import and export.

4 Development Constraints (Process):

4.1 Agile Development

- The project should follow an Agile development process, such as Scrum or Kanban, to support iterative development, continuous improvement, and adaptability to changing requirements.
- Regular feedback from stakeholders and users should be incorporated into the development process to ensure the platform meets their needs and expectations.

4.2 Continuous Integration & Deployment

- The development process should include automated build, test, and deployment pipelines to ensure consistent quality and faster delivery of new features and improvements.
- Code should be frequently merged into the main branch to minimize integration issues.

4.3 Code Quality

- The development team should follow coding best practices and conventions to maintain high-quality code.
- Test-driven development should be adopted to ensure comprehensive test coverage and reduce the likelihood of defects.
- Regular code reviews should be conducted to identify and address potential issues and improve the overall code quality.

4.4 Documentation

- The development team should provide clear and comprehensive documentation for the system, including technical specifications, user guides, and API documentation.
- Documentation should be regularly updated to reflect changes and improvements in the platform, ensuring that it remains a reliable source of information for stakeholders and users.

4.5 Version Control

- The development team should use a version control system (e.g., Git) to track code changes, manage branching and merging, and maintain a history of project development.

Version 1.0.0

Usability:

- The system must provide an intuitive and user-friendly interface for medical researchers.
- The system must include clear documentation, tooltips, and help resources for users to understand its mapping features and functionalities.

Performance:

- The system must process and map clinical text within a reasonable time frame to support efficient research workflows.
- The system should maintain its performance even when dealing with complex or large input data sets from diverse clinical sources in the future.

Scalability:

- The system should accommodate an increasing number of users and data without degrading performance.
- The system may be designed with a modular architecture to support future enhancements, such as integration with additional mapping tools or clinical databases.

Availability:

- The system must be highly available to minimize downtime and support user access at all times.
- The system must include monitoring and alerting mechanisms to detect and address potential issues.

Reliability:

- The system must ensure data integrity and consistency in processing and storing clinical text and mapping results.
- The system must provide error handling and recovery mechanisms to minimize disruptions in case of failures.

Security:

- The system must follow industry-standard security practices to protect sensitive data and user information.
- The system must undergo regular security audits and vulnerability assessments to identify and address potential risks.

Maintainability:

- The system must be easy to maintain, with well-organized code, documentation, and version control.
- The system must provide mechanisms for easy troubleshooting, bug fixes, and feature updates.

Compliance:

- The system must comply with all relevant industry standards, guidelines, and data privacy and security regulations.
- The system must maintain proper records and documentation to demonstrate compliance with regulatory requirements.

Motivational Model

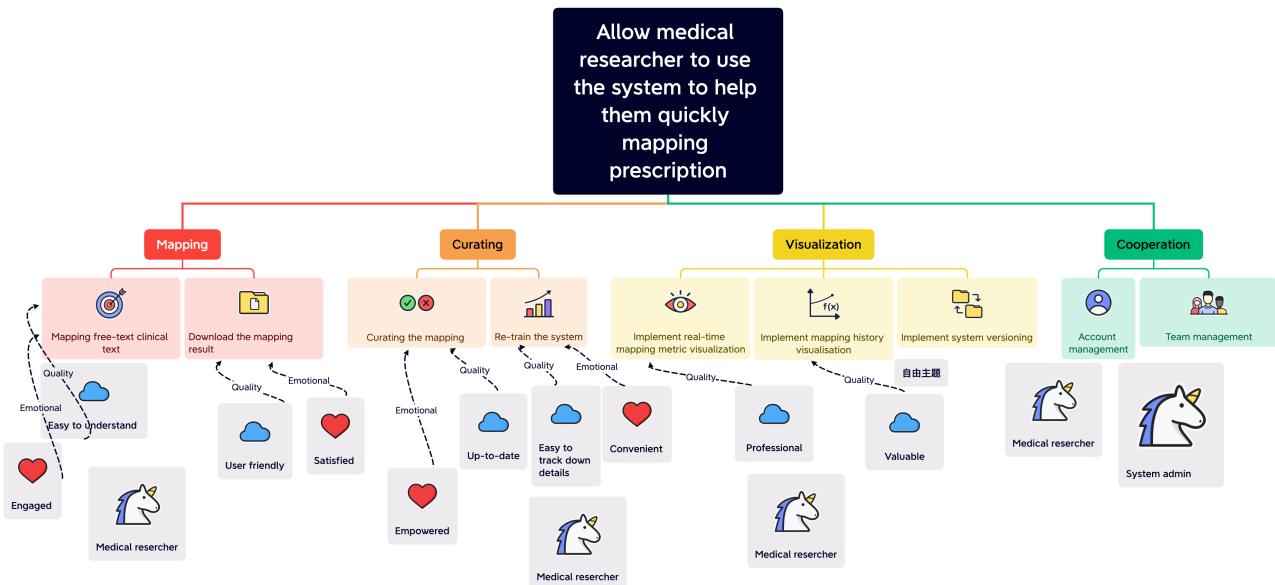
Version	Description	Date
2.0.0	1. Fix some tempo in goal model 2. Add Do-Be-Feel-Who list	23 Mar 2023
1.0.0	1. A basic goal model	15 Mar 2023

Version 2.0.0

Do-Be-Feel-Who List

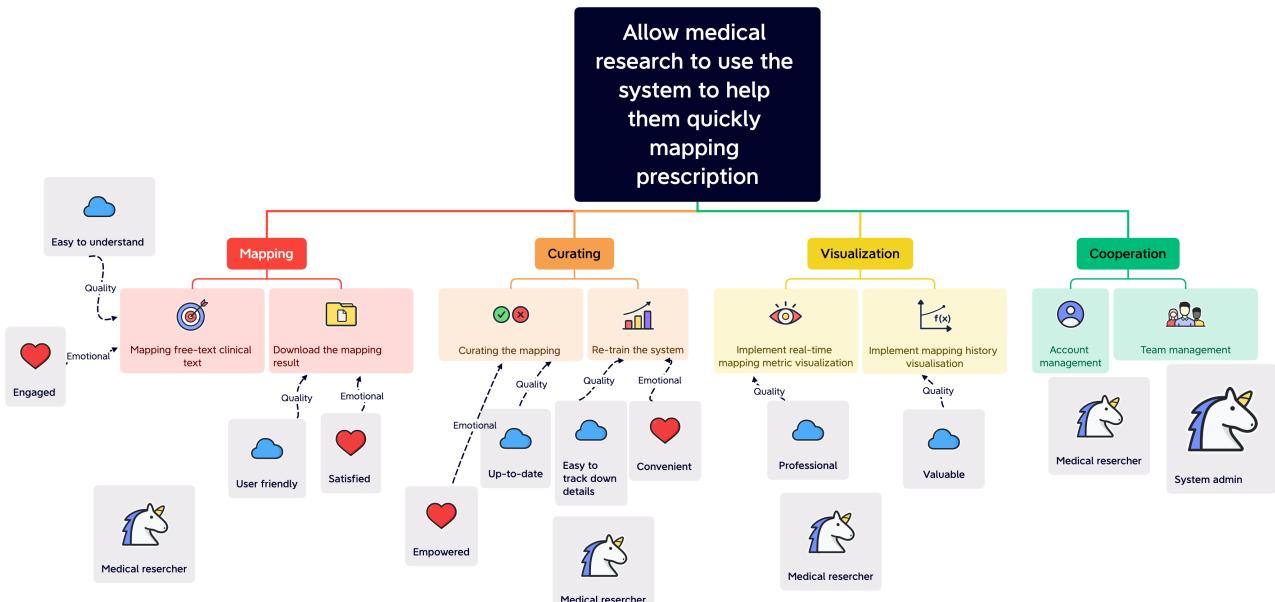
Do(Functional Goal)	Be (Quality Goal)	Feel(Emotional Goal)	Who(Roles)
Map the free-text clinical text	Easy to understand	Engaged	Medical researcher
Download the mapping results	User friendly	Satisfied	System Admin
Curate the incorrect mapping results	Up-to-date	Empowered	
Re-train the system use the curated data	Easy to track down details	Convenient	
Implement real-time mapping metric visualisation	Professional		
Implement mapping history visualisation	Mapping results should be valuable		
Implement system versioning			
Account management			
Team management			

Custom Goal Model



Presented with xmind

Version 1.0.0



Presented with xmind

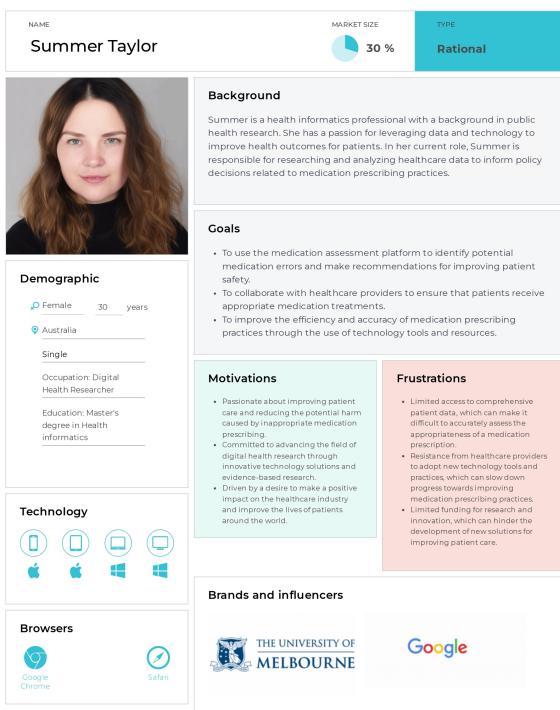
Personas

Versions

Version	Description	Date
2.0.0	1. Add persona analysis as justification for personas	23 Apr 2023
1.0.0	1. Three basic Personas for the sprint 1 submission	23 Mar 2023

Version 2.0.0

PROJECT: Digital Health PERSONA: Summer Taylor



The persona canvas for Summer Taylor includes the following sections:

- NAME:** Summer Taylor
- MARKET SIZE:** 30 %
- TYPE:** Rational
- Background:** Summer is a health informatics professional with a background in public health research. She has a passion for leveraging data and technology to improve health outcomes for patients. In her current role, Summer is responsible for researching and analyzing healthcare data to inform policy decisions related to medication prescribing practices.
- Demographic:**
 - Gender: Female, 30 years
 - Location: Australia
 - Status: Single
 - Occupation: Digital Health Researcher
 - Education: Master's degree in Health Informatics
- Goals:**
 - To use the medication assessment platform to identify potential medication errors and make recommendations for improving patient safety.
 - To collaborate with healthcare providers to ensure that patients receive appropriate medication treatments.
 - To improve the efficiency and accuracy of medication prescribing practices through the use of technology tools and resources.
- Motivations:**
 - Passionate about improving patient care and reducing the potential harm caused by inappropriate medication prescribing.
 - Committed to advancing the field of digital health research through innovative technology solutions and evidence-based research.
 - Driven by a desire to make a positive impact on the healthcare industry and improve the lives of patients around the world.
- Frustrations:**
 - Limited access to comprehensive patient data, which can make it difficult to accurately assess the appropriateness of a medication prescription.
 - Resistance from healthcare providers to adopt new technology tools and practices, which can slow down progress in improving medication prescribing practices.
 - Limited funding for research and innovation, which can hinder the development of new solutions for improving patient care.
- Brands and influencers:**
 - THE UNIVERSITY OF MELBOURNE
 - Google
- Technology:** Icons for various devices including smartphone, tablet, laptop, and desktop.
- Browsers:** Icons for Google Chrome and Safari.

Persona Analysis

Summer Taylor

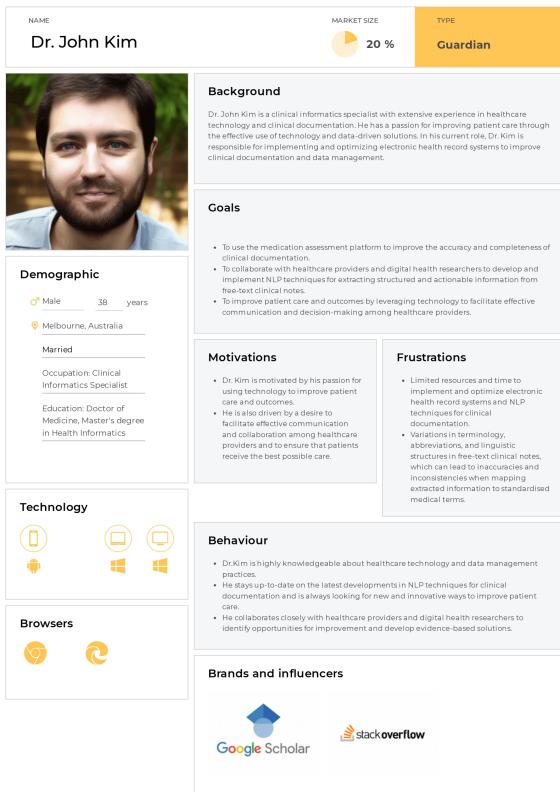
Summer's goals involve using the medication assessment platform to identify potential medication errors, collaborating with healthcare providers, and improving efficiency and accuracy in medication prescribing practices through technology. By focusing on these goals in the system design, the development team can create a tool that enhances patient safety, facilitates collaboration, and streamlines the medication prescribing process.

Summer's motivations, including passion for improving patient care, commitment to advancing digital health research, and a desire to make a positive impact on the healthcare industry, guide the development team in building a system that meets the needs of medical researchers and healthcare providers while driving innovation and enhancing patient care.

Addressing Summer's frustrations, the system design should prioritize providing comprehensive access to patient data, encouraging the adoption of technology tools among healthcare providers, and exploring ways to secure funding for research and innovation. By tackling these challenges, the development team can create a system that overcomes barriers to improved patient care and supports the advancement of the healthcare industry.

In summary, by considering Summer Taylor's goals, motivations, and frustrations, the development team can validate the system design and create a tool that meets the unique needs of medical researchers and healthcare providers, ultimately leading to better patient care and enhanced healthcare outcomes.

Persona Analysis



Dr. John Kim

By considering Dr. John Kim's goals, motivations, and frustrations, the development team can validate the system design and create a tool that caters to the needs of clinical informatics specialists, improving patient care and outcomes.

Dr. Kim's goals include using the medication assessment platform to enhance the accuracy and completeness of clinical documentation, collaborating with healthcare providers and digital health researchers to develop and implement NLP techniques, and leveraging technology to improve patient care and decision-making. By addressing these goals in the system design, the development team can create a tool that streamlines clinical documentation, fosters collaboration, and facilitates effective communication and decision-making among healthcare providers.

Dr. Kim's motivations, such as his passion for using technology to improve patient care and his desire to facilitate effective communication and collaboration among healthcare providers, guide the development team in creating a system that not only meets the needs of clinical informatics specialists but also promotes better patient care and outcomes.

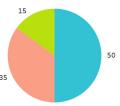
By addressing Dr. Kim's frustrations, the system design should prioritize optimizing electronic health record systems and NLP techniques, even with limited resources and time, and tackle variations in terminology, abbreviations, and linguistic structures to minimize inaccuracies and inconsistencies. By overcoming these challenges, the development team can create a system that supports clinical informatics specialists in their pursuit of improved patient care and enhanced healthcare outcomes.

In summary, by considering Dr. John Kim's goals, motivations, and frustrations, the development team can validate the system design and create a tool that meets the unique needs of clinical informatics specialists, ultimately leading to better patient care and improved healthcare outcomes.

Persona Analysis

Kelly Underwood

By considering Kelly Underwood's goals, motivations, and frustrations, the development team can validate the system design and create a tool that caters to the needs of PhD students in clinical medicine, ultimately helping them advance their research and improve patient care.

NAME Kelly Underwood	MARKET SIZE  15 %	TYPE Idealist								
	Background Kelly is a PhD student at Cambridge University, where she specializes in clinical medicine. Kelly's current research focuses on the accuracy of clinical medicine and the potential for future improvements. She needs a tool to provide data and improvement measures.									
Demographic  Female 27 years  United Kingdom Married Occupation: PhD student in Clinical Medicine Education: PhD in Clinical Medicine program in the University of Cambridge, Master's degree of Clinical Medicine in the University of Cambridge	Goals <ul style="list-style-type: none">Get data on the error rate of clinicians' prescriptions on our platformFind ways to reduce the error rate of prescriptionsObtain the above data to support her PhD project research	Motivations When she pursued her research in clinical medicine, she discovered that many doctors were prescribing the wrong medication to their patients. As a result, she wants a system that could assess whether medications were being prescribed appropriately to patients in order to understand why and fix the problem. Our system can help her with a lot of things. For example, it helps her to simply determine whether a prescription is appropriate or not. And, it can also help her see tabulated data about the prescription in some databases.								
Technology    	Frustrations Some physicians' notes are meaningless and cannot be valid data. It is troublesome to eliminate these data.	Chart  <table border="1"><thead><tr><th>Data Type</th><th>Percentage</th></tr></thead><tbody><tr><td>Valid data</td><td>50</td></tr><tr><td>Invalid data</td><td>35</td></tr><tr><td>Very valid data</td><td>15</td></tr></tbody></table>	Data Type	Percentage	Valid data	50	Invalid data	35	Very valid data	15
Data Type	Percentage									
Valid data	50									
Invalid data	35									
Very valid data	15									
Brands and influencers  UNIVERSITY OF CAMBRIDGE   Study at Cambridge About the University School of Clinical Medicine										
Browsers  										

Kelly's goals include obtaining data on the error rate of clinicians' prescriptions, finding ways to reduce prescription error rates, and using this data to support her PhD research project. By addressing these goals in the system design, the development team can create a tool that provides valuable insights into prescription error rates and assists in identifying potential solutions.

Kelly's motivations, such as her passion for understanding and addressing the issue of inappropriate medication prescribing, guide the development team in creating a system that meets her needs and supports her research efforts. By offering features that help her easily assess prescription appropriateness and access relevant data, the platform can significantly contribute to her research.

Addressing Kelly's frustrations, the system design should focus on filtering out meaningless physician notes and ensuring that the data used in her research is valid and reliable. By developing features that help identify and eliminate such data, the development team can create a system that streamlines Kelly's research process and enhances the quality of her findings.

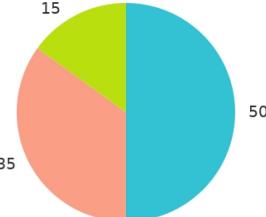
In summary, by considering Kelly Underwood's goals, motivations, and frustrations, the development team can validate the system design and create a tool that meets the unique needs of PhD students in clinical medicine, ultimately contributing to improved patient care and the advancement of clinical medicine research.

Version 1.0.0

NAME Summer Taylor	MARKET SIZE  30 %	TYPE Rational
	<p>Background</p> <p>Summer is a health informatics professional with a background in public health research. She has a passion for leveraging data and technology to improve health outcomes for patients. In her current role, Summer is responsible for researching and analyzing healthcare data to inform policy decisions related to medication prescribing practices.</p>	
Demographic	<p><input checked="" type="radio"/> Female 30 years</p> <p><input type="checkbox"/> Australia</p> <p>Single</p> <p>Occupation: Digital Health Researcher</p> <p>Education: Master's degree in Health informatics</p>	
Technology	<ul style="list-style-type: none">         	
Browsers	 Google Chrome  Safari	
	Motivations	Frustrations
	<ul style="list-style-type: none"> Passionate about improving patient care and reducing the potential harm caused by inappropriate medication prescribing. Committed to advancing the field of digital health research through innovative technology solutions and evidence-based research. Driven by a desire to make a positive impact on the healthcare industry and improve the lives of patients around the world. 	<ul style="list-style-type: none"> Limited access to comprehensive patient data, which can make it difficult to accurately assess the appropriateness of a medication prescription. Resistance from healthcare providers to adopt new technology tools and practices, which can slow down progress towards improving medication prescribing practices. Limited funding for research and innovation, which can hinder the development of new solutions for improving patient care.
	Brands and influencers	
	 	

NAME Dr. John Kim	MARKET SIZE 20 %	TYPE Guardian
	Background Dr. John Kim is a clinical informatics specialist with extensive experience in healthcare technology and clinical documentation. He has a passion for improving patient care through the effective use of technology and data-driven solutions. In his current role, Dr. Kim is responsible for implementing and optimizing electronic health record systems to improve clinical documentation and data management.	
Demographic Male 38 years Melbourne, Australia Married Occupation: Clinical Informatics Specialist Education: Doctor of Medicine, Master's degree in Health Informatics	Goals <ul style="list-style-type: none">To use the medication assessment platform to improve the accuracy and completeness of clinical documentation.To collaborate with healthcare providers and digital health researchers to develop and implement NLP techniques for extracting structured and actionable information from free-text clinical notes.To improve patient care and outcomes by leveraging technology to facilitate effective communication and decision-making among healthcare providers.	
Technology 	Motivations <ul style="list-style-type: none">Dr. Kim is motivated by his passion for using technology to improve patient care and outcomes.He is also driven by a desire to facilitate effective communication and collaboration among healthcare providers and to ensure that patients receive the best possible care.	Frustrations <ul style="list-style-type: none">Limited resources and time to implement and optimize electronic health record systems and NLP techniques for clinical documentation.Variations in terminology, abbreviations, and linguistic structures in free-text clinical notes, which can lead to inaccuracies and inconsistencies when mapping extracted information to standardised medical terms.
Browsers 	Behaviour <ul style="list-style-type: none">Dr. Kim is highly knowledgeable about healthcare technology and data management practices.He stays up-to-date on the latest developments in NLP techniques for clinical documentation and is always looking for new and innovative ways to improve patient care.He collaborates closely with healthcare providers and digital health researchers to identify opportunities for improvement and develop evidence-based solutions.	
	Brands and influencers 	



NAME Kelly Underwood	MARKET SIZE  15 %	TYPE Idealist						
	<h3>Background</h3> <p>Kelly is a PhD student at Cambridge University, where she specializes in clinical medicine. Kelly's current research focuses on the accuracy of clinical medicine and the potential for future improvements. She needs a tool to provide data and improvement measures.</p>							
<h3>Demographic</h3> <p> 📍 Female 27 years 📍 United Kingdom Married Occupation: PhD student in Clinical Medicine Education: PhD in Clinical Medicine program in the University of Cambridge, Master's degree of Clinical Medicine in the University of Cambridge </p>	<h3>Goals</h3> <ul style="list-style-type: none"> Get data on the error rate of clinicians' prescriptions on our platform Find ways to reduce the error rate of prescriptions Obtain the above data to support her PhD project research 	<h3>Motivations</h3> <p>When she pursued her research in clinical medicine, she discovered that many doctors were prescribing the wrong medication to their patients. As a result, she needed a platform that could assess whether medications were being prescribed appropriately to patients in order to understand why and fix the problem.</p> <p>Our platform can provide Kelly with a lot of help. For example, it helps her to simply determine whether a prescription is appropriate or not. And, it can also help her see tabulated data about the prescription in some databases.</p>						
<h3>Technology</h3> 	<h3>Frustrations</h3> <p>Some physicians' notes are meaningless and cannot be valid data. It is troublesome to eliminate these data.</p>							
<h3>Browsers</h3>	<h3>Chart</h3>  <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>Valid data</td> <td>50</td> </tr> <tr> <td>Invalid data</td> <td>35</td> </tr> <tr> <td>Very valid data</td> <td>15</td> </tr> </table>		Valid data	50	Invalid data	35	Very valid data	15
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Very valid data	15							
	<h3>Brands and influencers</h3>  UNIVERSITY OF CAMBRIDGE UNIVERSITY OF CAMBRIDGE Study at Cambridge About the University / School of Clinical Medicine School of Clinical Medicine							



User Stories and Acceptance Criteria

mapping taskNote: All of these user stories are not generated by ChatGPT.

Version ID	Description	Date
2.0.0	<ol style="list-style-type: none"> 1. Add ID to each user story 2. Split all user stories 3. Add specific priority 4. Add acceptance criteria 5. Add note to the each user story to explain the priority 6. Update some user stories with better descriptions 7. Change 'view other users' previous mapping task' into 'US0003: View mapping task history' under 'Epic 1 - Map free-text clinical text' which includes viewing tasks of their own and others in the team. 8. Delete 'filter the mapping history by date range' and 'filter the mapping history by user', instead keep them into decomposed tasks in US0003: View mapping task history 9. Merge "view the possible categories on each mapped item" and "see a list of category options while curating the data" into US0005: View Category Options for Mapped Items 10. Merge "re-train the system using the curated data" and 'curate the incorrect mapping results by correcting the data' into 'US0006: Curate Mapping Result' 11. According to new requirement, add "US0007: Update the Version of UIL" 	21 Apr 2023
1.0.0	Basic user stories with epic, stakeholders, size, priority and story point	23 Mar 2023

Version 2.0.0 - User Stories and Acceptance Criteria

Introduction

The user stories is listed as cards, with user story id, user story title, acceptance criteria, estimated story point, size estimation, priority rank, MoSCow priority, and a brief description about the priority.

User story card example

The following table provide an example about the user story which will be present in the following sections.

Note that the acceptance criteria is demonstrated in the Given-When-Then (GWT) format which is a structure used in Behavior-Driven Development (BDD) to describe and test software features. It consists of three parts: setting the context (Given), specifying the action or event (When), defining the expected outcome (Then) and additional description of the previous three parts (And). GWT helps ensure clear communication and shared understanding among team members.

<User story ID>: <User Story Title>	
User story	As <stakeholder> I want to <> So that <>
Acceptance criteria	Given <> AND...(optional) When <> AND...(optional) Then <> AND...(optional)
Story point	<Fibonacci story point: 0, 1, 2, 3, 5, 8, 13>
Size estimation	<User story size: S, M, L, XL>
Priority	<Priority rank: 1, 2, 3,, No. of user stories>
MoSCow Priority	One of (Could have, Should have, Must have)

Note	<Priority description>
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Epic 1 - Map free-text clinical text

US0001: Map short text into the terms of UIL(universal indication list)		US0002: Download the mapping result	US0003: View mapping task history
User story	<p>As a medical researcher</p> <p>I want to map the short text into certain or multiple categories in a universal indication list</p> <p>So that I do not need to map the text manually</p>	<p>User story</p> <p>As a medical researcher</p> <p>I want to download the mapping results</p> <p>So that I can save the mapping history and view it in the future</p>	<p>User story</p> <p>As a medical researcher</p> <p>I want to view my own and team members' previous mapping tasks</p> <p>So that I can review the mapping results and performance</p>
Acceptance criteria	<p>Given there is an input box or a file uploader on the mapping webpage</p> <p>When I access the mapping webpage as a medical researcher</p> <p>Then I should see a user-friendly interface that allows me to enter a short text or upload a file of short free text describing a symptom or indication, and a button or option to submit the text for mapping processing.</p>	<p>Acceptance criteria</p> <p>Given I am a medical researcher who has completed a mapping process on the webpage</p> <p>When I review the displayed mapping results, Then I should see a "Download" button or option on the webpage, And when I click the "Download" button or option</p> <p>Then the system should generate a downloadable file containing the mapping results</p> <p>And the file should be in a commonly used format, such as CSV or Excel, And the download process should initiate, allowing me to save the file to my local storage or device.</p>	<p>Acceptance criteria</p> <p>Given I am a medical researcher who wants to view the mapping history of myself and other team members</p> <p>When I am logged in and visit history section of the mapping tool's interface</p> <p>Then I should see a list of mapping tasks which I can review mapping history and performance</p> <p>And the option or button should be easy to locate and use.</p>
Story point	8	3	5
Size estimation	XL	S	L
Priority	1	2	7
MoSCoW Priority	Must have	Must have	Must have
Note	This is the core functionality of the system, which enables users to automate the mapping process, saving time and effort.	Providing users with the ability to download and save their mapping results helps them maintain a historical record and facilitates future reference.	Viewing previous tasks of own and others in the team fosters collaboration, knowledge sharing, and helps maintain quality standards.

Epic 2 - Curate the mapping and re-train the system

US0004: Identify Results Status in Mapping Process	US0005: View Category Options for Mapped Items	US0006: Curate Mapping Result
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User story	<p>As a medical researcher (curator)</p> <p>I want to easily identify the status of the mapping process for each raw text input</p> <p>So that I can quickly determine if further curation or review is needed</p>	<p>As a medical researcher (curator)</p> <p>I want to see a list of category options while curating the data</p> <p>So that I can choose the correct category for the incorrect mapping or unmapped items</p>	<p>As a medical researcher (curator)</p> <p>I want to review and curate the failed-mapping result or mapping results of raw text to SNOMED-CT into UIL</p> <p>So that I can have more accurate mapping result and give feedback to the system and improve it</p>
Acceptance criteria	<p>Given I am a medical researcher (curator) who has completed a mapping task</p> <p>When I review the displayed mapping results for different scenarios (e.g., no mapping, single or multiple mappings, previously curated mappings)</p> <p>Then I can see the relevant information (e.g., concept, similarity /confidence score, status)</p>	<p>Given I am a medical researcher (curator) who has completed a mapping process on the webpage</p> <p>When I review the displayed mapping results and identify an incorrect mapping or unmapped items</p> <p>Then I should see an option to view a list of category options for them, such as a dropdown menu, search bar, or button</p> <p>And when I interact with the option to view category options, Then the system should display a list of available categories from the universal indication list that I can choose from.</p>	<p>Given I am a medical researcher (curator) reviewing a failed-mapping result or successful mapping result on SNOMED-CT</p> <p>When I identify an appropriate mapping to a UIL concept</p> <p>Then I can manually curate the result using a drop-down menu with UIL entries and provide feedback to the system for improvement.</p>
Story point	5	3	5
Size estimation	M	M	M
Priority	3	4	5
MoSCoW Priority	Must have	Must have	Must have
Note	<p>By providing an easy-to-use interface for reviewing mapping results under various scenarios, medical data curators can quickly identify inaccuracies and make necessary corrections.</p>	<p>Providing category options during curation improves the user experience and facilitates more accurate mapping corrections.</p>	<p>Allowing users to curate data and provide feedback is essential for refining the system's performance and improving its mapping capabilities.</p>

US0007: Retrain the system from curating	
User story	<p>As a medical researcher (curator)</p> <p>I want to re-train the system using the curated data</p> <p>So that I can make the system have a better mapping performance in the future</p>

US0008: Update the Version of UIL	
User story	<p>As an admin user</p> <p>I want to update the UIL to the latest version</p> <p>So that I can access the most up-to-date term for curation</p>

A cc e pt a n ce cr it er ia	<p>Given the system has received curated data from one or more medical researchers (curators)</p> <p>When the system undergoes a re-training process</p> <p>Then it should incorporate the curated data into the re-training process to improve the mapping performance</p> <p>And the system should update its algorithms and knowledge base to better align with the curated data. And the improved mapping performance should be reflected in future mapping processes.</p>	A c c e p t a n c e c r i t e ria	<p>Given the system is running and the user has the necessary permissions, and the new UIL file is in a compatible format with the existing system</p> <p>When the user initiates the UIL update process, and the system verifies the integrity of the new UIL and ensures that it is not corrupted during the update process, and the system provides a backup option for the old UIL, and the system verifies the compatibility of the updated UIL</p> <p>Then the system should prompt the user to provide the new version of the UIL, display a confirmation message to the user indicating that the update process has been completed successfully</p>
St or y p oi nt	5	S t or y p o int	5
Si ze es ti m at ion	L	S iz e e s ti m a ti on	M
P r io rity	6	P ri o ri ty	8
M o S C o w Pr io rity	Must have	M o S C o w Pr i o ri ty	Must have
N ote	Continuously refining the system based on user feedback is key to ensuring it remains relevant and useful over time.	N o te	It is considered high-priority to make sure the user of the system access the most up-to-date information contained in the UIL they would like to identify for the mapping.

Epic 3 - Implement mapping metric visualization

US0009: Have a dashboard to display the mapping metrics

US0010: View the successful mapping rate and the number of mapped items

US0011: View the overall confidence

User story	<p>As a medical researcher</p> <p>I want to have a dashboard to display the mapping metrics for a mapping task</p> <p>So that I can review and analyze mapping results</p>	<p>Use r story</p> <p>I want to view the successful mapping rate and the number of mapped items in a dashboard</p> <p>So that I can assess the performance of the system on the current mapping task</p>	<p>Use r story</p> <p>I want to view the overall confidence in a dashboard</p> <p>So that I can assess the performance of the system on the current mapping task</p>
Acceptance criteria	<p>Given I am a medical researcher who wants to review and analyze mapping results</p> <p>When I review the mapping metric dashboard on the mapping result page</p> <p>Then I should see an button to display a metric dashboard</p> <p>And when I click the button to access the dashboard, then the dashboard should be displayed, showing the mapping metrics for current task.</p>	<p>Given I am a medical researcher who has accessed the dashboard on the mapping result page</p> <p>When I review the mapping metric dashboard</p> <p>Then I should see the successful mapping rate, represented as a percentage or ratio of successful mappings to total mappings</p> <p>And I should see the total number of mapped items, indicating the volume of data that has been processed</p>	<p>Given I am a medical researcher who has accessed the dashboard on the mapping result page</p> <p>When I review the mapping metric dashboard</p> <p>Then I should see the overall confidence, represented as an average or median confidence score across all successful mappings</p> <p>And the overall confidence should be displayed in a clear and understandable format, such as a text summary or graphical representation</p>
Story point	8	5	3
Size estimation	L	S	S
Priority	9	14	15
Must SCow Priority	Must have	Should have	Should have
Note	Offering metric analytics allows users to make informed decisions and monitor the system's performance.	Providing performance metrics enables users to evaluate the system's effectiveness and make informed decisions about its usage.	Providing an overall confidence metric helps users understand the system's performance and trust in the mapping results.

US0012: View the Specific Performance On Each Category	
User story	<p>As a medical researcher</p> <p>I want to view the specific performance of each category</p> <p>So that I can know the system performance among different categories</p>
Acceptance criteria	<p>Given I am a medical researcher who has accessed the mapping history</p> <p>When I review the displayed mapping results</p> <p>Then I should see specific performance metrics for each category, such as successful mapping rate, average confidence score, and number of mapped items</p>

US0013: View the Proportion of Each Category	
User story	<p>As a medical researcher</p> <p>I want to view the proportion of each category</p> <p>So that I can know the distribution of different categories</p>
Acceptance criteria	<p>Given I am a medical researcher who has accessed the mapping history</p> <p>When I review the displayed mapping results</p> <p>Then I should see the proportion of each category, represented as a percentage or ratio of mapped items within that category to the total number of mapped items</p>

Story point	5
Size estimation	M
Priority	16
MoSCow Priority	Could have
Note	Offering category-specific performance data helps users identify areas for improvement and make targeted adjustments.
Story point	5
Size estimation	S
Priority	17
MoSCow Priority	Could have
Note	Displaying category distribution information helps users identify trends and understand the data they are working with.

Epic 4 - Implement mapping history visualization

US0014: Visualize Mapping Performance History		US0015: Rollback to Earlier System Version	
User story	As a medical researcher I want to visualize the history of the mapping performance So that I can measure the mapping quality	User story	As an admin user I want to roll back to the earlier (default) version of the mapping system So that I can restore the default behaviour of the system
Acceptance criteria	Given I am a medical researcher who wants to visualize the history of the mapping performance When I access a dedicated section or page on the mapping tool's interface Then I should see a visual representation of the mapping performance over time, such as a line chart, bar chart, or other appropriate visualization.	Acceptance criteria	Given I am an admin user who wants to rollback to an earlier version (default) of the system When I access the mapping history performance page Then I should see the available version restore button And the version restoring should be easy to locate and use.
Story point		Story point	5
Size estimation	XL	Size estimation	M
Priority	11	Priority	12
MoSCow Priority	Must have	MoSCow Priority	Should have

Note	Visualizing the performance history allows users to track progress and identify trends over time.
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Note	Providing version rollback capabilities ensures admins can maintain system stability and performance in case of problematic updates.
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Epic 5 - Manage account

US0016: Account Login	
User story	As a medical researcher I want to log in to my account So that I can be identified by the system for curating.
Acceptance criteria	Given I am a medical researcher who wants to log in to my account When I visit the mapping tool's website or application Then I should see a login page or button allowing me to access the login interface And the login page or button should be easy to locate and use.
Story point	3
Size estimation	S
Priority	10
MoSCow Priority	Must have
Note	User authentication ensures a secure environment and allows for personalized experiences.

US0017: Edit Personal Information	
User story	As a medical researcher I want to edit my personal information So that I can update my roles and responsibilities.
Acceptance criteria	Given I am a medical researcher who wants to edit my personal information When I am logged in to my account and visit the user profile or settings section of the mapping tool's interface Then I should see an option or button to edit my personal information And the option or button should be easy to locate and use.
Story point	2
Size estimation	S
Priority	18
MoSCow Priority	Could have
Note	Allowing users to edit their personal information helps maintain up-to-date user profiles and improves collaboration.

US0018: Add New User Account	
User story	As an admin user I want to add an account to the system So that I can give other people access to the system.
Acceptance criteria	Given I am a medical researcher who wants to add an account to the system And I have the necessary permissions to manage user accounts When I visit the account management section or page on the mapping tool's interface Then I should see an option or button to add a new account And the option or button should be easy to locate and use.
Story point	5
Size estimation	M
Priority	13
MoSCow Priority	Should have
Note	Adding new accounts enables collaboration and helps scale the system to accommodate more users.

Epic 6 - Manage team

US0019: Add Member to Team	
User story	As an admin user I want to add the account to a team So that I can let people on the same team work together.

US0020: Remove Member from Team	
User story	As an admin user I want to delete a member from a team So that I can remove a member's privileges in a team

Access criteria	<p>Given I am a medical researcher who wants to add an account to a team</p> <p>And I have the necessary permissions to manage team membership</p> <p>When I visit the team management section or page on the mapping tool's interface</p> <p>Then I should see an option or button to add a new member to the team</p>	Access criteria	<p>Given I am a medical researcher who wants to delete a member from a team</p> <p>And I have the necessary permissions to manage team membership</p> <p>When I visit the team management section or page on the mapping tool's interface</p> <p>Then I should see an option or button to remove an existing member from the team</p> <p>And the option or button should be easy to locate and use.</p>
Story point	1	Story point	1
Size estimation	S	Size estimation	S
Priority	19	Priority	20
MoSCow Priority	Could have	MoSCow Priority	Could have
Note	Team-based collaboration features help organize users and facilitate more efficient collaboration.	Note	Enabling user management within teams ensures proper access control and maintains the integrity of the system.

Version 1.0.0 - User Story

Epic	As a	I want to	So That	Size Estimation	MoSCow Priority	Story point
Map free-text clinical text	medical researcher	map the short text into certain or multiple categories in a universal indication list	I do not need to map the text manually.	L	must have	5
		download the mapping results	I can save the mapping history and view it in the future.	S	should have	3
		view the possible categories on each mapped item	I can make decisions about the most appropriate category for the term.	M	must have	5
Curate the mapping and re-train the system	medical researcher (curator)	identify the unrecognized result	I can ensure that the mapping result is accurate and complete.	M	must have	5
		filter the possible incorrect mapping result by the confidence range	I can judge the possible incorrect mappings by myself.	M	must have	8
		curate the incorrect mapping results by correcting the data	I can give feedback to the system and retrain it.	M	must have	3
		see a list of category options while curating the data	I can choose the correct category for the incorrect mapping.	S	should have	1
		re-train the system using the curated data	I can make the system have a better mapping performance in the future.	L	must have	5
		test the updated system	I can ensure that the mapping is improved.	M	could have	5
Implement real-time mapping metric visualization	medical researcher	have a real-time dashboard to display the mapping metrics	I can review and analyze mapping results.	L	must have	8

		view the successful mapping rate and number of mapped items	I can assess the performance of the mapping tool accurately.	S	should have	5
		view the overall confidence	I can know the performance of the system.	S	should have	3
		view the specific performance of each category	I can know the system performance among different categories.	M	could have	5
		view the proportion of each category	I can know the distribution of different categories.	S	could have	5
Implement mapping history visualization	medical researcher	visualize the history of the mapping performance	I can measure the mapping quality	XL	must have	8
		filter the mapping history by date range	I can quickly find the mapping history	S	could have	1
		filter the mapping history by user	I can quickly find the mapping history of a specific team member	S	could have	1
	admin user	rollback to earlier version	I can choose the system version with better performance	M	could have	5
Manage account	medical researcher	login to my account	I can be identified by the system for curating.	S	must have	3
		edit my personal information	I can update my roles and responsibilities.	S	could have	2
	admin user	add an account to the system	I can give other people access to the system.	S	should have	1
Manage team	medical researcher	view other users' previous mapping task	I can check their mapping results and performance.	M	should have	3
		add the account to a team	I can let people on the same team work together.	S	could have	1
	admin user	delete a member from a team	I can remove a member's privileges in a team.	S	could have	1

Use Cases

Version	Description	Date
2.0.0	1. Based on the MRFF NCAS mapping tool requirements provided by Vlada on April 27, 2023.	24 Apr 2023
1.0.0	1. Basic use cases	23 Mar 2023

Version 2.0.0

Use Case 1: Map Free-Text clinical text to UIL category if no SNOMED CT concepts are mapped

Rationale:

A medical researcher wants to map the short clinical text into a universal indication category, automating the process and reducing manual effort for their research.

Preconditions:

1. User has available account.
2. A universal indication list is available and integrated with the system.
3. A tool to map raw text into SNOMED CT concept is available and integrated with the system.

Steps:

1. The user inputs the clinical text or upload a file with multiple clinical text into the system, and there will be three cases
 - a. The map tool match the clinical text into SNOMED CT concepts, but no concepts are matched.
 - i. Output of the mapping tool:
 1. Matched term: NULL
 2. Score: NULL
 3. Status: Fail
 4. Source: NULL
 - b. The map tool match the clinical text into SNOMED CT concepts, and there is only one concept is matched.
 - i. Output of the mapping tool:
 1. Matched term: if the SNOMED CT concept ID is in UIL, then set term to *UIL category*, otherwise, set source to *SNOME D-CT concept*
 2. Score: <confidence score>
 3. Status: <Success>
 4. Source: if the SNOMED CT concept ID is in UIL, then set source to *UIL*, otherwise, set source to *SNOMED-CT*
 - c. The map tool match the clinical text into SNOMED CT concepts, and there are multiple concepts are matched.
 - i. Select the SNOMED CT concept with the highest score.
 - ii. Output of the mapping tool:
 1. Matched term: if the SNOMED CT concept ID is in UIL, then set term to *UIL category*, otherwise, set source to *SNOME D-CT concept*
 2. Score: <confidence score>
 3. Status: <Success>
 4. Source: if the SNOMED CT concept ID is in UIL, then set source to *UIL*, otherwise, set source to *SNOMED-CT*

Use Case 2: Curate the mapping result into UIL category

Rationale

Based on the use case 1, the mapping system may incorrectly classify the clinical text into wrong UIL category(even only classified into SNOMED CT concept but no UIL category), so the mechanism is designed to provide a way for the user to review and curate the unrecognised and possible incorrect mappings so that the system can learn from mapping result and improve its accuracy over time.

Preconditions

1. User has available account.
2. The system has successfully process a map task and generate a set of preliminary mappings.

Steps

1. The user successfully login
2. The user click into the map task to view its details.
3. The module displays the text that was mapped, along with the mapping term(could be none), confidence score(could be none), status(reviewed /success/fail), and source(SNOMED-CT/UIL)
4. The user can select any clinical text(no matter what ststatus: mapped success, reviewed, or fail) to change its mapped term into other UIL category from a dropdown menu
5. Then the status will change to reviewed.
6. When the user is finished reviewing and curating the mappings, they can submit their changes to the system, or they can save it to continue review next time.

Postconditions

1. The system uses the curated data to retrain its model, in order to improve the accuracy of future mappings.

Use Case 3: Visualise the history of the mapping performance

Rationale:

This is one of the key functional requirements of the project. Medical researchers need the system to show the historical mapping performance so that they can measure if the system is improving its accuracy.

Preconditions:

1. User has available account.
2. The system have the mapping short text into terms implemented
3. The user has at least one mapping result
4. (Optional)The system can be retrained by curating the mapping results manually.

Steps:

1. The user successfully login
2. The user clicks the mapping history button on the side navigation bar

Alternative Paths:

- If the user has no mapping result before, the page will show empty
- If the user does not have permission to watch the mapping history, then the user cannot see the performance

Postconditions:

- The user can see the overall training time
- The user can see the current curate rate and mapping failure rate
- The user can see the performance change over time

Use Case 4: Filter the mapping history/task by user and date range

Rationale:

This is a simple filter use case that allows the user to retrieve the mapping task of a specific person so that the team members.

Preconditions:

1. User has available account.
2. The user is in a workspace
3. The user has access to see other user's mapping
4. Other user has mapping result

Steps:

1. The user successfully login
2. User clicks the page go to the mapping tasks, so the user can see a list of mapping task
3. The user can filter those mapping task by selecting the date and users

Alternative Paths:

- If the workspace does not have any mapping history, the mapping history page will be a blank page

Postconditions:

- The user can filter the mapping history in the order of date
- The user can filter the mapping history of specific users

Use Case 5: A medical research wants to view team members mapping tasks.

Rationale:

A medical researcher wants to view team members mapping tasks so that they can help each other to curate the mapping.

Preconditions:

1. User has available account.
2. User is in a workspace
3. The username and password entered are accurate and matched.
4. Other team members have mapping history.

Step:

1. The user successfully login
2. The system prompts the user to log in successfully and jumps to the main page.
3. The user can view all members' mapping task in workspace mapping task page.

Alternative Path:

1. If there are no mapping tasks for other users, the system will display an empty screen.

Postconditions:

- After the user has viewed other users' previous mapping tasks, the user can make corrections to other users' mapping results.

Use Case 6: Perform account profile edit

Rationale:

A medical researcher wants to edit personal information

Preconditions:

1. User has available account.
2. The username and password entered are accurate and matched.
3. The system holds the user's personal information.

Steps:

1. The user successfully login
2. The system prompts the user to log in successfully and jumps to the main page.
3. The user enters the profile page.
4. The system displays the user's personal information.
5. The user modifies personal information and submits it.

Alternative Paths:

1. If the user enters an incorrect or mismatched username and password, the system will ask the user to re-enter it.
2. If the user's modified personal information does not match the rules, the system will ask the user to re-enter it.

Postconditions:

- After the user has viewed other users' previous mapping tasks, the user can make corrections to other users' mapping results.

Use Case 7: Adding team member to workspace by admin

Rationale:

An admin user wants to add an account to the current workspace, as also deleting a member from a workspace.

Preconditions:

1. User has available account.
2. The system shows that the admin user has logged in successfully.
3. The system provides functions for the workspace.

Steps:

1. The user successfully login
2. The admin user clicks the add user button in the workspace to invite member.
3. The admin user enters the user's email and submits it, and the user's status shows *Pending*.
4. The system send a invitation email to the email with a invitation link.
5. The invited user click the invitation link in email, and then the invited user will be redirected to a page to sign up with personal information.
6. By clicking the submit button on sign up page, the invited person will be invited to the workspace.
7. The invited person status will shows *Active*.

Postconditions:

- A user will be invited to the workspace

Use Case 8: Admin can allow the system to restore the default behaviour of the mapping tool

Rationale:

The medical researchers wants to restore the default behaviour of the mapping tool, but this operation should only be done by admin account.

Preconditions:

1. User has available account.

Steps:

1. The admin successfully login
2. The admin user create a new workspace.

Postcondition:

The admin user successfully restore a default version of the mapping tool, and can switch back to previous version anytime.

Use Case 9: Download mapping result

Rationale:

The medical researchers wants to download the mapping result from a mapping tasks.

Preconditions:

1. User has available account.
2. The workspace of the user has a successfully mapped task.

Steps:

1. The user successfully login.
2. The user go to the mapping task page.
3. The user click any successfully mapped task to go to the task detail.
4. The user click download button to download result.

Postcondition:

The user will receive an excel file with mapping result will be downloaded.

Version 1.0.0

Use Case 1: Map Free-Text Clinical Text to Categories

Rationale:

A medical researcher wants to map the short clinical text into certain or multiple categories in a universal indication list, automating the process and reducing manual effort.

Preconditions:

1. The user has access to the clinical text mapping system.
2. A universal indication list is available and integrated with the system.
3. The clinical text to be mapped is provided in a suitable format.

Steps:

1. The user inputs the free-text clinical text into the system.
2. The system processes the text and identifies possible categories from the universal indication list.
3. The system presents the suggested categories to the user.
4. The system maps the clinical text to the selected categories.
5. The user has the option to download the mapping results to save the mapping history and view it in the future.
6. The user can view the possible categories for each mapped item, allowing them to make decisions about the most appropriate category for the term.

Alternative Paths:

1. If the system is unable to suggest appropriate categories, the user can manually search for and select categories from the universal indication list.
2. If the user needs to review or change the mapped categories later, they can access the mapping history and make updates.

Postcondition:

The clinical text is successfully mapped to one or multiple categories in the universal indication list, and the user can download the results and view possible categories for each mapped item.

Use Case 2: Curate the Mapping Results

Rationale

The purpose of this module is to provide a mechanism for the user to correct any misclassifications made by the system when mapping free-text clinical data to different categories. The module is designed to provide a way for the user to review and curate the unrecognized and possible incorrect mappings so that the system can learn from this feedback and improve its accuracy over time.

Preconditions

1. The user has access to the clinical text that needs to be mapped.
2. The system has already processed the clinical text and generated a set of preliminary mappings.
3. The system has identified at least one original text that fails to be mapped to a certain category or the user has identified at least one mapping that they believe to be incorrect.

Steps

1. The module displays a list of the mappings that the users believe to be incorrect by filtering the confidence range or the mapping status.
2. The module displays the text that was mapped, along with the current mapping and the confidence score for that mapping.
3. The user can review the text and the current mapping, and can then choose to either correct the mapping or leave it unchanged.
4. If the user chooses to correct the mapping, the module displays a list of categories that the text could be mapped to.
5. The user selects the correct category from the list, and the module updates the mapping accordingly.
6. The user can repeat steps 2-7 for any other mappings that they believe to be incorrect.
7. When the user is finished reviewing and curating the mappings, they can submit their changes to the system.
8. The system uses the curated data to retrain its model, in order to improve the accuracy of future mappings.

Alternative Paths

1. If the user does not identify any mappings that they believe to be incorrect, they can simply close the module without making any changes.
2. If the user encounters any technical issues or errors while using the module, they can contact technical support for assistance.

Postconditions

1. The mappings have been reviewed and curated by the user, with any incorrect mappings corrected and any missing mappings added.
2. The curated data has been submitted to the system for retraining the mapping model.
3. The system has been improved with the curated data, leading to increased accuracy in future mappings.

Use Case 3: Real-Time Dashboard for Clinical Text Mapping Metrics

Rationale:

The real-time dashboard module is designed to provide stakeholders with a visual representation of the mapping performance in real time. It allows users to monitor the accuracy and efficiency of the mapping process, and make any necessary adjustments to improve the system's performance.

Preconditions:

- The clinical text mapping system is up and running.
- The real-time dashboard module is installed and connected to the mapping system.
- There is a database containing the mapping metrics data.

Steps:

1. Open the real-time dashboard module and log in.
2. The dashboard displays the overall mapping metrics, including the successful mapping rate and the number of mapped items.
3. The dashboard also displays the overall confidence level of the system in mapping the text.
4. Users can click on a specific category to view the performance of the mapping tool for that category.
5. The dashboard displays the proportion of each category in the mapped items.
6. Users can apply filters to view the mapping history by user or date range.
7. If the mapping performance is unsatisfactory, users can click on the specific category to view the individual items that were mapped incorrectly.
8. Users can manually correct the mapping for any incorrect items and update the mapping system with the new data.
9. The mapping system will re-train the machine learning model based on the corrected mapping data.
10. The user can download the mapping metrics data for further analysis.

Alternative Paths:

- If the mapping system is not running or the real-time dashboard module is not connected, an error message will be displayed.
- If the user does not have the necessary permissions, they will not be able to access the real-time dashboard module.
- If there are no incorrectly mapped items, the correction step (steps 7 and 8) will not be necessary.

Postconditions:

- The real-time dashboard module displays the mapping metrics data, allowing users to monitor the accuracy and efficiency of the mapping system.
- Users can manually correct any incorrectly mapped items, and feed them back into the system to improve the accuracy of the mapping tool.
- The mapping system re-trains the machine learning model based on the corrected mapping data.
- The mapping metrics data can be downloaded for further analysis.

Use Case 4: Visualise the history of the mapping performance

Rationale:

This is one of the key functional requirements of the project. Medical researchers need the system to show the historical mapping performance so that they can measure if the system is improving its accuracy.

Preconditions:

- Medical researchers have accounts of the system
- The system have the mapping short text into terms implemented
- The user has at least one mapping result
- (Optional)The system can be retrained by curating the mapping results manually.

Steps:

1. The user successfully logs in the system
2. The user clicks the mapping history button on the side navigation bar

Alternative Paths:

- If the user has no mapping result before, the page will show empty
- If the user does not have permission to watch the mapping history, then the user cannot see the performance

Postconditions:

- The user can see the overall training time
- The user can see the current curate rate and mapping failure rate
- The user can see the performance change over time

Use Case 5: Filter the mapping history by user and date range

Rationale:

This is a simple filter use case that allows the user to retrieve the mapping history of a specific person so that the team members can follow up with other team members' mapping

Preconditions:

- The User successfully login
- The user is in a team
- The user has access to see other user's mapping
- Other user has mapping result

Steps:

1. User login
2. User clicks the mapping history button on the side navigation bar, so the user can see a list of mapping history
3. The list shows the latest mapping history on the top
4. The user can filter those mapping histories by selecting the date and other users

Alternative Paths:

- If the team does not have any mapping history, the mapping history page will be a blank page
- If the user does not allow to see the mapping history, then the user cannot see any mapping history

Postconditions:

- The user can filter the mapping history in the order of date
- The user can filter the mapping history of specific users

Use Case 6: Perform account operations for a medical researcher

Rationale:

A medical researcher wants to log in to the account, edit personal information, and then view other users' previous mapping tasks.

Preconditions:

1. Users have available accounts.
2. The username and password entered are accurate and matched.
3. The system holds the user's personal information.
4. Other users have mapping history.

Steps:

1. The user enters the login interface of the system.
2. The user enters a username and password.
3. The user clicks the login button.
4. The system prompts the user to log in successfully and jumps to the main interface.
5. The user enters the account interface.
6. The system displays the user's personal information.
7. The user modifies personal information and submits it.
8. The user enters the History Stats screen.
9. The system displays other users' previous mapping tasks.

Alternative Paths:

1. If the user enters an incorrect or mismatched username and password, the system will ask the user to re-enter it.
2. If the user's modified personal information does not match the rules, the system will ask the user to re-enter it.
3. If there are no mapping tasks for other users, the system will display an empty screen.

Postconditions:

- After the user has viewed other users' previous mapping tasks, the user can make corrections to other users' mapping results.

Use Case 7: Perform account operations for an Admin User

Rationale:

An admin user wants to add an account to the system, add the account to a team, and then delete a member from a team.

Preconditions:

1. The admin user enters the correct and matching username and password on the login screen.
2. The system shows that the admin user has logged in successfully.
3. The system provides functions for the team.

Steps:

1. The admin user clicks the Create User button.
2. The system displays the Create User interface.
3. The admin user enters the user's information and submits it.
4. The system shows that the user has been created successfully.
5. The admin user enters the user interface of the created user.
6. The admin user adds the user to a team.
7. The system displays that the user joined the team successfully.
8. The admin user enters the team interface and selects a user.
9. The admin user clicks the Remove User button.
10. The system shows that the user was successfully removed from the team.

Alternative Paths:

1. If the user information entered does not match the rules, the admin user needs to re-enter the information.
2. If the user wants to join a team that does not exist, the admin user needs to create a team first.
3. If the team that the user wants to join is full, the user will not be able to join.

Postconditions:

- Users on the same team will be able to start collaborating on mapping.

Use Case 8: Admin Rollback Version of Mapped Categories

Rationale:

The admin user wants to rollback the versioning of mapped categories to a previous version in case of errors or inconsistencies in the current mapping.

Preconditions:

1. The admin user has access to the clinical text mapping system.
2. The mapping system has previous versions of the mapped categories available.

Steps:

1. The admin user logs into the mapping system.
2. The admin user accesses the mapping history and identifies the previous version of the mapped categories that they wish to restore.
3. The admin user selects the previous version to restore.
4. The system restores the selected version and replaces the current mapping with the restored version.
5. The system updates the mapping history to reflect the rollback and the restored version.

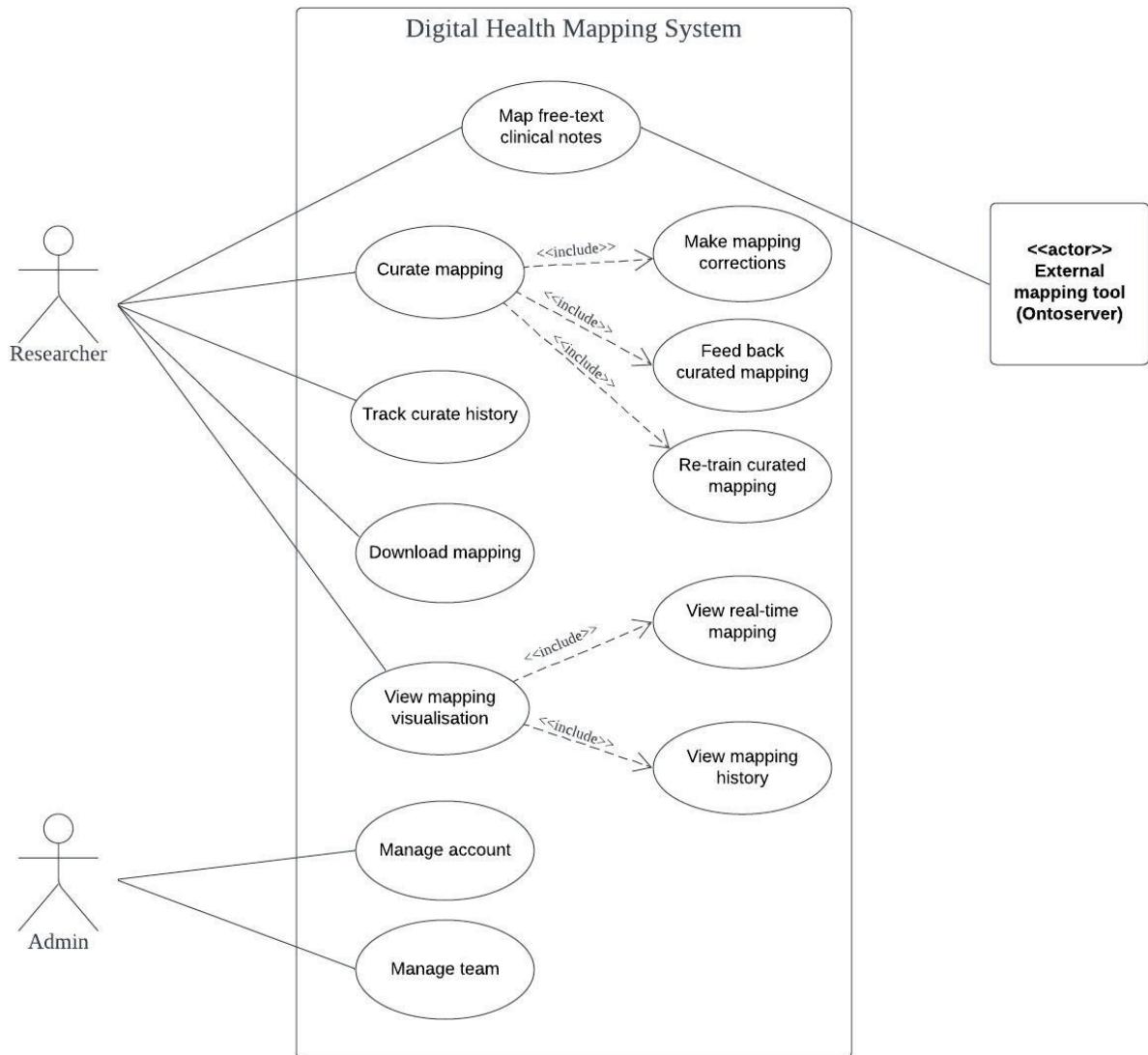
Alternative Paths:

1. If the admin user is unsure about which version to restore, they can preview the previous versions and their mapping results before selecting one to restore.
2. If the admin user encounters errors or inconsistencies in the restored version, they can repeat the rollback process and select a different version to restore.

Postcondition:

The admin user successfully rolls back the version of mapped categories to a previous version in the mapping system, and the system updates the mapping history to reflect the rollback and the restored version.

Overall Use Case Diagram



Product Backlog

Version ID	Description	Date
2.0.0	1. Add table to clearly show the product backlog 2. Align with user stories modified by new requirements	21 Apr 2023
1.0.0	Basic product backlog using user story map framework	23 Mar 2023

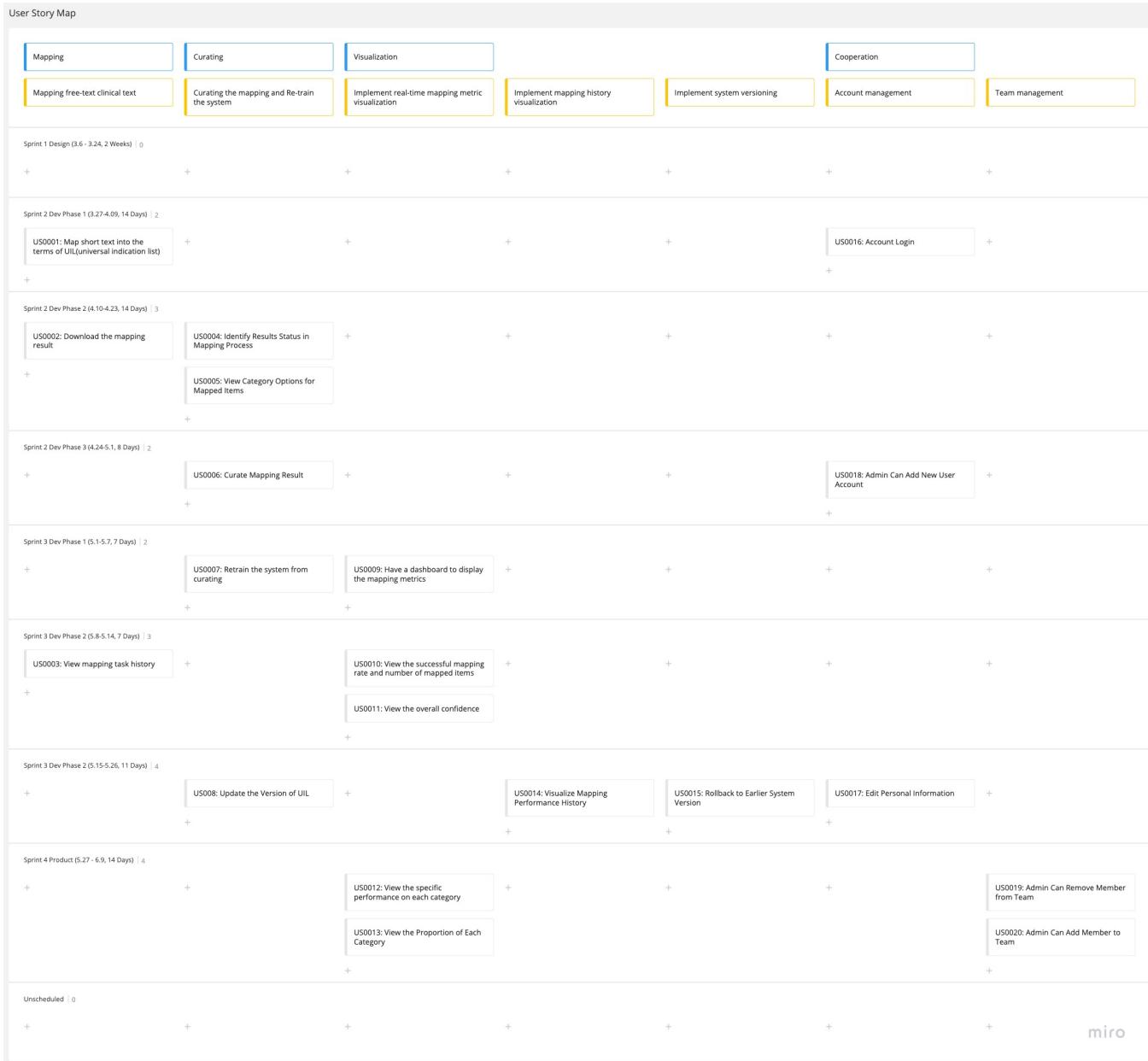
Version 2.0.0

Table View

Epic	Feature	StoryID	Priority	User	Story/Scenario	Estimate	MoSCoW Priority	Story Point
Epic 1 - Map free-text clinical text	Map short text into the terms of UIL(universal indication list)	US0001	1	Medical Researcher	As a medical researcher I want to map the short text into certain or multiple categories in a universal indication list So that I do not need to map the text manually	XL	Must Have	8
	Download Mapping Results	US0002	2	Medical Researcher	As a medical researcher I want to download the mapping results So that I can save the mapping history and view it in the future	S	Must Have	3
	View mapping task history	US0003	7	Medical Researcher	As a medical researcher I want to view my own and team members' previous mapping task So that I can review the mapping results and performance	L	Must	5
Epic 2 - Curate the mapping and re-train the system	Identify Results Status in Mapping Process	US0004	3	Medical Researcher (Curator)	As a medical researcher (curator) I want to easily identify the status of the mapping process for each raw text input So that I can quickly determine if further curation or review is needed	M	Must Have	5
	View Category Options for Mapped Items	US0005	4	Medical Researcher (Curator)	As a medical researcher (curator) I want to see a list of category options while curating the data So that I can choose the correct category for the incorrect mapping or unmapped items	M	Must Have	3
	Curate Mapping Result	US0006	5	Medical Researcher (Curator)	As a medical researcher (curator) I want to review and curate the failed-mapping result or mapping results of raw text to SNOMED-CT into UIL So that I can give feedback to the system and improve it	M	Must Have	5
	Retrain the system from curating	US0007	6	Medical Researcher (Curator)	As a medical researcher (curator) I want to re-train the system using the curated data So that I can make the system have a better mapping performance in the future	L	Must Have	5
	Update the Version of UIL	US0008	8	Admin user	As an admin user I want to update the UIL to the latest version So that I can access the most up-to-date term for curation	M	Must have	5

Epic 3 - Implement mapping metric visualization	Have a dashboard to display the mapping metrics	US0009	9	Medical Researcher	As a medical researcher I want to have a dashboard to display the mapping metrics for a mapping task So that I can review and analyze mapping results	L	Must Have	8
	View the successful mapping rate and number of mapped items	US0010	14	Medical Researcher	As a medical researcher I want to view the successful mapping rate and number of mapped items in a dashboard So that I can assess the performance of the system on current mapping task	S	Should Have	5
	View Overall Confidence	US0011	15	Medical Researcher	As a medical researcher (curator) I want to view the overall confidence in a dashboard So that I can assess the performance of the system on current mapping task	S	Should Have	3
	View Specific Performance of Each Category	US0012	16	Medical Researcher	As a medical researcher I want to view the specific performance of each category So that I can know the system performance among different categories	M	Could Have	5
	View Proportion of Each Category	US0013	17	Medical Researcher	As a medical researcher I want to view the proportion of each category So that I can know the distribution of different categories	S	Could Have	5
Epic 3 - Implement mapping history visualization	Visualize Mapping Performance History	US0014	11	Medical Researcher	As a medical researcher I want to visualize the history of the mapping performance So that I can measure the mapping quality	XL	Should Have	8
	Rollback to Earlier System Version	US0015	12	Admin User	As a admin user I want to rollback to earlier (default) version of the mapping system So that I can restore the default behaviour of the system	M	Should Have	5
Epic 4 - Manage account	Account Login	US0016	10	Medical Researcher	As a medical researcher I want to login my account So that I can be identified by the system for curating.	S	Must Have	3
	Edit Personal Information	US0017	18	Medical Researcher	As a medical researcher I want to edit my personal information So that I can update my roles and responsibilities.	S	Could Have	2
	Add New User Account	US0018	13	Admin User	As a medical researcher I want to add an account to the system So that I can give other people access to the system.	M	Should Have	5
Epic 5 - Manage team	Add Member to Team	US0019	19	Admin User	As a medical researcher I want to add the account to a team So that I can let people on the same team work together.	S	Could Have	1
	Delete Member from Team	US0021	20	Admin User	As a medical researcher I want to delete a member from a team So that I can remove a member's privileges in a team	S	Could Have	1

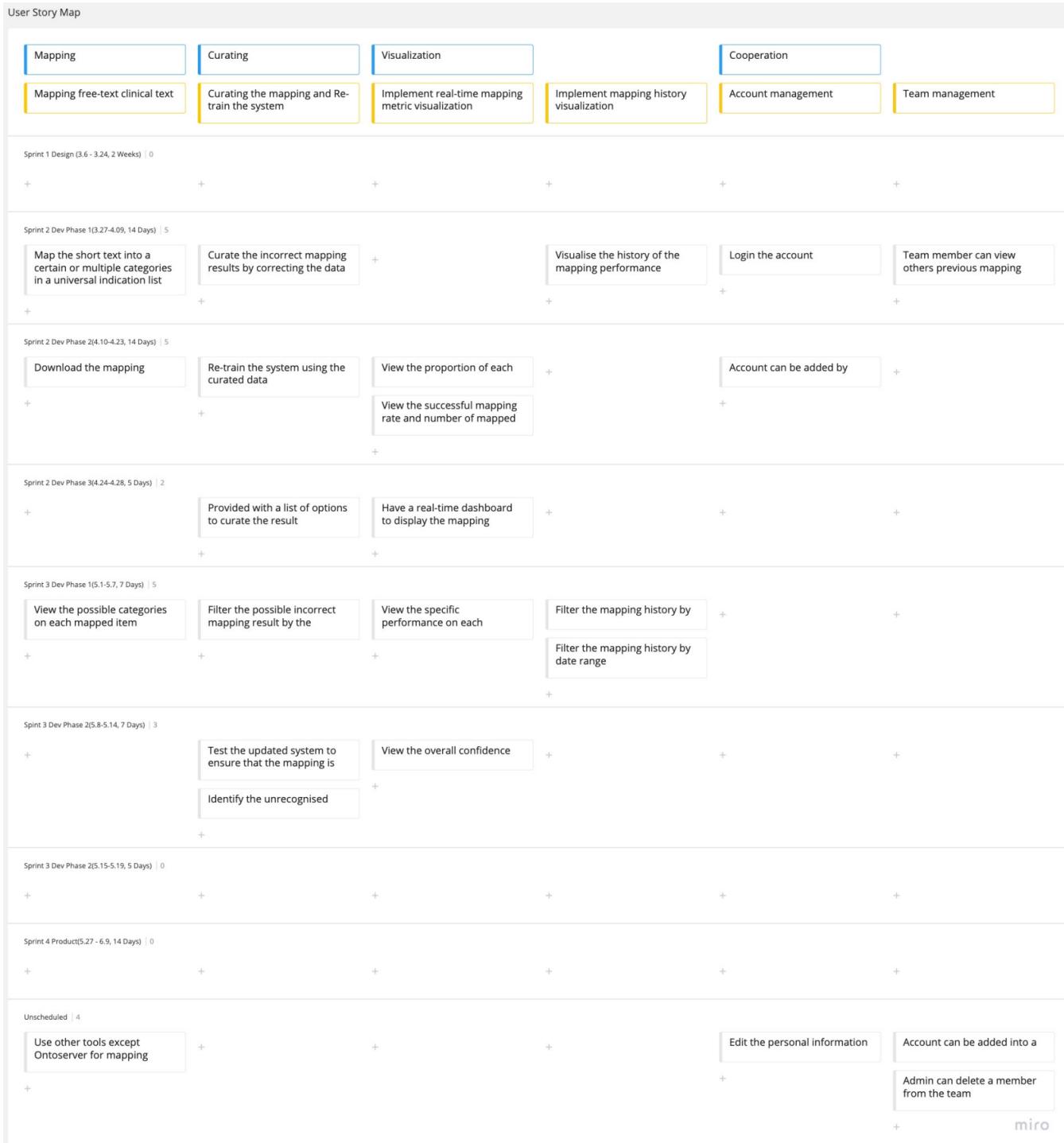
User Story Map Framework



miro

Version 1.0.0

User Story Map Framework



Milestones

Sprint 1 - Design Sprint

There are four milestones during the development of our sprint 1, each of which took us a week to accomplish.

Sprint 1 is the design sprint, which means that the design and plan of the project are the core of this period.

Milestones	Date	Completed artifacts
Milestone1	From February 27th to March 5th	<ul style="list-style-type: none">• Role assignments during the inception• Technologies being considered include deployment platform• Contact Client
Milestone2	From March 6th to March 12th	<ul style="list-style-type: none">• User Stories• Initial system architecture• Functional & Non-functional Requirements
Milestone3	From March 13th to March 19th	<ul style="list-style-type: none">• Product Backlog on Trello• The motivational model• Development Environment Plan• Github initialization
Milestone4	From March 20th to March 26th	<ul style="list-style-type: none">• Digital Prototype• Product Backlog• Reviews of Tasks• Personas• Sprint 2 and sprint3 Roles Assignment

Sprint 2 - Development

There are four milestones during the development of our sprint 2, each of which took us a week to accomplish.

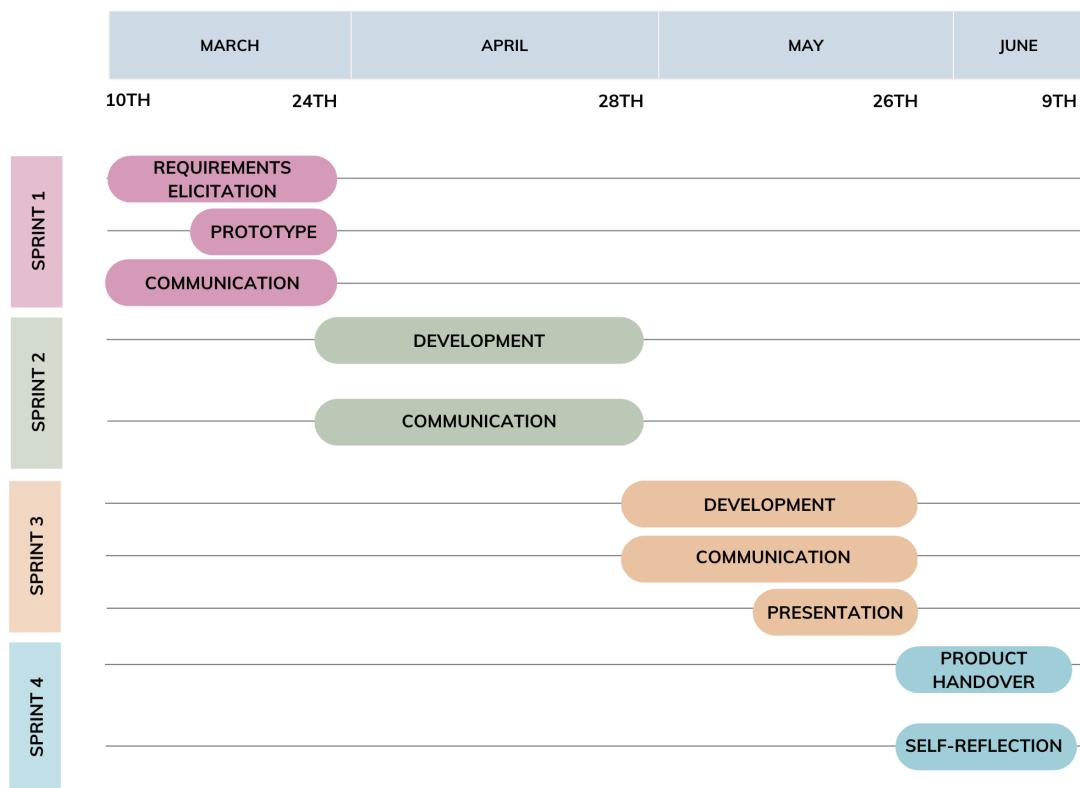
The days from April 10 to April 16 are during the Non-teaching period of the university.

Sprint 1 is the development sprint, which means that the implementation of the user stories is the core of this period.

Milestones	Date	Completed artifacts
Milestone1	From March 27 to April 2	<ul style="list-style-type: none">• Account Login• Modify the sprint 1 confluence documentation• Auto deployment using scripts
Milestone2	From April 3th to April 9th	<ul style="list-style-type: none">• Map short text into the terms of UIL(universal indication list)• Add on Ontoserver Licensing information on the Confluence page
Milestone3	From April 17th to April 23rd	<ul style="list-style-type: none">• Identify Unrecognized Results in Mapping Process
Milestone4	From April 24th to May 1st	<ul style="list-style-type: none">• Download Mapping Results• Write and organize all documents on the Confluence• Successful submission

Timeline

Title	Creator	Modified
Sprint 3 - Development	Ricardo Luo	yesterday at 12:38 AM
Sprint 2 - Development	Ricardo Luo	yesterday at 12:38 AM
Sprint 1 - Design Sprint	Chenyang Dong	yesterday at 12:36 AM
Sprint 4 - Product	Chenyang Dong	30 Mar, 2023



Sprint 1 - Design Sprint

Title	Creator	Modified
Sprint 1 - Review	Chenyang Dong	about an hour ago
Sprint 1 - Plan	Chenyang Dong	about an hour ago

Sprint 1 - Plan

1 Sprint goals

- To build a substantial foundation for the project by producing critical design including user stories, product backlog, and digital prototype.
- Compose the functional and non-functional requirements of the project.
- Decompose the requirements into user stories.
- Provide a digital prototypes to client.
- Assign roles for team members.

2 Roles and Responsibility

- [Role Assignment](#)

3 Task Planning

- Contact Client
- User Stories
- Initial system architecture
- Development Environment Plan
- Summarise Functional & Non-functional Requirements
- The motivational model
- Role assignments during the inception
- Meeting minutes all the time
- Technologies being considered include deployment platform
- Personas
- Product Backlog on Trello
- Github initialization
- Reviews of Tasks on Trello
- Digital Prototype
- Sprint 2/3 Role Assignment

Sprint 1 - Review

1 Introduction

- Date: from 27 Feb 2023 to 24 Mar 2023
- Sprint Name/Number: Sprint 1 - Design Sprint
- Attendees (Team members, Product Owner, Scrum Master, stakeholders):
 - Clients: Daniel Capurro, Vlada Rozova, Mike Conway
 - Supervisor: Mauro Mello Jr
 - Team members: Kunxi (Quincy) Sun, Chenyang (Peter) Dong, Hanyi (Henry) Gao, Yue (Molly) Fei, Yulai (Ricardo) Luo

2 Sprint Goals

- Compose the [functional](#) and [non-functional](#) requirements of the project.
- Decompose the requirements into [user stories](#) and [acceptance criteria](#).
- Provide a [digital prototypes](#) to client.
- Assign [roles](#) for team members.

3 Completed Work

Task	Complete?	Comment
Contact Client	<input checked="" type="checkbox"/>	<ul style="list-style-type: none">• Communication with Clients
User Stories	<input checked="" type="checkbox"/>	<ul style="list-style-type: none">• User Stories and Acceptance Criteria
Initial system architecture	<input checked="" type="checkbox"/>	<ul style="list-style-type: none">• Architecture
Development Environment Plan	<input checked="" type="checkbox"/>	<ul style="list-style-type: none">• Server configuration
Summarise Functional & Non-functional Requirements	<input checked="" type="checkbox"/>	<ul style="list-style-type: none">• Functional Requirements• Non-Functional Requirements
The motivational model	<input checked="" type="checkbox"/>	<ul style="list-style-type: none">• Motivational Model
Role assignments during the inception	<input checked="" type="checkbox"/>	<ul style="list-style-type: none">• Sprint 1 - Plan
Meeting minutes all the time	<input checked="" type="checkbox"/>	<ul style="list-style-type: none">• Meetings
Technologies being considered include deployment platform	<input checked="" type="checkbox"/>	<ul style="list-style-type: none">• Technique Detail
Personas	<input checked="" type="checkbox"/>	<ul style="list-style-type: none">• Personas
Product Backlog on Trello	<input checked="" type="checkbox"/>	<ul style="list-style-type: none">• Trello (Join by Invitation Link)

Github initialization	<input checked="" type="checkbox"/>	<ul style="list-style-type: none"> • Github
Reviews of Tasks on Trello	<input checked="" type="checkbox"/>	<ul style="list-style-type: none"> • Trello (Join by Invitation Link)
Digital Prototype	<input checked="" type="checkbox"/>	<ul style="list-style-type: none"> • Digital Prototype
Sprint 2/3 Role Assignment	<input checked="" type="checkbox"/>	<ul style="list-style-type: none"> • Sprint 2 - Plan • Sprint 3 - Plan

4 Incomplete Work

- User stories or tasks not completed during the sprint:
None
- Explain the reasons for not completing the work and any related challenges:
None

5 Metrics

- Total number of story points completed:
None
- Total number of story points planned:
None
- Velocity (completed story points / planned story points):
None
- Burndown chart (if applicable):
None
- There are no story points completed in the design sprint.

6 Stakeholder Feedback

6.1 Stakeholder's feedback and suggestions for improvement:

- Our client suggested that we could develop more mapping ideas and methods.
- Our supervisor suggested that we should focus more on the documentation for the first sprint instead of the code.

6.2 How the feedback will be addressed in future sprints:

- In response to our client's suggestion, we decided to research more technical papers on mapping to get inspiration
- In response to our supervisor's suggestion, we decided to add more details to the Confluence pages.

7 Next Steps

7.1 Plan for the next sprint:

- The next sprint is the development sprint, which means that we will focus more on coding.
- The planned user stories which will be implemented in sprint 2 are:

US0001, US0002, US0004, US0006, US0007, US0019 and US0021

7.2 Adjustments needed based on the sprint review feedback:

- We planned to read more papers for finding a more accurate and efficient mapping approach.
- And we will continue to do detailed documentation.

7.3 Schedule the next sprint planning meeting:

- We plan the sprint 2 planning meeting on 24 Mar 2023.

8 Closing Remarks

8.1 Final thoughts or comments on the sprint and the review from team members and stakeholders:

- **Team members:**

Teamwork is vital and we need more meetings to thoroughly understand each other's perspectives. At the moment, we are working well together as a team and we hope that the sprint will be the same afterward!

Sprint 2 - Development

Title	Creator	Modified
Sprint 2 - Plan	Chenyang Dong	about an hour ago
Sprint 2 - Review	Chenyang Dong	about an hour ago
Sprint 2 - Backlog	Chenyang Dong	yesterday at 1:24 AM

Sprint 2 - Plan

1 Sprint Goals

- Enable efficient and accurate mapping of short text into the terms of the Universal Indication List (UIL) by developing a mapping system, allowing for account login and management, and providing category options for mapped items

2 Roles and Responsibility

- [Role Assignment](#)

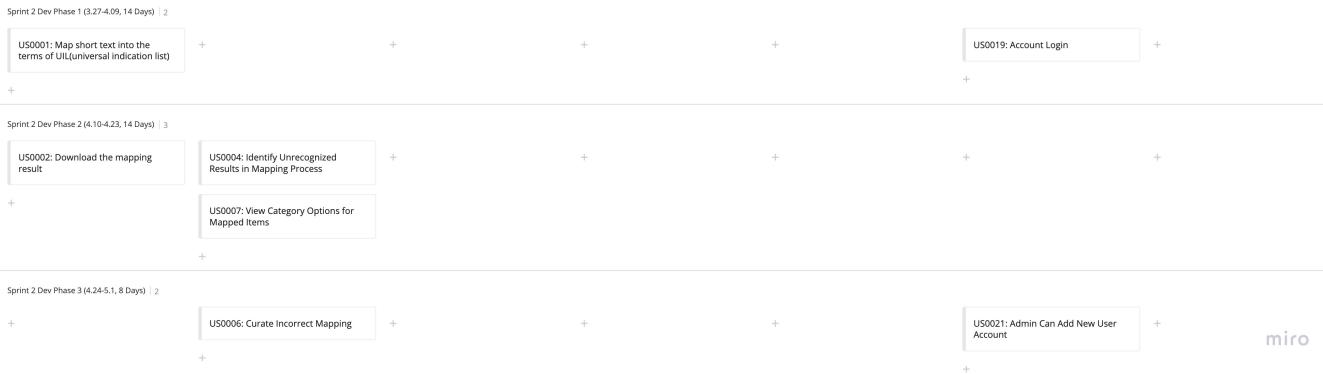
3 Planning

3.1 Techniques to use

- Backend: Python Flask, Nginx, Gunicorn, Docker, Ansible
- Frontend: React, HTML, JS, CSS, Ant Design
- Database: MongoDB
- Mapping tool: Ontoserver and other potential alternatives
- [Technique Detail](#)

3.2 Backlog with Phase Plan

Table view of backlog in [Sprint 3 - Review](#)



4 Infrastructure for Continuous Integration

- [Team Development Cloud Server configuration](#)

Sprint 2 - Backlog

Table View

Feature	StoryID	Story/Scenario	MoSCoW Priority	Story Point	Subtask [Estimate]	Status	Assigned To	Due Date	Comment
Map short text into the terms of UIL(universal indication list)	US0001	As a medical researcher I want to map the short text into certain or multiple categories in a universal indication list So that I do not need to map the text manually	Must Have	8	<input checked="" type="checkbox"/> Implement the single text mapping user interface [1 hour]	DONE	Hanyi Gao	09 Apr 2023	Due to complexity of this function, change of mapping requirements and and recent notice that the deployment environment does not allow constant use of external endpoints, our progress was impacted.
					<input checked="" type="checkbox"/> Implement the CSV file mapping user interface with a browse button [1 hour]	DONE	Hanyi Gao	09 Apr 2023	
					<input checked="" type="checkbox"/> Create a function for submitting short text and retrieving mapped categories using the Ontoserver API [1 hour]	DONE	Hanyi Gao	09 Apr 2023	
					<input type="checkbox"/> Map the short text into certain or multiple categories in SNOMED CT [3 hours]	IN PROGRESS	Chenyang Dong	28 Apr 2023	New approach is going to be experimented to combine with existing mapping tool to fulfill the requirements in the next sprint.
					<input type="checkbox"/> Further match the mapping result from SNOMED CT into UIL [2 hours]	IN PROGRESS	Chenyang Dong	28 Apr 2023	
					<input type="checkbox"/> Preprocess the raw text [1 hour]	TO DO	Yue Fei	TBD	The preprocessing of the raw text was pending since many approaches contain such strategies.
Download Mapping Results	US0002	As a medical researcher I want to download the mapping results So that I can save the mapping history and view it in the future	Must Have	3	<input checked="" type="checkbox"/> Develop the 'Download' button user interface for the input CSV file [1 hour]	DONE	Hanyi Gao	23 Apr 2023	
					<input type="checkbox"/> Develop a secure API endpoint to retrieve the mapping results for the input CSV file [3 hours]	TO DO	Chenyang Dong	23 Apr 2023	Delayed to next sprint due to being blocked by mapping result.
					<input type="checkbox"/> Create API endpoint for retrieving mapping results [2 hours]	TO DO	Chenyang Dong	23 Apr 2023	

						<input type="checkbox"/> Connect the 'Download' button to the API endpoint to trigger the file download [1 hour]	TO DO	Hanyi Gao	23 Apr 2023	
Identify Results Status in Mapping Process	US0004	As a medical researcher (curator) I want to easily identify the status of the mapping process for each raw text input So that I can quickly determine if further curation or review is needed	Must Have	5		<input checked="" type="checkbox"/> Implement the unrecognized results user interface by adding mapping status for the result [2 hours]	DONE	Hanyi Gao	23 Apr 2023	Modified after change of output requirements of four different scenarios. 2023-04-14 Change of Mapping Requirements
Curate Mapping Result	US0006	As a medical researcher (curator) I want to review and curate the failed-mapping result or mapping results of raw text to SNOMED-CT into UIL So that I can give feedback to the system and improve it	Must Have	5		<input checked="" type="checkbox"/> Implement the curation user interface [1 hour]	DONE	Hanyi Gao	28 Apr 2023	
						<input type="checkbox"/> Create API endpoint for submitting curated data [1 hour]	TO DO	Chenyang Dong	28 Apr 2023	Approach to make curation improve the system TBD depends on the method finally used
View Category Options for Mapped Items	US0005	As a medical researcher (curator) I want to see a list of category options while curating the data So that I can choose the correct category for the incorrect mapping or unmapped items	Must Have	3		<input checked="" type="checkbox"/> Develop the category options dropdown user interface [1 hour]	DONE	Hanyi Gao	23 Apr 2023	Different level of category options according to UIL.
						<input checked="" type="checkbox"/> Add functionality to handle medical researchers' category selections [2 hours]	DONE	Hanyi Gao	23 Apr 2023	After Selecting from the UIL, the mapping status will become 'Reviewed'
Account Login	US0016	As a medical researcher I want to login my account So that I can be identified by the system for curating.	Must Have	3		<input checked="" type="checkbox"/> Develop the login user interface based on the approved design [1 hour]	DONE	Hanyi Gao	09 Apr 2023	With email and password
						<input checked="" type="checkbox"/> Develop a secure API endpoint for user authentication [1 hour]	DONE	KUNXI SUN	09 Apr 2023	
						<input checked="" type="checkbox"/> Implement input validation on the front-end [1 hour]	DONE	Hanyi Gao	09 Apr 2023	
						<input checked="" type="checkbox"/> Connect front-end login to the authentication API [2 hours]	DONE	Hanyi Gao	09 Apr 2023	
Add New User Account	US0018	As an admin user I want to add an account to the system So that I can give other people access to the system	Should Have	5		<input type="checkbox"/> Develop the 'Add New User' user interface [1 hour]	IN PROGRESS	Ricardo Luo	28 Apr 2023	
						<input type="checkbox"/> Create API endpoint for sending email invitations [1 hour]	IN PROGRESS	Ricardo Luo	28 Apr 2023	

					<input type="checkbox"/> Connect the 'Add New User' UI to the email invitation API [1 hour]	TO DO	Ricardo Luo	28 Apr 2023
					<input type="checkbox"/> Implement email-sending functionality [2 hours]	IN PROGRESS	Ricardo Luo	28 Apr 2023

Sprint 2 - Review

This sprint review note is the discussion result based on the [Sprint 2 Review Meeting](#).

1 Introduction

- Date: from 27 Mar 2023 to 01 May 2023
- Sprint Name/Number: Sprint 2 - Develop sprint
- Attendees (Team members, Product Owner, Scrum Master, stakeholders):
 - Clients: Daniel Capurro, Vlada Rozova, Mike Conway
 - Supervisor: Mauro Mello Jr
 - Team members: Kunxi (Quincy) Sun, Chenyang (Peter) Dong, Hanyi (Henry) Gao, Yue (Molly) Fei, Yulai (Ricardo) Luo

2 Sprint Goals

- Enable efficient and accurate mapping of short text into the terms of the Universal Indication List (UIL) by developing a mapping system, allowing for account login and management, and providing category options for mapped items

3 Completed Work

- Finished user stories:
 - US0004: Identify Results Status in Mapping Process
 - US0005: View Category Options for Mapped Items
 - US0016: Account login
 - US0018: Add New User Account
- CI/CD: Script to auto-deploy services: gateway, map, auth, web, MongoDB and the ChatGPT code review.
- System testing for all finished features
- Deployment

4 Incomplete Work

- Incomplete user stories:
 - US0001: Map short text into the terms of UIL(universal indication list)

Reason: Due to the complexity of this function, [change of mapping requirements](#) and [recent notice that the deployment environment does not allow constant use of external endpoints](#), our progress was impacted. A new approach is going to be experimented with to combine with the existing mapping tool to fulfill the requirements in the next sprint.

- US0002: Download the mapping results
Reason: Delayed to the next sprint due to being blocked by the mapping approach.
- US0006: Curate Mapping Result
Reason: Delayed to the next sprint as well due to being blocked by the mapping approach.

5 Metrics

- Total number of story points completed: 16
- Total number of story points planned: 30
- Velocity (completed story points / planned story points): 0.53

6 Stakeholder Feedback

- Stakeholder's feedback and suggestions for improvement:
 - Clients suggest that we can develop our own algorithm as well as look into MedCAT since the requirements change.
 - Clients suggest that we could catch up on the current sprint and adjust to the next sprint as soon as possible.
 - The supervisor suggest that we could create a more organised timeline and urge each member to complete the corresponding tasks on time.
- How the feedback will be addressed in future sprints:
 - We accept the client's advice and plan to develop our own algorithm while also continuing to develop MedCAT.
 - We aim to complete our delayed work as soon as possible and will incorporate risk management into the upcoming sprints.

7 Reflection

- Over-relying on one approach and wasting too much time on Ontoserver(The mapping tool) cause the following issues:
 - Deploying Ontoserver in Australia and out of Australia is different, but the production environment will be in Australia so figuring out how to deploy Ontoserver in and out of Australia is quite a waste of effort.
 - One of the team members is in China which makes him unable to deploy Ontoserver locally.
 - Team didn't realise the risk of disability by using third-party tools such as Ontoserver.
- Lose communication with clients about the SRE(production environment).
- Could have done a better job with risk management, such as tracking the production environment, and managing risk of using Ontoserver as the only mapping tool.
- Tasks on Trello should be assigned to the person with a due date ---- Scrum master could manage the project progress by tracking the team member's tasks.
- Team members unfamiliar with the techniques used in this project ---- can be solved to have more pair programming on Zoom.
- Lack of regular weekly team meetings ---- can be solved to hold regular team meetings.

8 Decision and Next Steps

- Better risk management:
 - Currently we only specify the risk with description and progress update on Trello with a due date
 - In the following sprint, risk response strategy could be documented to help with responding the risk
- Regular internal team meeting, everyday on 9pm
- Regular pair programming: can be held by all team members, and can be held by 2-3 people
- Better task management: task assign to a person with due dates and scrum master track team member's task
- Plan for the next sprint:
 - Finish the core user stories by using MedCAT or a self-implemented algorithm at the beginning of 15 days.
 - Implement GitHub Actions to do CI/CD.
 - Decide to use MedCAT or a self-implemented mapping algorithm.
- Adjustments needed based on the sprint review feedback:
 - The team organises a meeting for about one to two hours every day to implement tasks together
 - Every team member spends more time on the project
- Move on sprint 3 planning meeting after sprint 2 review meeting

9 Closing Remarks

9.1 Final thoughts or comments on the sprint and the review from team members and stakeholders:

- **Team members:**

Our team believes that we urgently need to accelerate our progress. Due to some technical difficulties and unexpected changes, our sprint 2 is not progressing as expected. In our next sprint, we need to keep the lessons of sprint 2 in mind. We need to prepare multiple alternatives. If a development solution fails, we need to start a new one soon to save time.

- **Stakeholders:**

Although our team spent a lot of time trying out the mapping approach in sprint 2, our current product is still good and we are not behind in our development.

Sprint 3 - Development

Title	Creator	Modified
Sprint 3 - Plan	Chenyang Dong	about an hour ago
Sprint 3 - Backlog	Chenyang Dong	about an hour ago

Sprint 3 - Plan

1 Sprint Goal

- Complete the remaining user stories from sprint 2
- Finish major user stories in the first 15 days (mapping, curate, visualise and download)
- Additionally, if possible, implement optional features in product backlogs.

2 Roles and Responsibility

- [Role Assignment](#)

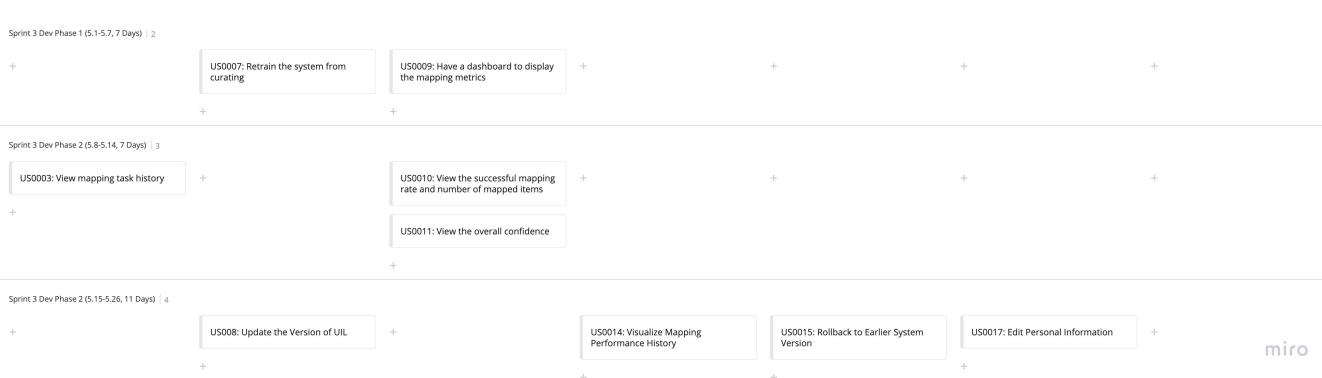
3 Planning

3.1 Tasks details

- Implement user stories: Use the first 15 days of the next sprint to implement the following user stories
 - Mapping function: Finish these core user stories by using MedCAT or a self-implemented algorithm.
 - Visualisation: Follow the requirements from the client to implement the front-end pages.
 - Curate:
- Testing: Use the rest of the sprint to do testing and implement additional trivial user stories.
- CI/CD: implement GitHub Actions to do CI/CD (combine with the current Ansible script which is used for handover-deploy)

3.2 User stories map

Table view of backlog in [Sprint 3 - Backlog](#)



3.3 Addition tasks/rules

- Better risk management:
 - Currently, we only specify the risk with a description and progress update on Trello with a due date
 - In the following sprint, the risk response strategy could be documented to help with responding to the risk
- Regular internal team meeting, every day at 9 pm
- Regular pair programming: can be held by all team members, and can be held by 2-3 people
- Better task management: task assigned to a person with due dates and scrum master track team member's task

Sprint 3 - Backlog

Table View

Feature	StoryID	Story/Scenario	MoSCoW Priority	Story Point	Subtask [Estimate]	Status	Assigned To	Due Date	Comment
Map short text into the terms of UIL(universal indication list) [From Sprint 2]	US0001	As a medical researcher I want to map the short text into certain or multiple categories in a universal indication list So that I do not need to map the text manually	Must Have	8	<input type="checkbox"/> Preprocess the raw text [1 hour]	IN PROGRESS	Yue Fei	07 May 2023	Not required if MedCAT is finally selected
					<input type="checkbox"/> Map the short text into certain or multiple categories in SNOMED CT [3 hours]	IN PROGRESS			Unique preprocessing guide for clinical terms
					<input type="checkbox"/> Further match the mapping result from SNOMED CT into UIL [2 hours]	IN PROGRESS			Custom algorithm and MedCAT implementing at the same time
Download Mapping Results [From Sprint 2]	US0002	As a medical researcher I want to download the mapping results So that I can save the mapping history and view it in the future	Must Have	3	<input type="checkbox"/> Develop a secure API endpoint to retrieve the mapping results for the input CSV file [3 hours]	TO DO	Chenyang Dong	07 May 2023	Based on current assumption from client, this is easy to implement. However, by observing the UIL, the assumption might change in the future when it is confirmed.
					<input type="checkbox"/> Create API endpoint for retrieving mapping results [2 hours]	TO DO			
					<input type="checkbox"/> Connect the 'Download' button to the API endpoint to trigger the file download [1 hour]	TO DO			
View mapping task history	US0003	As a medical researcher I want to view my own and team members' previous mapping task So that I can review the mapping results and performance	Must	5	<input type="checkbox"/> Create a backend API for fetching mapping task history	TO DO	Chenyang Dong	14 May 2023	
					<input type="checkbox"/> Develop a frontend component for displaying mapping task history (card style)	TO DO			

					<input type="checkbox"/> Integrate the frontend component with the backend API <input type="checkbox"/> Implement search and filtering functionalities (by date range or user) for mapping task history	TO DO	Hanyi Gao	14 May 2023	
					<input type="checkbox"/> Create a backend API endpoint to gather and store curated data for submitting [1 hour]	TO DO	TBD	26 May 2023	
Curate Mapping Result [From Sprint 2]	US0006	As a medical researcher (curator) I want to review and curate the failed-mapping result or mapping results of raw text to SNOMED-CT into UIL So that I can give feedback to the system and improve it	Must Have	5	<input type="checkbox"/> Create a function to update the downloadable data with the curated mapping results	TO DO	Chenyang Dong	14 May 2023	
Retrain the system from curating	US0008	As a medical researcher (curator) I want to re-train the system using the curated data So that I can make the system have a better mapping performance in the future	Must Have	5	<input type="checkbox"/> Collect curated data from via the API created in US0006 <input type="checkbox"/> Create a backend API for retraining the system <input type="checkbox"/> Adapt the system's training algorithm to incorporate the curated data	TO DO	TBD	14 May 2023	
Update the Version of UIL	US0025	As an admin user I want to update the UIL to the latest version So that I can access the most up-to-date term for curation	Must Have	5	<input type="checkbox"/> Develop the interface to allow uploading a format-compatible file of the new UIL version <input type="checkbox"/> Develop a version comparison tool <input type="checkbox"/> Communicate the UIL version update or display the version of UIL on the interface	TO DO	Yue Fei	19 May 2023	
Add New User Account [From Sprint 2]	US0021	As a medical researcher I want to add an account to the system So that I can give other people access to the system	Should Have	5	<input type="checkbox"/> Develop the 'Add New User' user interface [1 hour]	IN PROGRESS	Ricardo Luo	07 May 2023	

					<input type="checkbox"/> Create API endpoint for sending email invitations [1 hour]	IN PROGRESS	Ricardo Luo	07 Apr 2023
					<input type="checkbox"/> Connect the 'Add New User' UI to the email invitation API [1 hour]	TO DO	Ricardo Luo	07 May 2023
					<input type="checkbox"/> Implement email-sending functionality [2 hours]	IN PROGRESS	Ricardo Luo	07 May 2023
Have a dashboard to display the mapping metrics	US0010	As a medical researcher I want to have a dashboard to display the mapping metrics for a mapping task So that I can review and analyze mapping results	Must Have	8	<input type="checkbox"/> Develop the interface of data visualization components	TO DO	Hanyi Gao	07 May 2023
					<input type="checkbox"/> Integrate the dashboard with the mapping system	TO DO	TBD	14 May 2023
View the successful mapping rate and number of mapped items	US0011	As a medical researcher I want to view the successful mapping rate and number of mapped items in a dashboard So that I can assess the performance of the system on current mapping task	Should Have	3	<input type="checkbox"/> Determine the calculations for the successful mapping rate and the number of mapped items	TO DO	TBD	14 May 2023
					<input type="checkbox"/> Develop the data visualization component for successful mapping rate and number of mapped items	TO DO	TBD	14 May 2023
View the overall confidence	US0012	As a medical researcher (curator) I want to view the overall confidence in a dashboard So that I can assess the performance of the system on current mapping task	Should Have	5	<input type="checkbox"/> Determine the calculation or aggregation method for the overall confidence	TO DO	TBD	14 May 2023
					<input type="checkbox"/> Develop the data visualization component for the overall confidence metric	TO DO	TBD	14 May 2023
Visualize Mapping Performance History	US0015	As a medical researcher I want to visualize the history of the mapping performance So that I can measure the mapping quality	Must Have	8	<input type="checkbox"/> Create a backend API for fetching overall mapping performance data	TO DO	TBD	19 May 2023
					<input type="checkbox"/> Develop a data visualization component for overall mapping performance	TO DO	TBD	19 May 2023

					<input type="checkbox"/> Connect the overall mapping performance visualization to the backend API	TO DO	TBD	26 May 2023	
Rollback to Earlier System Version	US0018	As a admin user I want to rollback to earlier (default) version of the mapping system So that I can restore the default behaviour of the system	Should Have	5	<input type="checkbox"/> Identify and store the default version of the mapping system	TO DO	TBD	19 May 2023	From requirement of clients, the system should be able to restore to default version.
					<input type="checkbox"/> Create a backend API for triggering the rollback process	TO DO	TBD	26 May 2023	
					<input type="checkbox"/> Develop a frontend component for initiating the rollback process	TO DO	TBD	19 May 2023	
					<input type="checkbox"/> Implement user authentication and authorization for admin users	TO DO	TBD	26 May 2023	

Communications

Title	Creator	Modified
Communication with Clients	Chenyang Dong	yesterday at 1:32 AM
Communication with Other Parties	Chenyang Dong	27 Apr, 2023
Communication with Supervisor	Chenyang Dong	27 Apr, 2023

Clients:

Name	Email
Daniel Capurro	dcapurro@unimelb.edu.au
Vlada Rozova	vlada.rozova@unimelb.edu.au
Mike Conway	mike.conway@unimelb.edu.au

Supervisor:

Name	Email
Mauro Mello Jr	mauro.mellojr@unimelb.edu.au

Our Team (BoxJelly)

Name	Email
Kunxi Sun	kunxis@student.unimelb.edu.au
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Hanyi Gao	hanyig1@student.unimelb.edu.au
Yulai Luo	yulail1@student.unimelb.edu.au
Yue Fei	yfffei@student.unimelb.edu.au

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Yanxi Ke	yake@student.unimelb.edu.au
Jiacheng Wang	jiacwang3@student.unimelb.edu.au

Communication with Clients

- 2023-03-09(-10) Arrange Kick-Off Meeting
- 2023-03-10 After Kick-off Meeting
- 2023-03-12(-16) Follow-up on Weekly Meeting Details and Scheduling
- 2023-03-17 Information Update After Weekly Meeting #1
- 2023-03-20(-23) Access to UIL
- 2023-03-23 Access to Ontoserver
- 2023-03-27 Providing the Comparison Table Between Mapping Tools
- 2023-04-03 Adjustment of Weekly Meeting Due to Good Friday
- 2023-04-04 Request for Information on SRE Platform
- 2023-04-14 Change of Mapping Requirements
- 2023-04-28 Apply for Melbourne Research Cloud (MRC) Instance

2023-03-09(-10) Arrange Kick-Off Meeting

 <p>THE UNIVERSITY OF MELBOURNE</p>	Chenyang Dong < doncd@student.unimelb.edu.au >
<p>COMP90082 Industry Project Kick-Off Meeting 15 messages</p>	
<p>Chenyang Dong <doncd@student.unimelb.edu.au> Thu, Mar 9, 2023 at 6:22 PM</p>	
<p>To: dcapurro@unimelb.edu.au, влада.розова@унимелб.еду.ау Cc: mauro.mellojr@unimelb.edu.au, KUNXI SUN <kunxis@student.unimelb.edu.au>, Hanyi Gao <hanyig1@student.unimelb.edu.au>, Ricardo Luo <yulaili1@student.unimelb.edu.au>, Yue Fei <yffei@student.unimelb.edu.au></p>	
<p>Dear Prof Daniel Capurro and Dr Vlada Rozova,</p> <p>My name is Chenyang Dong and I am a student at the University of Melbourne completing COMP90082 of the Master of Information Technology. I am representing the student project team (DI-BoxJelly) assigned to your 2023 Industry Project. Thank you for providing us the opportunity to contribute to your team by hosting this project. We are excited about working on this project with you and learning from you.</p> <p>We would like to organize the initial meeting to discuss the proposed project in more detail. Our proposed agenda items are: introductions; project overview/scope; expected deliverables/outcome; timelines; and our communications throughout the year. If you have any additional agenda items, please let me know. Our expectation is the meeting will last approximately 1 hour. Can you please confirm?</p> <p>Here are possible dates available for our team:</p> <ul style="list-style-type: none">• Friday 10 March at 1-3pm• Saturday and Sunday 11/12 March (if possible)• Monday 13 March at 10am-12pm• Tuesday 14 March at 12-3pm <p>Please let me know your preference or suggest alternatives.</p> <p>Given ongoing physical distancing restrictions, we anticipate most of our meetings will be virtual. When we schedule meetings, do you prefer Zoom, Teams, or another platform?</p> <p>Once the date/time is confirmed, I will send a calendar invite. If you want others from your team included, can you please forward their email addresses? To learn a little more about your project team, below are links to each of our LinkedIn profiles:</p> <ul style="list-style-type: none">• Chenyang Dong• Kunxi Sun• Yulai Luo• Yue Fei• Hanyi Gao <p>Again, thank you for hosting this project, and we look forward to meeting you soon and learning more about the project.</p> <p>Kind regards,</p> <p>Chenyang Dong</p> <p>COMP90082, Software Project, Master of Information Technology</p> <p>University of Melbourne</p> <p>0401783575</p> <p>doncd@student.unimelb.edu.au</p>	
<p>Mauro Mello Jr <mauro.mellojr@unimelb.edu.au></p>	Thu, Mar 9, 2023 at 7:31 PM
<p>To: Chenyang Dong <doncd@student.unimelb.edu.au></p>	

Hi Chenyang—

1. Meetings with clients should not be scheduled on weekends.

2. There are two teams working on the Digital Health (DI) project, and both project teams should attend the meeting at the same time with the clients. There should not be two meetings held separately. Discuss this with the team DI/RedBack and arrange for a single meeting with all present, as both teams will discuss how to proceed. If necessary, withdraw this message and issue an updated one, with all participants combined.

Regards,

Mauro Mello Jr

Supervisor

[Quoted text hidden]

Chenyang Dong <doncd@student.unimelb.edu.au> Thu, Mar 9, 2023 at 8:00 PM

To: Mauro Mello Jr <mauro.mellojr@unimelb.edu.au>

Thank you for your kind reply.

We will arrange time with the other team and update you as soon as possible.

Best Regards,

Chenyang Dong

From: Mauro Mello Jr <mauro.mellojr@unimelb.edu.au>

Sent: Thursday, March 9, 2023 7:31:24 PM

To: Chenyang Dong <doncd@student.unimelb.edu.au>

Subject: Re: COMP90082 Industry Project | Kick-Off Meeting

[Quoted text hidden]

Mauro Mello Jr <mauro.mellojr@unimelb.edu.au>

Thu, Mar 9, 2023 at 8:30 PM

To: Chenyang Dong <doncd@student.unimelb.edu.au>

Hi Chenyang—

That is part of the PDCA (plan-do-check-act) process that will take place throughout the semester and results in continuous learning.

Everything is a learning opportunity.

Regards,

Mauro Mello Jr

Supervisor

[Quoted text hidden]

Chenyang Dong <doncd@student.unimelb.edu.au>

Thu, Mar 9, 2023 at 8:54 PM

To: Mauro Mello Jr <mauro.mellojr@unimelb.edu.au>

Dear Mr. Mello,

Thank you for bringing this to our attention. We will make sure to avoid doing so in the future. Our team will be fully aware of PDCA process in the following semester.

Once again, thank you for your guidance and we will take your feedback into consideration moving forward.

Best Regards,

Chenyang Dong

From: Mauro Mello Jr <mauro.mellojr@unimelb.edu.au>

Sent: Thursday, March 9, 2023 8:30:18 PM

[Quoted text hidden]

[Quoted text hidden]

Mauro Mello Jr <mauro.mellojr@unimelb.edu.au>

Thu, Mar 9, 2023 at 9:02 PM

To: Chenyang Dong <doncd@student.unimelb.edu.au>

Hi Chenyang—
Good—always think about what you can learn from any and every situation in projects.

And just Mauro will do.

Regards,

Mauro Mello Jr
Supervisor

[Quoted text hidden]

Daniel Capurro <dcapurro@unimelb.edu.au>

Thu, Mar 9, 2023 at 10:35 PM

To: Vlada Rozova <vlada.rozova@unimelb.edu.au>, Chenyang Dong <doncd@student.unimelb.edu.au>

Cc: Mauro Mello Jr <mauro.mellojr@unimelb.edu.au>, KUNXI SUN <kunxis@student.unimelb.edu.au>, Hanyi Gao <hanyig1@student.unimelb.edu.au>, Ricardo Luo <yulail1@student.unimelb.edu.au>, Yue Fei <yffei@student.unimelb.edu.au>

Hi Chenyang, nice to meet you and thanks for the introductory email and great to meet the team as well.

I'm available tomorrow between 1:30-2:30pm, let's check if that works for Vlada too.

Cheers
Daniel
[Quoted text hidden]

Chenyang Dong <doncd@student.unimelb.edu.au>

Fri, Mar 10, 2023 at 12:57 AM

To: Daniel Capurro <dcapurro@unimelb.edu.au>

Cc: Vlada Rozova <vlada.rozova@unimelb.edu.au>, Mauro Mello Jr <mauro.mellojr@unimelb.edu.au>, KUNXI SUN <kunxis@student.unimelb.edu.au>, Hanyi Gao <hanyig1@student.unimelb.edu.au>, Ricardo Luo <yulail1@student.unimelb.edu.au>, Yue Fei <yffei@student.unimelb.edu.au>

Dear Daniel,

Thank you for your availability on Friday, March 10th between 1:30-2:30pm. We appreciate your flexibility and eagerness to get started on the Digital Health project.

We understand the importance of having all team members present for the kickoff meeting for your convenience. Therefore, we are currently negotiating with the other team to find a mutually convenient time for everyone, and we will keep you updated as soon as we have more information.

In the meantime, please let us know if there are any other times that might work for you, and we will do our best to accommodate your schedule.

Thank you again for your understanding and cooperation. We look forward to meeting with you soon.

Best regards,

Chenyang Dong

[Quoted text hidden]

Mauro Mello Jr <mauro.mellojr@unimelb.edu.au>

Fri, Mar 10, 2023 at 1:57 PM

To: Chenyang Dong <doncd@student.unimelb.edu.au>, KUNXI SUN <kunxis@student.unimelb.edu.au>, Hanyi Gao <hanyig1@student.unimelb.edu.au>, Ricardo Luo <yulail1@student.unimelb.edu.au>, Yue Fei <yffei@student.unimelb.edu.au>

Chenyang and team—

Excellent follow up to the first message, with a clear explanation of items and actions.

Regards,

Mauro Mello Jr
Supervisor

[Quoted text hidden]

Chenyang Dong <doncd@student.unimelb.edu.au>

Fri, Mar 10, 2023 at 2:08 PM

To: Daniel Capurro <dcapurro@unimelb.edu.au>, Vlada Rozova <[vlada.rozova@unimelb.edu.au](mailto:vлада.розова@унимелб.еду.ау)>
Cc: Mauro Mello Jr <mauro.mellojr@unimelb.edu.au>, KUNXI SUN <kunxis@student.unimelb.edu.au>, Hanyi Gao <hanyig1@student.unimelb.edu.au>, Ricardo Luo <yulail1@student.unimelb.edu.au>, Yue Fei <yffei@student.unimelb.edu.au>, Yanxi KE <yake@student.unimelb.edu.au>, Runzhe HUA <runzheh@student.unimelb.edu.au>, Jiacheng WANG <jiacwang3@student.unimelb.edu.au>, Mingjun GAO <mingjung1@student.unimelb.edu.au>, Lang Cao <lancao@student.unimelb.edu.au>

Dear Daniel and Vlada,

Thank you for your attention to the kickoff meeting for the Digital Health project. Unfortunately, it appears that we will not be able to hold the meeting today as previously planned, as we have not received confirmation of availability from Vlada.

In order to find a mutually convenient time for everyone, we have decided to use the "When2meet" website to help coordinate availability for you and both teams. This will allow us to easily see the best times for everyone involved and find a time that works for all parties. The link to the website is: [DI Kick-off Meeting - When2meet](#).

We kindly request that you can first fill out the availability on the website. Once we receive your availability, we will do our best to accommodate your time and schedule the kickoff meeting at a time that works for everyone as soon as possible.

For the initial meeting, we would like to discuss the proposed project in more detail. Our proposed agenda items are: introductions; project overview /scope; expected deliverables/outcome; timelines; and our communications throughout the semester. If you have any additional agenda items, please let us know. Our expectation is the meeting will last approximately 1 hour. Can you please confirm?

Once the date/time is confirmed, I will send a calendar invite. If you want others from your team included, could you please forward their email addresses?

Thank you for your understanding and cooperation. We look forward to meeting with you soon.

Best regards,

Chenyang Dong

[Quoted text hidden]

Daniel Capurro <dcapurro@unimelb.edu.au>

Fri, Mar 10, 2023 at 3:27 PM

To: Vlada Rozova <vlada.rozova@unimelb.edu.au>, Chenyang Dong <doncd@student.unimelb.edu.au>
Cc: Mauro Mello Jr <mauro.mellojr@unimelb.edu.au>, KUNXI SUN <kunxis@student.unimelb.edu.au>, Hanyi Gao <hanyig1@student.unimelb.edu.au>, Ricardo Luo <yulail1@student.unimelb.edu.au>, Yue Fei <yffei@student.unimelb.edu.au>, Yanxi KE <yake@student.unimelb.edu.au>, Runzhe HUA <runzheh@student.unimelb.edu.au>, Jiacheng WANG <jiacwang3@student.unimelb.edu.au>, Mingjun GAO <mingjung1@student.unimelb.edu.au>, Lang Cao <lancao@student.unimelb.edu.au>

Hi Chengyang, any chance we can meet today at 4pm?

Cheers

Daniel

[Quoted text hidden]

Chenyang Dong <doncd@student.unimelb.edu.au>

Fri, Mar 10, 2023 at 3:41 PM

To: Daniel Capurro <dcapurro@unimelb.edu.au>
Cc: Vlada Rozova <vlada.rozova@unimelb.edu.au>, Mauro Mello Jr <mauro.mellojr@unimelb.edu.au>, KUNXI SUN <kunxis@student.unimelb.edu.au>, Hanyi Gao <hanyig1@student.unimelb.edu.au>, Ricardo Luo <yulail1@student.unimelb.edu.au>, Yue Fei <yffei@student.unimelb.edu.au>, Yanxi KE <yake@student.unimelb.edu.au>, Runzhe HUA <runzheh@student.unimelb.edu.au>, Jiacheng WANG <jiacwang3@student.unimelb.edu.au>, Mingjun GAO <mingjung1@student.unimelb.edu.au>, Lang Cao <lancao@student.unimelb.edu.au>

Hi Daniel,
I just confirmed with others from two groups. We have 9 people available and we would like to meet today at 4pm. I will send a calendar invitation to everyone right now.

Thank you!

Best regards,

Chenyang Dong

[Quoted text hidden]

Daniel Capurro <dcapurro@unimelb.edu.au>

Fri, Mar 10, 2023 at 3:46 PM

To: Chenyang Dong <doncd@student.unimelb.edu.au>

Perfect, see you in a bit

[Quoted text hidden]

Vlada Rozova <vlada.rozova@unimelb.edu.au>

Fri, Mar 10, 2023 at 3:48 PM

To: Chenyang Dong <doncd@student.unimelb.edu.au>
Cc: Daniel Capurro <dcapurro@unimelb.edu.au>, Mauro Mello Jr <mauro.mellojr@unimelb.edu.au>, KUNXI SUN <kunxis@student.unimelb.edu.au>, Hanyi Gao <hanyig1@student.unimelb.edu.au>, Ricardo Luo <yulail1@student.unimelb.edu.au>, Yue Fei <yffei@student.unimelb.edu.au>, Yanxi KE <yake@student.unimelb.edu.au>, Runzhe HUA <runzheh@student.unimelb.edu.au>, Jiacheng WANG <jiacwang3@student.unimelb.edu.au>, Mingjun GAO <mingjung1@student.unimelb.edu.au>, Lang Cao <lancao@student.unimelb.edu.au>

Hi all,

Apologies for not replying earlier. I will have to zoom in from my phone for the first 20 minutes. See you at 4pm.

Kind regards,

Vlada

On 10 Mar 2023, at 3:42 pm, Chenyang Dong <doncd@student.unimelb.edu.au> wrote:

[Quoted text hidden]

Chenyang Dong <doncd@student.unimelb.edu.au>

Fri, Mar 10, 2023 at 3:53 PM

To: Vlada Rozova <vlada.rozova@unimelb.edu.au>

Dear Vlada,

Thank you so much! See you at 4!

Best Regards,
Chenyang Dong

From: Vlada Rozova <vlada.rozova@unimelb.edu.au>

Sent: Friday, March 10, 2023 3:48:31 PM

To: Chenyang Dong <doncd@student.unimelb.edu.au>

Cc: Daniel Capurro <dcapurro@student.unimelb.edu.au>; Mauro Mello Jr <mauro.mellojr@student.unimelb.edu.au>; KUNXI SUN <kunxis@student.unimelb.edu.au>;

Hanyi Gao <hanyig1@student.unimelb.edu.au>; Ricardo Luo <yulail1@student.unimelb.edu.au>; Yue Fei <yfei@student.unimelb.edu.au>; Yanxi KE <yake@student.unimelb.edu.au>; Runzhe HUA <runzheh@student.unimelb.edu.au>; Jiacheng WANG <jiacwang3@student.unimelb.edu.au>;

Mingjun GAO <mingjung1@student.unimelb.edu.au>; Lang Cao <lancao@student.unimelb.edu.au>

Subject: Re: COMP90082 Industry Project | Kick-Off Meeting

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2023-03-10 After Kick-off Meeting

 THE UNIVERSITY OF MELBOURNE	Chenyang Dong < doncd@student.unimelb.edu.au >
COMP90082 Industry Project DI Kick-off Meeting 2 messages	
Daniel Capurro < dcapurro@unimelb.edu.au >	Fri, Mar 10, 2023 at 5:01 PM
To: "doncd@student.unimelb.edu.au" < doncd@student.unimelb.edu.au >, Yanxi KE < yake@student.unimelb.edu.au >, Jiacheng WANG < jiacwang3@student.unimelb.edu.au >, Lang Cao < lancao@student.unimelb.edu.au >, Runzhe HUA < runzheh@student.unimelb.edu.au >, Mingjun GAO < mingjung1@student.unimelb.edu.au >, Hanyi Gao < chanyig1@student.unimelb.edu.au >, Yue Fei < yffei@student.unimelb.edu.au >, KUNXI SUN < kunxis@student.unimelb.edu.au >, Ricardo Luo < yulail1@student.unimelb.edu.au >	Cc: Vlada Rozova < vlada.rozova@unimelb.edu.au >, Mike Conway < mike.conway@unimelb.edu.au >

Hi everyone,

Great to meet you all today. I wanted to introduce you to Dr. Mike Conway (cc'd here). As we mentioned, Vlada and Mike will be your contacts for the duration of the project.

Attached is the diagram that Vlada created to describe the main components of the software.

We will get you the Universal Indication List (UIL)

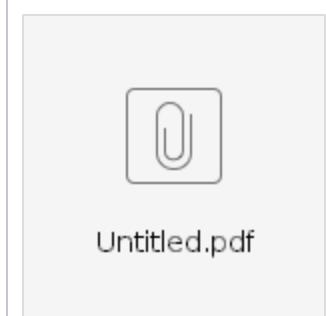
Meanwhile, here is a text file with some examples of reasons for prescription

Remember that all the information we share here is confidential and it should not be used for any other purpose.

Cheers

Daniel

2 attachments

	Untitled.pdf 49K
	ReasonExample.txt 4K

Chenyang Dong <doncd@student.unimelb.edu.au>

Fri, Mar 10, 2023 at 5:19 PM

To: Daniel Capurro <dcapurro@student.unimelb.edu.au>, Vlada Rozova <vlada.rozova@student.unimelb.edu.au>

Cc: Mike Conway <mike.conway@student.unimelb.edu.au>, KUNXI SUN <kunxis@student.unimelb.edu.au>, Hanyi Gao <hanyig1@student.unimelb.edu.au>, Yue Fei <yffei@student.unimelb.edu.au>, Ricardo Luo <yulaili@student.unimelb.edu.au>

Dear Daniel,

We would like to express our appreciation for your time to meet with us and discuss the project. Thank you for introducing us to Dr. Mike Conway. We also appreciate the diagram that Vlada created to describe the main components of the software and the text file with examples of reasons for prescription.

We will ensure that all the information shared with us remains confidential and will only be used for the purpose of this project.

Please let us know when we can expect to receive the Universal Indication List (UIL).

Thank you again for your assistance with this project.

Best regards,

Chenyang Dong

[Quoted text hidden]

2023-03-12(-16) Follow-up on Weekly Meeting Details and Scheduling

 THE UNIVERSITY OF MELBOURNE	Chenyang Dong < doncd@student.unimelb.edu.au >
COMP90082 Industry Project Follow-up on Weekly Meeting Details and Scheduling 8 messages	
Chenyang Dong < doncd@student.unimelb.edu.au >	Sun, Mar 12, 2023 at 11:06 PM
To: Vlada Rozova < vlada.rozova@student.unimelb.edu.au >, Mike Conway < mike.conway@student.unimelb.edu.au >	
Cc: Mauro Mello Jr < mauro.mellojr@student.unimelb.edu.au >, KUNXI SUN < kunxis@student.unimelb.edu.au >, Hanyi Gao < hanyig1@student.unimelb.edu.au >, Ricardo Luo < yulail1@student.unimelb.edu.au >, Yue Fei < yffei@student.unimelb.edu.au >	
<p>Dear Vlada and Mike,</p> <p>This is Chenyang Dong from Team BoxJelly. It was great meeting with Vlada during the kickoff meeting. As discussed, we would like to schedule weekly meetings going forward. We think it's a great idea to have 30-minute meetings per team and we are happy to meet in person. However, please note that two members of our team may not be able to join the meeting in person, so we will arrange for them to participate via Zoom.</p> <p>I wanted to follow up with you on this matter and discuss the details of our weekly meetings. Would it be possible to use a scheduling tool like When2Meet to determine the best time for everyone to meet? This would make scheduling our meetings much easier and more efficient. If so, this is the link, DI Meeting with Team BoxJelly - When2meet.</p> <p>Please let us know your thoughts on this matter, and if you have any questions or concerns, please do not hesitate to reach out to us.</p> <p>Thank you for your time and attention.</p> <p>Best regards,</p> <p>Chenyang Dong</p>	
Chenyang Dong < doncd@student.unimelb.edu.au >	Wed, Mar 15, 2023 at 9:35 AM
To: Vlada Rozova < vlada.rozova@student.unimelb.edu.au >, Mike Conway < mike.conway@student.unimelb.edu.au >	
Cc: Mauro Mello Jr < mauro.mellojr@student.unimelb.edu.au >, KUNXI SUN < kunxis@student.unimelb.edu.au >, Hanyi Gao < hanyig1@student.unimelb.edu.au >, Ricardo Luo < yulail1@student.unimelb.edu.au >, Yue Fei < yffei@student.unimelb.edu.au >	
<p>Dear Vlada and Mike</p> <p>I hope this email finds you well. I just wanted to follow up on my previous email regarding the weekly project meeting. As I haven't heard back from you yet, I was wondering if you had a chance to review my email and if you have any updates or preferences about the meeting.</p> <p>Thank you for your attention to this matter, and I look forward to hearing from you soon.</p> <p>Best Regards,</p> <p>Chenyang Dong</p> <p>[Quoted text hidden]</p>	
Vlada Rozova < vlada.rozova@student.unimelb.edu.au >	Wed, Mar 15, 2023 at 10:45 AM
To: Chenyang Dong < doncd@student.unimelb.edu.au >, Mike Conway < mike.conway@student.unimelb.edu.au >	
Cc: Mauro Mello Jr < mauro.mellojr@student.unimelb.edu.au >, KUNXI SUN < kunxis@student.unimelb.edu.au >, Hanyi Gao < hanyig1@student.unimelb.edu.au >, Ricardo Luo < yulail1@student.unimelb.edu.au >, Yue Fei < yffei@student.unimelb.edu.au >	

Hi Chenyang,

Mondays and Fridays after 11am would be the best for me to schedule weekly meetings. Mike, would you have time on either of these days? Once we have agreed on the time I can book a room at Melbourne Connect for those who would like to attend in person.

Kind regards,

Vlada

[Quoted text hidden]

Chenyang Dong <doncd@student.unimelb.edu.au>

Wed, Mar 15, 2023 at 12:02 PM

To: Vlada Rozova <vlada.rozova@unimelb.edu.au>

Cc: Mike Conway <mike.conway@unimelb.edu.au>, Mauro Mello Jr <mauro.mellojr@unimelb.edu.au>, KUNXI SUN <kunxis@student.unimelb.edu.au>, Hanyi Gao <hanyig1@student.unimelb.edu.au>, Ricardo Luo <yulail1@student.unimelb.edu.au>, Yue Fei <yffei@student.unimelb.edu.au>

Dear Vlada,

Thank you for your prompt response to my previous email. After consulting with our team members, we have identified Friday after 11am and before 3:15pm as the best time for our weekly project meetings. Alternatively, Monday could also work for us.

However, for this week's meeting, we kindly request that it be scheduled before 1:30pm due to a prior commitment.

Please let us know which day and time works best for you and Mike. We look forward to hearing from you soon.

Thank you very much!

Best regards,
Chenyang Dong

[Quoted text hidden]

Vlada Rozova <vlada.rozova@unimelb.edu.au>

Thu, Mar 16, 2023 at 12:58 PM

To: Chenyang Dong <doncd@student.unimelb.edu.au>

Cc: Mike Conway <mike.conway@unimelb.edu.au>, Mauro Mello Jr <mauro.mellojr@unimelb.edu.au>, KUNXI SUN <kunxis@student.unimelb.edu.au>, Hanyi Gao <hanyig1@student.unimelb.edu.au>, Ricardo Luo <yulail1@student.unimelb.edu.au>, Yue Fei <yffei@student.unimelb.edu.au>

Hi Chenyang,

I suggest we meet tomorrow at 11am and I will see if Mike can join as well. We can then decide whether this time slot works in the long-term. I have booked a meeting room at Melbourne Connect, otherwise, feel free to join via zoom (a calendar invitation is to follow).

Kind regards,

Vlada

[Quoted text hidden]

Chenyang Dong <doncd@student.unimelb.edu.au>

Thu, Mar 16, 2023 at 1:18 PM

To: Vlada Rozova <vlada.rozova@unimelb.edu.au>

Cc: Mike Conway <mike.conway@unimelb.edu.au>, Mauro Mello Jr <mauro.mellojr@unimelb.edu.au>, KUNXI SUN <kunxis@student.unimelb.edu.au>, Hanyi Gao <hanyig1@student.unimelb.edu.au>, Ricardo Luo <yulail1@student.unimelb.edu.au>, Yue Fei <yffei@student.unimelb.edu.au>

Dear Vlada,

Thank you for arranging the meeting. However, in the calendar invitation, it says that the room is 290-4-4101-Meeting room (8), which might suggest it is located on the 4th floor. Can you please confirm if this is the case?

I want to ensure I arrive at the correct location on time for our meeting tomorrow. Thank you for your help and clarification.

Best regards,

Chenyang Dong

From: Vlada Rozova <vlada.rozova@unimelb.edu.au>

Sent: Thursday, March 16, 2023 12:58:39 PM

To: Chenyang Dong <doncd@student.unimelb.edu.au>

Cc: Mike Conway <mike.conway@unimelb.edu.au>; Mauro Mello Jr <mauro.mellojr@unimelb.edu.au>; KUNXI SUN <kunxis@student.unimelb.edu.au>; Hanyi Gao <hanyig1@student.unimelb.edu.au>; Ricardo Luo <yulail1@student.unimelb.edu.au>; Yue Fei <yfei@student.unimelb.edu.au>

Subject: Re: COMP90082 Industry Project | Follow-up on Weekly Meeting Details and Scheduling

[Quoted text hidden]

Mike Conway <mike.conway@unimelb.edu.au>

Thu, Mar 16, 2023 at 2:03 PM

To: Chenyang Dong <doncd@student.unimelb.edu.au>, Vlada Rozova <vlada.rozova@unimelb.edu.au>

Cc: Mauro Mello Jr <mauro.mellojr@unimelb.edu.au>, KUNXI SUN <kunxis@student.unimelb.edu.au>, Hanyi Gao <hanyig1@student.unimelb.edu.au>, Ricardo Luo <yulail1@student.unimelb.edu.au>, Yue Fei <yfei@student.unimelb.edu.au>

Hi Folks – I can do 11 tomorrow. Thanks for organizing this. Rm 4101 is on the 4th floor.

Cheers

Mike

[Quoted text hidden]

Chenyang Dong <doncd@student.unimelb.edu.au>

Thu, Mar 16, 2023 at 2:20 PM

To: Mike Conway <mike.conway@unimelb.edu.au>, Vlada Rozova <vlada.rozova@unimelb.edu.au>

Cc: Mauro Mello Jr <mauro.mellojr@unimelb.edu.au>, KUNXI SUN <kunxis@student.unimelb.edu.au>, Hanyi Gao <hanyig1@student.unimelb.edu.au>, Ricardo Luo <yulail1@student.unimelb.edu.au>, Yue Fei <yfei@student.unimelb.edu.au>

Thank you Mike!

Looking forward to see you tomorrow.

Best regards,

Chenyang Dong

From: Mike Conway <mike.conway@unimelb.edu.au>

Sent: Thursday, March 16, 2023 2:03:40 PM

To: Chenyang Dong <doncd@student.unimelb.edu.au>; Vlada Rozova <vlada.rozova@unimelb.edu.au>

Cc: Mauro Mello Jr <mauro.mellojr@unimelb.edu.au>; KUNXI SUN <kunxis@student.unimelb.edu.au>; Hanyi Gao <hanyig1@student.unimelb.edu.au>; Ricardo Luo <yulail1@student.unimelb.edu.au>; Yue Fei <yfei@student.unimelb.edu.au>

[Quoted text hidden]

[Quoted text hidden]

2023-03-17 Information Update After Weekly Meeting #1

 THE UNIVERSITY OF MELBOURNE	Chenyang Dong < doncd@student.unimelb.edu.au >
Vlada Rozova < vlada.rozova@unimelb.edu.au >	Fri, Mar 17, 2023 at 2:24 PM
To: Chenyang Dong < doncd@student.unimelb.edu.au > Cc: Mike Conway < mike.conway@unimelb.edu.au >, Mauro Mello Jr < mauro.mellojr@unimelb.edu.au >, KUNXI SUN < kunxis@student.unimelb.edu.au >, Hanyi Gao < hanyig1@student.unimelb.edu.au >, Ricardo Luo < yulail1@student.unimelb.edu.au >, Yue Fei < yffei@student.unimelb.edu.au >, Daniel Capurro < dcapurro@unimelb.edu.au >	
<p>Hi team, Great meeting with you today and thanks for your update once progress. Below are a couple of points for your information:</p> <ul style="list-style-type: none">• Daniel has found out who is responsible for the Ontoserver license at Unimelb and has requested it on your behalf.• As I mentioned, I am trying to get a hold on the UIL and will update you as soon as we have access to it.• To our discussion on the dataset size: the initial dataset we can provide you with for the development would contain a few hundred rows. This is the data we will use to curate the mapping. Once we move into production the largest dataset will be ~2.5 million rows however there is always an option to process it in batches if needed. It would be good to still have the functionality to curate the mapping even on the large datasets.• For our project we will be using the Secure Research Environment (SRE) provided by the Unimelb. The resources are standard: 1TB disk space, 16GB RAM, 8 cores. There is an option to request additional resources if needed. Ideally we would like to emulate this environment to ensure the tool functions correctly once deployed. The 3 options I see are: a local windows machine, a windows-based container, Melbourne Research Cloud (or alternative solutions offered by Unimelb). Let me know if you need more information about the SRE set-up. <p>Would it be possible to move our meeting to Friday 10am? Otherwise, we can do 12-2pm.</p> <p>Kind regards, Vlada [Quoted text hidden]</p>	
Chenyang Dong < doncd@student.unimelb.edu.au >	Fri, Mar 17, 2023 at 3:46 PM
To: Vlada Rozova < vlada.rozova@unimelb.edu.au >, Mike Conway < mike.conway@unimelb.edu.au > Cc: Mauro Mello Jr < mauro.mellojr@unimelb.edu.au >, KUNXI SUN < kunxis@student.unimelb.edu.au >, Hanyi Gao < hanyig1@student.unimelb.edu.au >, Ricardo Luo < yulail1@student.unimelb.edu.au >, Yue Fei < yffei@student.unimelb.edu.au >, Daniel Capurro < dcapurro@unimelb.edu.au >	
<p>Dear Vlada and Mike,</p> <p>Thank you for your message and for providing me with the updates on your project. It's great meeting you in person this morning. It sounds like there has been progress on several fronts.</p> <p>Regarding the Ontoserver license, it's great to hear that Daniel was able to identify who is responsible for it and has requested it for us. As for the UIL, I hope you are able to obtain access to it soon and I look forward to hearing your update on this. If possible, could you please give me a rough estimate of when we might expect to have access to the Ontoserver license and UIL? This will help us plan our next steps accordingly.</p> <p>Regarding the dataset size, it's helpful to have an idea of what the initial dataset will look like and the size of the largest dataset you will be using in production. It's good to hear that there will be the option to process the large dataset in batches if needed, and it's important to have the functionality to curate the mapping even on the larger datasets.</p> <p>It's also good to know that you will be using the Secure Research Environment (SRE) provided by Unimelb, and that the resources are standard with the option to request additional resources if needed. It would be helpful to have more information later about the SRE set-up to determine which option might be the best fit.</p> <p>Regarding the meeting time, our team can certainly arrange for the meeting to be moved to Friday at 10am as you requested. I will update my calendar accordingly.</p> <p>Thank you again for the update and I look forward to hearing more about the project.</p> <p>Best regards,</p> <p>Chenyang Dong [Quoted text hidden]</p>	

2023-03-20(-23) Access to UIL

 THE UNIVERSITY OF MELBOURNE	Chenyang Dong < doncd@student.unimelb.edu.au >
Vlada Rozova < vlada.rozova@unimelb.edu.au >	Mon, Mar 20, 2023 at 12:48 PM
To: Chenyang Dong < doncd@student.unimelb.edu.au > Cc: Mike Conway < mike.conway@unimelb.edu.au >, Mauro Mello Jr < mauro.mellojr@unimelb.edu.au >, KUNXI SUN < kunxis@student.unimelb.edu.au >, Hanyi Gao < hanyig1@student.unimelb.edu.au >, Ricardo Luo < yulail1@student.unimelb.edu.au >, Yue Fei < yffei@student.unimelb.edu.au >, Daniel Capurro < dcapurro@unimelb.edu.au >	
Hi Chenyang, To arrange your access to the UIL, could you please send me the phone numbers of all team members? Your phone numbers and email addresses will be used to set up your accounts so you can access the UIL.	
Thanks, [Quoted text hidden] Vlada	
Chenyang Dong < doncd@student.unimelb.edu.au >	Mon, Mar 20, 2023 at 1:19 PM
To: Vlada Rozova < vlada.rozova@unimelb.edu.au > Cc: Mike Conway < mike.conway@unimelb.edu.au >, Mauro Mello Jr < mauro.mellojr@unimelb.edu.au >, KUNXI SUN < kunxis@student.unimelb.edu.au >, Hanyi Gao < hanyig1@student.unimelb.edu.au >, Ricardo Luo < yulail1@student.unimelb.edu.au >, Yue Fei < yffei@student.unimelb.edu.au >, Daniel Capurro < dcapurro@unimelb.edu.au >	
Hi Vlada, These are phone numbers and email addresses of our team below. Chenyang Dong 0401783575 doncd@student.unimelb.edu.au Hanyi Gao 0478382679 hanyig1@student.unimelb.edu.au Yue Fei 0414898228 yffei@student.unimelb.edu.au Kunxi Sun 0421635666 kunxis@student.unimelb.edu.au Yulai Luo +86 15771016651 yulail1@student.unimelb.edu.au Thank you for setting up our accounts! Best Regards, Chenyang Dong	
From: Vlada Rozova < vlada.rozova@unimelb.edu.au > Sent: Monday, March 20, 2023 12:48:10 PM To: Chenyang Dong < doncd@student.unimelb.edu.au > Cc: Mike Conway < mike.conway@unimelb.edu.au >; Mauro Mello Jr < mauro.mellojr@unimelb.edu.au >; KUNXI SUN < kunxis@student.unimelb.edu.au >; Hanyi Gao < hanyig1@student.unimelb.edu.au >; Ricardo Luo < yulail1@student.unimelb.edu.au >; Yue Fei < yffei@student.unimelb.edu.au >; Daniel Capurro < dcapurro@unimelb.edu.au > [Quoted text hidden]	
[Quoted text hidden]	

Vlada Rozova <vlada.rozova@unimelb.edu.au> Mon, Mar 20, 2023 at 1:28 PM

To: Chenyang Dong <doncd@student.unimelb.edu.au>

Excellent, thanks for the prompt response.
Kind regards,
[Quoted text hidden]
Vlada

Vlada Rozova <vlada.rozova@unimelb.edu.au>

Thu, Mar 23, 2023 at 5:45 PM

To: Chenyang Dong <doncd@student.unimelb.edu.au>

Hi Chenyang,
That's great news.

In case you had difficulties accessing the UIL, there were some technical issues that have now been resolved, so you should be able to see the full list of indications.

Kind regards,
[Quoted text hidden]
Vlada

Chenyang Dong <doncd@student.unimelb.edu.au>

Thu, Mar 23, 2023 at 5:58 PM

To: Vlada Rozova <vlada.rozova@unimelb.edu.au>

Dear Vlada,
Thank you so much for telling us. We were about to email you to ask about the UIL since it was empty. This will be a lot helpful for us.

Best regards,
Chenyang
[Quoted text hidden]

2023-03-23 Access to Ontoserver

 THE UNIVERSITY OF MELBOURNE	Chenyang Dong < doncd@student.unimelb.edu.au >
Access to Ontoserver 4 messages	
Vlada Rozova < vlada.rozova@unimelb.edu.au >	Thu, Mar 23, 2023 at 3:05 PM
To: Lang Cao < lancao@student.unimelb.edu.au >, Chenyang Dong < doncd@student.unimelb.edu.au > Cc: Mauro Mello Jr < mauro.mellojr@unimelb.edu.au >, Daniel Capurro < dcapurro@unimelb.edu.au >, Mike Conway < mike.conway@unimelb.edu.au >	
<p>Hi team representatives, Below are the instructions on how to access Ontoserver: You need to:</p> <ul style="list-style-type: none">- Establish an account with quay.io at https://quay.io- Obtain an appropriate Licence:- Within Australia, email help@digitalhealth.gov.au to request a (free) Ontoserver licence. ADHA will then arrange authorisation for your quay.io account. <p>From this they need to set up a quay.io account. Then ADHA need to authorise their accounts (which I have given permission to) So they should set up their accounts send their quay.io account details to help@digitalhealth.gov.au and cc ward.r@unimelb.edu.au and dcapurro@unimelb.edu.au. That should do it"</p> <p>Please let me know if you have any problems downloading the software.</p> <p>Kind regards, Vlada</p>	
Chenyang Dong < doncd@student.unimelb.edu.au >	Thu, Mar 23, 2023 at 5:25 PM
To: Vlada Rozova < vlada.rozova@unimelb.edu.au >	
<p>Dear Vlada,</p> <p>Thank you for your information. We have received confirmation from the Australian Digital Health Agency (ADHA) regarding our approval from the Ontoserver representative at the University of Melbourne. Furthermore, CSIRO has successfully whitelisted our accounts, granting us access to the Ontoserver repository.</p> <p>We appreciate your support and cooperation throughout this process.</p> <p>Thank you very much!</p> <p>Best regards, Chenyang Dong [Quoted text hidden]</p>	

2023-03-27 Providing the Comparison Table Between Mapping Tools

C

Chenyang Dong 1 day ago

Hi, Vlada. [@Vlada Rozova](#) This is the google doc link of the comparison table between Ontoserver and any other alternative tools we showed you last time.

https://docs.google.com/document/d/1YxyfNaFe3WUdo99jRaPoTyBRRp_AV6BNAq-qRR164DQ/edit?usp=sharing (can be accessed with unimelb email)

G Suite Document ▾



Mapping Tools

Google Doc

	Ontoserver	3M HDD	Apelon DTS	Clinical Architectur	e Symedical	HealthTerm
Support SNOMED CT	Yes	Yes	Yes	Yes	Yes	Yes
Mapping	Yes	Yes	Yes	Yes	Yes	Yes

2 replies



Vlada Rozova 1 day ago

Great, thanks for sharing this!

C

Chenyang Dong 1 day ago

No worries :)

2023-04-03 Adjustment of Weekly Meeting Due to Good Friday

 THE UNIVERSITY OF MELBOURNE	Chenyang Dong < doncd@student.unimelb.edu.au >
COMP90082 (2023S1)/DI: Adjustment of Weekly Meeting Due to Good Friday 2 messages	
Chenyang Dong < doncd@student.unimelb.edu.au >	Sat, Apr 1, 2023 at 3:43 PM
<p>To: Vlada Rozova <vlada.rozova@unimelb.edu.au>, Mike Conway <mike.conway@unimelb.edu.au> Cc: Hanyi Gao <hanyig1@student.unimelb.edu.au>, KUNXI SUN <kunxis@student.unimelb.edu.au>, Yue Fei <yffei@student.unimelb.edu.au>, Ricardo Luo <yulail1@student.unimelb.edu.au>, Mauro Mello Jr <mauro.mellojr@unimelb.edu.au>, Daniel Capurro <dcapurro@unimelb.edu.au>, brian.hur@gmail.com</p>	
<p>Dear Vlada and Mike,</p> <p>I hope this email finds you well. I wanted to follow up on our discussion during our last meeting regarding our meeting next week. As we previously discussed, next Friday is Good Friday, therefore we need to adjust our meeting time.</p> <p>We have attached an image outlining our team's availability for the upcoming week, including the days and times that we are available for the meeting.</p> <p>In addition, I would like to mention that if we arrange the meeting for early next week, for example on Monday, there may not be much of an update from our team as we would have just had our weekly meeting on Friday.</p> <p>Please let us know if any of the available times work for you next week. If none of them work for you, we can certainly schedule the meeting for the following week. However, I also wanted to note that the week after next is a non-teaching week for our team, so we would like to confirm whether there will be any break on your end during that time. However, we are still available to hold a meeting during that week if that works for you.</p> <p>Thank you for your understanding. We'll continue our conversation during the next business day and hope you have a relaxing weekend.</p> <p>Best regards, Chenyang Dong</p> <p> availability.jpeg 70K</p>	
<p>Vlada Rozova <vlada.rozova@unimelb.edu.au></p> <p>Mon, Apr 3, 2023 at 9:02 AM</p> <p>To: Chenyang Dong <doncd@student.unimelb.edu.au> Cc: Mike Conway <mike.conway@unimelb.edu.au>, Hanyi Gao <hanyig1@student.unimelb.edu.au>, KUNXI SUN <kunxis@student.unimelb.edu.au>, Yue Fei <yffei@student.unimelb.edu.au>, Ricardo Luo <yulail1@student.unimelb.edu.au>, Mauro Mello Jr <mauro.mellojr@unimelb.edu.au>, Daniel Capurro <dcapurro@unimelb.edu.au>, Brian Hur <brian.hur@gmail.com></p> <p>Hi Chenyang,</p> <p>Thanks for the reminder. Happy to meet later this week. My preference would be for Thursday, I will be on-site at Melbourne Connect after 12:30pm. I will send an invitation for 1pm to put it in our calendars, hopefully others can join too.</p> <p>Kind regards, Vlada</p> <p>[Quoted text hidden] > <availability.jpeg></p>	

2023-04-04 Request for Information on SRE Platform

 THE UNIVERSITY OF MELBOURNE	Chenyang Dong < doncd@student.unimelb.edu.au >
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COMP90082 (2023S1)/DI: Request for Information on SRE Platform
7 messages

Chenyang Dong < doncd@student.unimelb.edu.au >	Tue, Apr 4, 2023 at 6:02 PM
<p>To: Vlada Rozova <vlada.rozova@unimelb.edu.au></p> <p>Cc: Mike Conway <mike.conway@unimelb.edu.au>, Hanyi Gao <hanyig1@student.unimelb.edu.au>, KUNXI SUN <kunxis@student.unimelb.edu.au>, Yue Fei <yffei@student.unimelb.edu.au>, Ricardo Luo <yulail1@student.unimelb.edu.au>, Mauro Mello Jr <mauro.mellojr@unimelb.edu.au>, Daniel Capurro <dcapurro@unimelb.edu.au></p>	
<p>Dear Vlada,</p> <p>I hope this email finds you well. As you suggested, we have compiled a list of questions that we would appreciate if you could forward to the appropriate team members who can assist us throughout the deployment process using the Secure Research Environment (SRE) platform.</p> <ul style="list-style-type: none">- Accessing the SRE Platform: What are the steps required to gain access to the SRE platform, along with any authentication or authorization procedures that need to be followed?- Infrastructure System: We would like to understand the system currently in place for hosting applications on the SRE platform. This will help us better align our development efforts with the existing infrastructure.- Operating System Availability: Can you confirm if the SRE platform currently runs on-prem and offers a Windows 2019 Server VDI through Citrix Workspace, with plans to offer Linux desktops as part of the next phase (as per a response from one of my professors who contacted someone about this)? If so, kindly provide us with details on the available distributions and any limitations or requirements we should be aware of. Additionally, all members of our team are using MacBook devices. Will this be an issue, and if so, how can we emulate the environment on our own devices?- Support Contacts: Kindly provide us with the contact information for the appropriate team members who can assist us throughout the deployment process. This will enable us to quickly address any concerns or issues that may arise. <p>We appreciate your assistance in providing us with the requested information. This will help us ensure a successful deployment while following the best practices and guidelines set forth by the SRE support team.</p> <p>Thank you for your time and support. We look forward to hearing back from you soon.</p> <p>Best regards,</p> <p>Chenyang Dong</p>	

Vlada Rozova < vlada.rozova@unimelb.edu.au >	Thu, Apr 6, 2023 at 9:58 AM
<p>To: Hywel Stoakes <hstoakes@unimelb.edu.au></p> <p>Cc: Chenyang Dong <doncd@student.unimelb.edu.au>, Mike Conway <mike.conway@unimelb.edu.au>, Daniel Capurro <dcapurro@unimelb.edu.au></p>	

Dear Hywel,

As I mentioned previously, we have two teams of software engineering students working on our project, particularly, looking into leveraging CSIRO's Ontoserver to map short strings of text to SNOMED-CT. The teams' will be working with us until June.

To make sure we can implement their solution on the SRE, we have a couple of questions about the environment we were hoping you could answer:

1. My understanding is that gaining access to the SRE might take some time. Could you please let us know if this is feasible at all or if we should look for a way to emulate the SRE environment elsewhere, e.g., Melbourne Research Cloud?

2. Could you please provide us with some information about the infrastructure and the operating system? Our understanding is that the SRE platform currently runs on-prem and offers a Windows 2019 Server VDI through Citrix Workspace.

Kind regards,

Vlada

Begin forwarded message:

[Quoted text hidden]

Chenyang Dong <doncd@student.unimelb.edu.au>

Fri, Apr 7, 2023 at 3:34 AM

To: Hywel Stoakes <hstoakes@unimelb.edu.au>

Cc: Mike Conway <mike.conway@unimelb.edu.au>, Daniel Capurro <dcapurro@unimelb.edu.au>, Vlada Rozova <vlada.rozova@unimelb.edu.au>, Hanyi Gao <hanyig1@student.unimelb.edu.au>, KUNXI SUN <kunxis@student.unimelb.edu.au>, Yue Fei <yffei@student.unimelb.edu.au>, Ricardo Luo <yulail1@student.unimelb.edu.au>, Mauro Mello Jr <mauro.mellojr@unimelb.edu.au>

Dear Hywel,

In addition to the previous email by Vlada, I wanted to provide you with some additional information that may be helpful. I have checked the available images on Melbourne Research Cloud (MRC) and found that MRC provides Windows Server 2016 and 2022 as the screenshot attached. I'm not sure if these differences would cause any issues or limitations for our project if we use it to emulate the environment on SRE.

Thank you for your time and assistance.

Best Regards,

Chenyang Dong

[Quoted text hidden]

 **MRC windows server version.png**
56K

Vlada Rozova <vlada.rozova@unimelb.edu.au>

Fri, Apr 21, 2023 at 10:35 AM

To: Hywel Stoakes <hstoakes@unimelb.edu.au>

Cc: Chenyang Dong <doncd@student.unimelb.edu.au>, Mike Conway <mike.conway@unimelb.edu.au>, Daniel Capurro <dcapurro@unimelb.edu.au>, Hanyi Gao <hanyig1@student.unimelb.edu.au>, KUNXI SUN <kunxis@student.unimelb.edu.au>, Yue Fei <yffei@student.unimelb.edu.au>, Ricardo Luo <yulail1@student.unimelb.edu.au>, Mauro Mello Jr <mauro.mellojr@unimelb.edu.au>

Dear Hywel,

Just following up on the previous email about the best ways for our software engineers to emulate the SRE environment.

Kind regards,

Vlada

[Quoted text hidden]

[Quoted text hidden]

<MRC windows server version.png>

Hywel Stoakes <hstoakes@unimelb.edu.au>

Fri, Apr 21, 2023 at 4:58 PM

To: Vlada Rozova <vlada.rozova@unimelb.edu.au>

Cc: Chenyang Dong <doncd@student.unimelb.edu.au>, Mike Conway <mike.conway@unimelb.edu.au>, Daniel Capurro <dcapurro@unimelb.edu.au>, Hanyi Gao <hanyig1@student.unimelb.edu.au>, KUNXI SUN <kunxis@student.unimelb.edu.au>, Yue Fei <yfei@student.unimelb.edu.au>, Ricardo Luo <yulail1@student.unimelb.edu.au>, Mauro Mello Jr <mauro.mellojr@unimelb.edu.au>

Hi Vlada, hi Chenyang,

Regarding emulating the SRE environment elsewhere, we wouldn't be able to guarantee that anything you develop outside of the environment would be able to be exactly replicated within the SRE. You may be able to achieve what you want by working within the SRE directly? I think the MRC would be a very good choice for developing a workflow that involved multiple developers – we could not transfer data directly between the two platforms however.

As mentioned previously, our VMs run Windows 2019 Server (On Prem - Delivered via Citrix Workspace). I have attached a guide from Microsoft regarding the differences between Server 2019 and 2016. As far as I know, the changes in 2022 are mainly supporting Azure and Cloud Services but I can make some further enquiries. With up-to-date patching I would hope that the two versions would be similar from a base functionality pov, particularly if you were not relying on cloud-connected functionality?

One issue to keep in mind is that we treat scripts developed outside of the environment as externally supplied software and there is an involved review procedure for approving new software installations.

It may be possible however to set up a VM in our Test Tenancy with no data uploaded. I would need to get advice as to whether this is currently possible. This would also have the same review stipulations but would guarantee that you were working on the same environment. Regarding connections to CSIRO's Ontoserver to map short strings of text to SNOMED-CT, we may not be able to provide a continuous connection to this endpoint and would possibly need this to be restricted to allocated time windows. Please advise if this would be acceptable?

I hope that some of this information is helpful for your planning – In terms of next steps in provisioning, Once we know the requirements you are after that machine can be provisioned within a week. After that we would need to consult with you further regarding the finalisation of the software installations (particularly any python (Anaconda) virtual environments you would need or specific package installs). Please submit any requests via (<http://go.unimelb.edu.au/53fe>) and I look forward to hearing from you.

Many thanks,

Hywel

Dr Hywel Stoakes (he/him) | Senior Support Officer

The Secure Research Environment

Research Data Management Program,

Level 3, 11 Barry St, Carlton

hstoakes@unimelb.edu.au

I acknowledge the Traditional Owners of the land on which I work, The Wurundjeri and Djaara of the Kulin Nation and pay my respects to Elders, past, present and emerging.

[Quoted text hidden]

 [Windows_Server_2019_Feature_Comparison_Guide_EN_US.pdf](#)
273K

Vlada Rozova <vlada.rozova@unimelb.edu.au>

Mon, Apr 24, 2023 at 4:41 PM

To: Hywel Stoakes <hstoakes@unimelb.edu.au>

Cc: Chenyang Dong <doncd@student.unimelb.edu.au>, Mike Conway <mike.conway@unimelb.edu.au>, Daniel Capurro <dcapurro@unimelb.edu.au>, Hanyi Gao <hanyig1@student.unimelb.edu.au>, KUNXI SUN <kunxis@student.unimelb.edu.au>, Yue Fei <yffei@student.unimelb.edu.au>, Ricardo Luo <yulail1@student.unimelb.edu.au>, Mauro Mello Jr <mauro.mellojr@unimelb.edu.au>

Dear Hywel,

Thank you for such a detailed response. I will let the software engineering student teams review this information and decide on how they want to proceed.

Regarding the CSIRO's Ontoserver, my understanding is that it is possible to run a local instance without needing to connect to a remote server. Installing Ontoserver should be relatively straightforward and hopefully will not create problems.

Kind regards,

Vlada

On 21 Apr 2023, at 4:58 pm, Hywel Stoakes <hstoakes@unimelb.edu.au> wrote:

<Windows_Server_2019_Feature_Comparison_Guide_EN_US.pdf>

Chenyang Dong <doncd@student.unimelb.edu.au>

Wed, Apr 26, 2023 at 3:42 AM

To: Hywel Stoakes <hstoakes@unimelb.edu.au>

Cc: Vlada Rozova <vlada.rozova@unimelb.edu.au>, Mike Conway <mike.conway@unimelb.edu.au>, Daniel Capurro <dcapurro@unimelb.edu.au>, Hanyi Gao <hanyig1@student.unimelb.edu.au>, KUNXI SUN <kunxis@student.unimelb.edu.au>, Yue Fei <yfei@student.unimelb.edu.au>, Ricardo Luo <yulail1@student.unimelb.edu.au>, Mauro Mello Jr <mauro.mellojr@unimelb.edu.au>

Dear Hywel,

I hope you had a wonderful public holiday. Thank you for the detailed information. Regarding to them, our team has a few questions to clarify some points:

1. Could you please provide more explanation about "setting up a VM in our Test Tenancy with no data uploaded"? What does "with no data uploaded" mean? And yes, if possible, it would be extremely helpful if you are able to provide our team at this stage to have an instance based in Australia to develop with.
2. Is there any update on whether it is better to use Windows Server 2016, which is more similar to 2019, or to use Windows Server 2022, if MRC is possible to emulate the environment?
3. Regarding the review stipulations, do these occur continuously as we require, for example, new packages in the virtual environment, or are they periodic?

4. We can set up the Ontoserver locally, so that shouldn't be a problem hopefully.

We are looking forward to your response.

Best regards,

Chenyang Dong

[Quoted text hidden]

2023-04-14 Change of Mapping Requirements

<https://di-boxjelly.slack.com/archives/C04UNPKJ1V2/p1681435764078679>

Vlada:

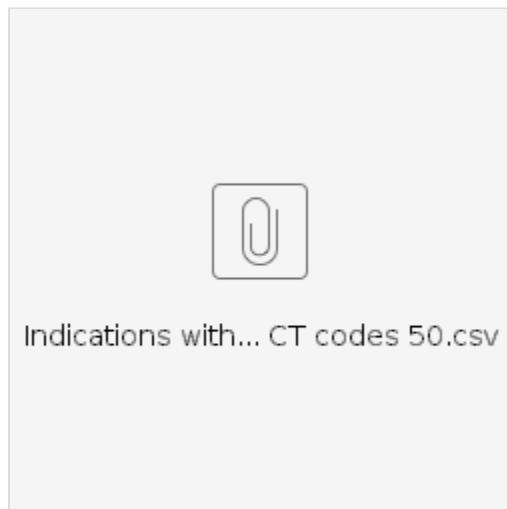
I had a think about the edge cases we discussed last time, here are the 4 scenarios I can think of:

1. Raw text maps to multiple SNOMED CT concepts -> I think the best thing to do is calculate [lexicographical edit distance](#) and pick the closest candidate.
2. Raw text does not map to any SNOMED CT concept -> Leave blank and flag for manual review.
3. Raw text maps to only one SNOMED CT concept, but incorrectly -> we need some metric to pick those out, possibly the edit distance as well.
4. Raw text maps to only one SNOMED CT concept and the mapping is correct -> check if it corresponds to any of the UIL entries.

A couple of things to note about the UIL:

1. Indication names do not necessarily correspond to SNOMED CT concepts.
2. Each indication has been mapped to the closest SNOMED CT concept but we are still waiting for the access to those codes.

I put together a short list with some UIL entries and the corresponding SNOMED CT codes. Note that indications have different semantic tags (most are disorders but there are also findings, procedures, organisms). I suggest you use this list instead of the UIL while we are waiting for the codes to be released. Once you have mapped the raw text to a SNOMED CT concept you can calculate the distance from this concept to each of the UIL entries to determine the closest match. [This paper](#) does this using the embedding from [this paper](#). Happy to discuss this approach in more detail at our next meeting.



2023-04-28 Apply for Melbourne Research Cloud (MRC) Instance

 THE UNIVERSITY OF MELBOURNE	Chenyang Dong < doncd@student.unimelb.edu.au >
COMP90082 (2023S1)/DI: Apply for Melbourne Research Cloud (MRC) Instance 2 messages	
Chenyang Dong < doncd@student.unimelb.edu.au >	Fri, Apr 28, 2023 at 11:57 AM
To: Mike Conway < mike.conway@unimelb.edu.au >	
Cc: Vlada Rozova < vlada.rozova@unimelb.edu.au >, Hanyi Gao < hanyig1@student.unimelb.edu.au >, KUNXI SUN < kunxis@student.unimelb.edu.au >, Yue Fei < yffei@student.unimelb.edu.au >, Ricardo Luo < yulail1@student.unimelb.edu.au >, Mauro Mello Jr < mauro.mellojr@unimelb.edu.au >	
<p>Dear Mike,</p> <p>Thank you for meeting with us today. As we have just discussed on the application of MRC instance, I have submitted a new project application and was hoping to request your assistance in reviewing and granting us access.</p> <p>Thank you very much!</p> <p>Best regards,</p> <p>Chenyang Dong</p>	
Mike Conway < mike.conway@unimelb.edu.au >	Fri, Apr 28, 2023 at 12:15 PM
To: Chenyang Dong < doncd@student.unimelb.edu.au >	
Cc: Vlada Rozova < vlada.rozova@unimelb.edu.au >, Hanyi Gao < hanyig1@student.unimelb.edu.au >, KUNXI SUN < kunxis@student.unimelb.edu.au >, Yue Fei < yffei@student.unimelb.edu.au >, Ricardo Luo < yulail1@student.unimelb.edu.au >, Mauro Mello Jr < mauro.mellojr@unimelb.edu.au >	

Thanks Chenyang – I'll keep an eye out for this and let you know when I've approved it.

Cheers

Mike

From: Chenyang Dong <doncd@student.unimelb.edu.au>

Date: Friday, 28 April 2023 at 11:58 am

To: Mike Conway <mike.conway@unimelb.edu.au>

Cc: Vlada Rozova <vlada.rozova@student.unimelb.edu.au>, Hanyi Gao <hanyig1@student.unimelb.edu.au>, KUNXI SUN <kunxis@student.unimelb.edu.au>, Yue Fei <yfei@student.unimelb.edu.au>, Ricardo Luo <yulail1@student.unimelb.edu.au>, Mauro Mello Jr <mauro.mellojr@unimelb.edu.au>

Subject: COMP90082 (2023S1)/DI: Apply for Melbourne Research Cloud (MRC) Instance

Dear Mike,

Thank you for meeting with us today. As we have just discussed on the application of MRC instance, I have submitted a new project application and was hoping to request your assistance in reviewing and granting us access.

Thank you very much!

Best regards,

Chenyang Dong

Communication with Supervisor

- 2023-03-08 Arrange Team Meeting #1
- 2023-03-09 Note for Client Contact
- 2023-03-13(-15) Weekly Project Update Meeting and Ontoserver License Issue
- 2023-03-14 Advice on Important Areas For the Project
- 2023-03-15 Protocol for naming any and all messages in projects
- 2023-03-16 Advice on Communication and Preferred Name
- 2023-03-17 Weekly Team Meeting #01
- 2023-04-20 On Resuming Weekly Status Update Meetings

2023-03-08 Arrange Team Meeting #1

 THE UNIVERSITY OF MELBOURNE	Chenyang Dong < dondc@student.unimelb.edu.au >
COMP90082 (2023S1)/DI: Team meeting #01 1 message	
Mauro Mello Jr < mauro.mellojr@unimelb.edu.au >	Wed, Mar 8, 2023 at 4:07 PM
To: Mauro Mello Jr < mauro.mellojr@unimelb.edu.au >	

Dear all in project **Digital Health** (DI), project teams **BoxJelly** and **RedBack**—greetings!

Let's have our first one-hour **e-meeting this Thursday 09 or Friday 10/03/2023**.

- **Action:** Visit When2Meet — <https://www.when2meet.com/?19108697-d2Vmb> — and **register your availability no later than 13:00 on Thursday 09/03/2023**. I will send a link to a Zoom meeting for the time most participants are available at least one hour before the meeting starts.

Your camera must be on and your microphone muted, and you should use your full name for your screen name. If you have a preferred name, list it between brackets (e.g., Johannes (John) Augustus von Seitenwechselverfarung).

Review the tentative meeting agenda below the fold. If you have any specific items to be discussed during the meeting, reply to this message.

Regards,

Mauro Mello Jr
Supervisor, COMP90082 Software Project (2023S1)

Proposed agenda for meeting 01 | 2023-03-09(10) v1.0.0 (1)

1. Introduction

- Getting to know each other
 - Our approach for working together this semester
-

2. Your client

- Getting to know your client
 - Communicating with your client (when, how often, how, where)
 - Etiquette for meetings
 - cc'ing me in every communication with your client
 - Documenting meetings with client
-

3. Your product and the project that will create it

- Product x project — know your product well and set up a better project
 - The four W's and one H: What is it, When is it needed, Where is it needed, How much...
 - A neglected W: Why is it needed?
 - Milestones that you know (check the major dates presented by Eduardo in the lectures and available on the LMS/Canvas)
 - Funding for your project
 - Getting things done — what needs to be done, who does what, when to do what needs doing, where the doing is done
 - Keeping track of everything that is happening
 - Your internal meetings
 - Our weekly meetings
-

4. Roles

- Project roles
 - Minimum roles to have as a starting point (e.g., product owner, scrum master)
 - Collaborate with, support and back each other up!
 - Communicating with me, the sponsor and the team (as well as with program coordinator and lecturer)
-

5. Any other business

- Any other business
- =====

2023-03-09 Note for Client Contact

 THE UNIVERSITY OF MELBOURNE	Chenyang Dong < dondc@student.unimelb.edu.au >
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COMP90082 (2023S1)/DI: (1) First client contact must involve both teams, (2) during business hours
1 message

Mauro Mello Jr <mauro.mellojr@unimelb.edu.au>

Thu, Mar 9, 2023 at 7:53 PM

To: Mauro Mello Jr <mauro.mellojr@unimelb.edu.au>

Hi all—

As there are two teams allocated to the project **Digital Health (DI)**, all team members in *both* teams should attend the first meeting with the client. You should not expect the client to have more than one kickoff meeting to resolve how to work together. It means that you have to coordinate a common message to be sent or, if two are sent, that they share the same dates (and, if via Zoom, the same link).

Communication between teams is essential—coordinate your actions for improved performance and reduced impact on the client.

Also, clients should not be invited to meetings on weekends. Meetings with clients should be limited to normal business hours (unless otherwise explicitly discussed and agreed to with them).

Regards,

Mauro Mello Jr
Supervisor, COMP90082 (2023S1)

2023-03-13(-15) Weekly Project Update Meeting and Ontoserver License Issue

 THE UNIVERSITY OF MELBOURNE	Chenyang Dong < doncd@student.unimelb.edu.au >
COMP90082 Industry Project Weekly project update meeting and Ontoserver License Issue 3 messages	
Chenyang Dong < doncd@student.unimelb.edu.au >	Mon, Mar 13, 2023 at 4:11 PM
To: Mauro Mello Jr < mauro.mellojr@unimelb.edu.au > Cc: KUNXI SUN < kunxis@student.unimelb.edu.au >, Hanyi Gao < hanyig1@student.unimelb.edu.au >, Ricardo Luo < yulail1@student.unimelb.edu.au >, Yue Fei < yfwei@student.unimelb.edu.au >	
<p>Dear Mr.Mello,</p> <p>This is Chenyang Dong from Team BoxJelly. I hope this email finds you well. As we are moving forward with the Digital Health project, I would like to propose that we schedule weekly meetings to update you on the progress, discuss any requirements from the client, and address any issues related to the project.</p> <p>Additionally, there is an issue that has come up regarding the use of Ontoserver for the project. As you may know, the client has requested that one of the teams use Ontoserver, while the other team uses alternative methods. However, we have received a message from the other team indicating that they may also want to use Ontoserver and have emailed you for a license from the university. Our team would also like to use this option, and we have been applying for a license personally since last week. We also mentioned this to the client in the first kickoff meeting as well.</p> <p>In light of this issue, I would appreciate it if we could discuss the use of Ontoserver during our weekly meeting and determine the best course of action moving forward.</p> <p>For the meeting, I suggest that we can schedule for half an hour every week, which should give us ample time to go through the updates and any issues that need to be addressed. Please let us know your availability, or if you prefer, we can use When2Meet to schedule the meetings - DI Meeting with Team BoxJelly - When2meet.</p> <p>Our proposed agenda items for this meeting are as follows:</p> <ul style="list-style-type: none">- Review of progress made during the previous week- Discussion of any issues or roadblocks encountered- Review of upcoming tasks and deadlines- Review of any feedback from the client- Any other business <p>Please let me know if there are any other specific agenda items that you would like to add to the meeting.</p> <p>Thank you for your time and support in this project. I look forward to our meeting.</p> <p>Best regards, Chenyang Dong</p>	
Chenyang Dong < doncd@student.unimelb.edu.au >	Wed, Mar 15, 2023 at 9:29 AM
To: Mauro Mello Jr < mauro.mellojr@unimelb.edu.au > Cc: KUNXI SUN < kunxis@student.unimelb.edu.au >, Hanyi Gao < hanyig1@student.unimelb.edu.au >, Ricardo Luo < yulail1@student.unimelb.edu.au >, Yue Fei < yfwei@student.unimelb.edu.au >	
<p>Dear Mr. Mello,</p> <p>I hope this email finds you well. I just wanted to follow up on my previous email regarding the weekly project meeting and the Ontoserver license request. As I haven't heard back from you yet, I was wondering if you had a chance to review my email and if you have any updates or preferences about the frequency of the meeting.</p> <p>Thank you for your attention to this matter, and I look forward to hearing from you soon.</p> <p>Best Regards, Chenyang Dong [Quoted text hidden]</p>	
Mauro Mello Jr < mauro.mellojr@unimelb.edu.au >	Wed, Mar 15, 2023 at 3:16 PM

To: Chenyang Dong <doncd@student.unimelb.edu.au>
Cc: KUNXI SUN <kunxis@student.unimelb.edu.au>, Hanyi Gao <hanyig1@student.unimelb.edu.au>, Ricardo Luo <yulail1@student.unimelb.edu.au>, Yue Fei <yffei@student.unimelb.edu.au>

Hi Chenyang—
Thanks for the reminder.

Right now I can address the first item, based on a conversation with Eduardo:

If clients want specific technologies, platforms, devices and tools to be used they must provide them (e.g., AWS, VR headsets, smart watches and phones, tablets). This also includes creating paid developer accounts on application platforms (Android, Apple, Google, etc.). Project team members should not themselves pay for any expenditures required or mandated by clients, and should always research and discuss alternative solutions.

As supervisors we do not have the authority from the University of Melbourne, nor the responsibility, for making these decisions.

We can discuss this in our weekly team meeting (will notify you on this shortly).

Regards,

Mauro Mello Jr
Supervisor

[Quoted text hidden]

2023-03-14 Advice on Important Areas For the Project



Chenyang Dong <dondc@student.unimelb.edu.au>

COMP90082 (2023S1)/DE + DI + RE: (1) Review the subject handbook. (2) An approach to defining your deliverables
1 message

Mauro Mello Jr <mauro.mellojr@unimelb.edu.au>

Tue, Mar 14, 2023 at 10:51 PM

To: Mauro Mello Jr <mauro.mellojr@unimelb.edu.au>

Hi all in Project Teams Deliver-Eze (DE), Digital Health (DI) and Recruitment App (RE)—

Below the fold you will find two major areas that you need to be confident about. It may not be possible to clarify everything we would like to know about a product or project, when we need them. There will be a lot of uncertainty at the start which you will gradually reduce by your work (= force x displacement). This is an iterative process that will be refined during the semester at every opportunity. Think 'constant incremental improvements lead to big changes'.

In particular for item 2 below, it is a process that will require several iterations until a good amount of detail is obtained. Do not expect to extract all the answers at the first opportunity, but keep these questions in mind as you interact with your clients.

If you have any questions or comments reply to this message.

This is the start of your journey toward a very successful project performance. Do your best!

Regards,

Mauro Mello Jr

Supervisor, COMP90082 (2023S1)

1. Getting to know the context of the subject and your activities as students

Review the subject handbook for COMP90082 Software Project to have a very good understanding of the activities, requirements, assumed effort (hours), expectations, assignments and their marks, as well as dates. It is to your advantage to be well informed about the structure and functioning of the subject (i.e., no surprises).

With #1 out of the way let us move on to...

2. Getting to know the most important thing that justifies your existence as project teams—the product that you will produce and the client to whom you will deliver it.

Be prepared to find out as many of these details as you can at every opportunity you have to interact with your clients. Use the following questions (v1.0.0) to guide your investigation, which are adapted from typical root cause analysis procedures:

2.1. What is the thing that you will be working on?

a) What is **The Product™** and how can you fully and unambiguously characterize what will be packaged and delivered?

The 'what' refers to the overall characteristics of the product (think of it as its structure or architecture) as well as the individual characteristics themselves (or features).

b) What is *not* The Product™? This will help clarify features or components that might be considered part of the product but will not be required.

Tip: If you contrast 2.1.(a) and (b) you will be able to explain why the product is configured (structure and function) the way that the client requested it.

--

2.2. When is the thing required?

a) When is the product or major components required by the client? (Note, too, that you also need to take into account your academic schedule.)

The 'when' refers to calendar dates as well as 'when' in the client's operational cycles (e.g., after major sales campaigns).

b) When is the product not required (before or after)? These may involve contractual or logistical requirements or penalties for failing to meet deadlines.

Tip: If you contrast 2.2.(a) and (b) you will be able to explain why the product must be delivered on specific dates and not before or after.

- - -

2.3. Where is the thing required?

a) Where will the product be delivered, installed, maintained, managed? These refer to IT infrastructure as well as business infrastructure.

The 'where' refers to both physical or infrastructure locations as well as 'where' in the hierarchy of the company (the role that owns the product).

b) Where will the product not be delivered, installed, maintained, managed? These include cost, technological, operational, security, contractual or regulatory items.

Tip: If you contrast 2.3.(a) and (b) you will be able to explain why the product is required to be in a certain infrastructure location (physical or online) as well as organizational or hierarchical location.

- - -

2.4. How much/how extensive is the product?

a) How will the product be characterized in terms of performance (e.g., transactions/unit of time) and capacity (e.g., storage, number of users, locations)? How much will the product require in resources to be operated, maintained, modified, commissioned (and decommissioned)? How much will the client be prepared to pay for the product (either as 'hours' or hard cash, even if you never see it)? What are the quality requirements of the product (e.g., mean time between failures, availability, mean time to repair, resource usage, performance parameters).

b) How will the product be characterized outside these performance and capacity characteristics? What will not be acceptable?

Tip: If you contrast 2.4.(a) and (b) you will be able to explain why the product is so extensive, or large, or powerful, or not.

- - -

2.5. Who is related to the product?

a) Who will be involved in the installation, operation, use, maintenance, commissioning (and decommissioning) of the product? Who will be the sponsor of the product? Who will be the owner of the product? Who will be the recipient of the product's output?

Note #1: A sponsor may be a role in the organization that supports and provides a line of capital and operational expenditures associated with the product. The owner is the role in the hierarchy that operationally owns it for everyday use.

Note #2: You also need to take into account those indirectly related to your effort to create this product—the University of Melbourne academic staff in the subjects. An analogy: Assume that you 'work' for UoM and you were brought together as project teams to create products for outside clients. Actually, this is exactly what business life is out there.

b) Who will not be involved in the installation, operation, use, maintenance, etc. of the product (but might be tempted to be)? (Note: There are business imperatives that your product will address, and there may be other motives involved.)

Tip: If you contrast 2.5.(a) and (b) you will be able to explain why the roles (and people) are related to the product.

- - -

Again, it will not be possible to extract all of these details when you need them. You would need a small-to-medium-sized miracle to have all of these answers properly answered for most projects in a reasonable amount of time (if ever). It will take a combination of the knowledge, skills and expertise that you will be developing to extract them in an interactive manner (read: meetings with your clients and your supervisors, as well as your lecturers and subject coordinators).

These descriptions above are by no means complete or definitive, and can be improved. Let me know your comments and suggestions, or if you spot any errors.

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2023-03-15 Protocol for naming any and all messages in projects

 THE UNIVERSITY OF MELBOURNE	Chenyang Dong < doncd@student.unimelb.edu.au >
COMP90082 (2023S1): Protocol for naming any and all messages in projects (final notice) 1 message	
Mauro Mello Jr < mauro.mellojr@unimelb.edu.au >	Wed, Mar 15, 2023 at 5:25 PM
To: Mauro Mello Jr < mauro.mellojr@unimelb.edu.au >	
<p>Hi all project team members in COMP90082:</p> <p>The following applies to all messages sent from anyone in the projects I supervise in COMP90082 to anyone related to the projects—including but not limited to me, project team members, clients, lecturers, subject coordinator, etc.</p> <p>To help me assist you as effectively as possible, the 'Subject' field in *all* messages (including meeting invitations) regarding your projects and subject correspondence *must start* with:</p> <p>- "COMP90082/NN:" or "COMP90082 (2023S1)/NN:" followed by a short statement of the message (refer to this message's subject field for an example), where NN is your project code (e.g., DE, DI, RN)</p> <p>Messages can then be automatically sorted into smart project mailboxes and I will be able to reply to them in a timely manner.</p> <p>As everyday I receive a very large number of messages from several project teams, I will give priority to messages that follow this protocol.</p> <p>Messages that do not follow this protocol may take longer () to be considered and you run the risk of not getting answers when you need them.</p> <p>You are strongly advised to recommend this approach to your external clients, too.</p> <p>Regards,</p> <p>Mauro Mello Jr Supervisor, COMP90082 (2023S1)</p> <p>-----</p>	

2023-03-16 Advice on Communication and Preferred Name

 <p>THE UNIVERSITY OF MELBOURNE</p>	Chenyang Dong < doncd@student.unimelb.edu.au >
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Request for Ontoserver License 4 messages

Chenyang Dong < doncd@student.unimelb.edu.au >	Thu, Mar 16, 2023 at 5:23 PM
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To: mdhs-gr@unimelb.edu.au
Cc: Mauro Mello Jr <mauro.mellojr@unimelb.edu.au>, KUNXI SUN <kunxis@student.unimelb.edu.au>, Hanyi Gao <hanyig1@student.unimelb.edu.au>, Ricardo Luo <yulail1@student.unimelb.edu.au>, Yue Fei <yffei@student.unimelb.edu.au>

Dear Officer,

I am writing to request an Ontoserver license for our Master of Information Technology COMP90082 project from the University of Melbourne. Our team is developing a digital health platform that will assess if a medication has been appropriately prescribed to a patient, and we are interested in using Ontoserver to map short strings of text onto a knowledge base of canonical clinical terms known as SNOMED CT.

We have contacted the Ontoserver team requesting a free license, however we are informed that University of Melbourne already holds an active license, but we were not provided with further details on how to obtain access to the software. Therefore, we are hoping to obtain an Ontoserver license from you directly.

Our industry partner for this project is Dr. Daniel Capurro, and our supervisor is Mauro Mello Jr. We believe that the use of Ontoserver will be invaluable to our project and will significantly enhance our ability to deliver high-quality results.

We would be grateful if you could provide us with the necessary information and steps to obtain an Ontoserver license for our project. Thank you for your time and assistance in this matter.

Best Regards,
Chenyang Dong

Mauro Mello Jr < mauro.mellojr@unimelb.edu.au >	Thu, Mar 16, 2023 at 5:54 PM
--	------------------------------

To: Chenyang Dong <doncd@student.unimelb.edu.au>, KUNXI SUN <kunxis@student.unimelb.edu.au>, Hanyi Gao <hanyig1@student.unimelb.edu.au>, Ricardo Luo <yulail1@student.unimelb.edu.au>, Yue Fei <yffei@student.unimelb.edu.au>

Hi team—
Good write up.

Note that in such communications it is usual to also include the sponsor or client of the project. There are these people or organizational units involved, and whenever you cross these organizational boundaries you have to make clear who is who where:

- 1) The service provider: mdhs-gr (?)
- 2) The requestor of the product or service to be used in the project
 - 2.1) Daniel, who will own the final product, and who may be asked to confirm with the provider (in 1) that you are 'for real'.
 - 2.2) You, who report as a project team to your client (Daniel, who should have been cc'd).
 - 2.3) Me (as supervisor), who can also be contacted to vouch for your request.
3. For any and all communications with anyone related to this project, refer to the message I sent on naming conventions. The subject line above should have been
- "Subject: COMP90082 (2023S1)/DI: Request for Ontoserver license"

Regards,

Mauro Mello Jr
Supervisor, COMP90082 (2023S1)

[Quoted text hidden]

Chenyang Dong <doncd@student.unimelb.edu.au>

Thu, Mar 16, 2023 at 6:13 PM

To: Mauro Mello Jr <mauro.mellojr@unimelb.edu.au>

Cc: KUNXI SUN <kunxis@student.unimelb.edu.au>, Hanyi Gao <hanyig1@student.unimelb.edu.au>, Ricardo Luo <yulail1@student.unimelb.edu.au>, Yue Fei <yffei@student.unimelb.edu.au>

Dear Mr. Mello,

Thank you for your email and for your valuable advice on the project communication. I appreciate your guidance on the organizational structure of the project and your suggestion to include our client in our future communications. I will go cc Dr. Daniel Capurro, our industry partner and sponsor on these two emails towards the Faculty of Engineering and Information Technology and Faculty of Medicine, Dentistry & Health Sciences.

I will also ensure that we include the necessary parties in our future emails and follow the naming conventions that you have previously communicated to us.

Thank you once again for your support and supervision on this project.

Best regards,
Chenyang Dong

[Quoted text hidden]

Chenyang Dong <doncd@student.unimelb.edu.au>

Thu, Mar 16, 2023 at 6:35 PM

To: mdhs-gr@unimelb.edu.au

Cc: Mauro Mello Jr <mauro.mellojr@unimelb.edu.au>, KUNXI SUN <kunxis@student.unimelb.edu.au>, Hanyi Gao <hanyig1@student.unimelb.edu.au>, Ricardo Luo <yulail1@student.unimelb.edu.au>, Yue Fei <yffei@student.unimelb.edu.au>, Daniel Capurro <dcapurro@unimelb.edu.au>

Dear Officer,

In this email, I'm writing to clarify that our request is being made on behalf of the COMP90082 industry project team (DI-BoxJelly).

Our team members include Chenyang Dong, Kunxi Sun, Hanyi Gao, Yulai Luo and Yue Fei, which are responsible of developing the software for our client, Dr. Daniel Capurro (cc'd). Also, our supervisor in the project is Mauro Mello Jr (cc'd as well).

We appreciate any assistance you can provide in processing our request. Please let us know if you require any further information or documentation from us.

Thank you for your time and consideration.

Best regards,
Chenyang Dong
[Quoted text hidden]

Mauro Mello Jr <mauro.mellojr@unimelb.edu.au>

Thu, Mar 16, 2023 at 7:29 PM

To: Chenyang Dong <doncd@student.unimelb.edu.au>, KUNXI SUN <kunxis@student.unimelb.edu.au>, Hanyi Gao <hanyig1@student.unimelb.edu.au>, Ricardo Luo <yulail1@student.unimelb.edu.au>, Yue Fei <yffei@student.unimelb.edu.au>

Hi all—

Very good improvement in the communication of the request.

Note the following, though:

1. "COMP90082": [recipient asking] What? What is COMP90082?
2. "industry project team (DI-BoxJelly)": [recipient asking] What? What is DI? What is BoxJelly?

:)

Regards,

Mauro Mello Jr
Supervisor, (2023S1)

[Quoted text hidden]

Chenyang Dong <doncd@student.unimelb.edu.au>

Thu, Mar 16, 2023 at 7:50 PM

To: Mauro Mello Jr <mauro.mellojr@unimelb.edu.au>, KUNXI SUN <kunxis@student.unimelb.edu.au>, Hanyi Gao <hanyig1@student.unimelb.edu.au>, Ricardo Luo <yulail1@student.unimelb.edu.au>, Yue Fei <yffei@student.unimelb.edu.au>

Dear Mr. Mello,

Thank you for your further suggestions.

Since the email is sent to University Faculty, I thought 'Master of Information Technology COMP90082' would be sufficient to be understood as a subject. However, your notice is extremely important for us to send emails to other parties outside the organization in the future.

Also, for the project name and team name will also be further explained if that becomes an issue for the faculty to confirm us from Daniel or you. Similar issue of missing details or explanation will be avoided in the future communication.

Thank you very much!

Best regards,
Chenyang Dong

From: Mauro Mello Jr <mauro.mellojr@unimelb.edu.au>

Sent: Thursday, March 16, 2023 7:29:49 PM

To: Chenyang Dong <doncd@student.unimelb.edu.au>; KUNXI SUN <kunxis@student.unimelb.edu.au>; Hanyi Gao <hanyig1@student.unimelb.edu.au>; Ricardo Luo <yulail1@student.unimelb.edu.au>; Yue Fei <yfei@student.unimelb.edu.au>

Subject: Re: COMP90082/DI: Request for Ontoserver License

[Quoted text hidden]

Mauro Mello Jr <mauro.mellojr@unimelb.edu.au>

Thu, Mar 16, 2023 at 8:44 PM

To: Chenyang Dong <doncd@student.unimelb.edu.au>

Cc: KUNXI SUN <kunxis@student.unimelb.edu.au>, Hanyi Gao <hanyig1@student.unimelb.edu.au>, Ricardo Luo <yulail1@student.unimelb.edu.au>, Yue Fei <yfei@student.unimelb.edu.au>

Hi Chenyang—

1. Very good explanation of the items below.

2. The next time you address me as Mr. Mello you owe me coffee (for each instance). Mauro is the preferred name. Tell everyone in the DI teams the same.

Regards,

Mauro Mello Jr

Supervisor, COMP90082 (2023S1)

[Quoted text hidden]

Chenyang Dong <doncd@student.unimelb.edu.au>

Fri, Mar 17, 2023 at 12:27 AM

To: Mauro Mello Jr <mauro.mellojr@unimelb.edu.au>

Cc: KUNXI SUN <kunxis@student.unimelb.edu.au>, Hanyi Gao <hanyig1@student.unimelb.edu.au>, Ricardo Luo <yulail1@student.unimelb.edu.au>, Yue Fei <yfei@student.unimelb.edu.au>

Dear Mauro,

Thank you for telling me your preferred name. I've told everyone in the team about this. From now on, we'll call you Mauro to avoid buying you coffee haha :-)

Best regards,
Chenyang Dong

From: Mauro Mello Jr <mauro.mellojr@unimelb.edu.au>

Sent: Thursday, March 16, 2023 8:44:05 PM

To: Chenyang Dong <doncd@student.unimelb.edu.au>

Cc: KUNXI SUN <kunxis@student.unimelb.edu.au>; Hanyi Gao <hanyig1@student.unimelb.edu.au>; Ricardo Luo <yulail1@student.unimelb.edu.au>; Yue Fei <yfei@student.unimelb.edu.au>

[Quoted text hidden]

[Quoted text hidden]

2023-03-17 Weekly Team Meeting #01



Chenyang Dong <dondc@student.unimelb.edu.au>

COMP90082 (2023S1)/DI: Weekly team meeting #01 - Fri 2023-03-17-W11 15:00–15:15
1 message

Mauro Mello Jr <mauro.mellojr@unimelb.edu.au>

Fri, Mar 17, 2023 at 2:39 PM

To: Mauro Mello Jr <mauro.mellojr@unimelb.edu.au>

Hi all in Digital Health (DI) project—

Apologies for the short notice—I would like to have a brief standup meeting today, Fri 2023-03-17-W11 15:00–15:15 with as many of you as possible to get your updates for the week so far, and the work ahead.

We will have regular meetings from next week and will discuss the potential meeting times, too.

Regards,

Mauro Mello Jr

Supervisor, COMP90082 (2023S1)

Zoom meeting on Mar 17, 2023 15:00 Australia/Melbourne

Join from PC, Mac, iOS or Android: <https://unimelb.zoom.us/j/85845048863?pwd=K1hxMWdvQktyUXVwK1NQcWI5SWFKdz09>
Password: 999773

Need to dial-in instead? Enter the meeting ID: 858 4504 8863 via +61 3 7018 2005 or +61 2 8015 6011

Or join from a H.323/SIP room system:

Dial: 85845048863@global.zoomcrc.com | or SIP: 85845048863@zmau.us | or 103.122.166.55
with meeting ID: 85845048863 and password: 999773

Help: <https://unimelb.service-now.com/it>

Legal: <https://www.unimelb.edu.au/legal>

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2023-04-20 On Resuming Weekly Status Update Meetings

 THE UNIVERSITY OF MELBOURNE	Chenyang Dong < doncd@student.unimelb.edu.au >
COMP90082 (2023S1)/DI: On resuming our weekly status update meetings 3 messages	
Mauro Mello Jr < mauro.mellojr@unimelb.edu.au >	Thu, Apr 20, 2023 at 12:32 AM
To: Mauro Mello Jr < mauro.mellojr@unimelb.edu.au >	
<p>Hi Team DI—</p> <p>Welcome back to (more) active duty!</p> <p>We should resume our weekly status meetings for the Digital Health project. At the moment I am in a time zone 13 hours behind Melbourne, and our meeting will be in the middle of the graveyard shift for me (please refer to the attached chart).</p> <p>Would it be possible for us to hold the meeting earlier (on your Thu 2023-04-20 starting between 10:00 to 13:00 AEST) or later in the day (on your Thu 2023-04-20, starting between 19:00 to 20:00 AEST)?</p> <p>If not possible given the short notice we will hold the meeting at the currently scheduled time (your Thu 2023-04-20 16:30–17:30 AEST).</p> <p>This is a one-off only change and from next week our weekly meetings will be on their usual time slots.</p> <p>Once you determine your best option—(a) earlier in the day, (b) later in the day, (c) same time slot—could the team representatives let me know the outcome.</p> <p>Regards,</p> <p>Mauro Mello Jr Supervisor, COMP90082 (2023S1)</p> <p>-----</p>	
Chenyang Dong < doncd@student.unimelb.edu.au >	Thu, Apr 20, 2023 at 10:57 AM
To: Mauro Mello Jr < mauro.mellojr@unimelb.edu.au >	
<p>Dear Mauro,</p> <p>Thank you for the warm welcome back! We understand that time zones can be quite challenging, and we appreciate your flexibility in adjusting the meeting time for this week.</p> <p>After discussing with the team members, we have agreed to hold the meeting later in the day (Thu 2023-04-20, starting between 19:00 to 20:00 AEST) to better accommodate your time zone. However, please note that some team members might be absent due to scheduling conflicts. We apologize for any inconvenience this may cause, but we believe it is important to have your guidance during the meeting.</p> <p>Looking forward to catching up with you.</p> <p>Best regards, Chenyang Dong</p> <p>From: Mauro Mello Jr <mauro.mellojr@unimelb.edu.au> Sent: Thursday, April 20, 2023 12:32:11 AM To: Mauro Mello Jr <mauro.mellojr@unimelb.edu.au> Subject: COMP90082 (2023S1)/DI: On resuming our weekly status update meetings</p> <p>[Quoted text hidden]</p>	
Mauro Mello Jr < mauro.mellojr@unimelb.edu.au >	Thu, Apr 20, 2023 at 11:06 AM
To: Chenyang Dong < doncd@student.unimelb.edu.au >	

Dear Chenyang—

Thank you for considering my request. I confirm that we will hold this week's status update meeting between 19:00–20:00 (AEST).

I do understand that, given the circumstances and the short notice, some team members will not be able to attend this meeting, which is perfectly acceptable.

Talk soon,

Mauro Mello Jr
Supervisor, COMP90082 (2023S1)

On 19 Apr 2023, at 21:57, Chenyang Dong <doncd@student.unimelb.edu.au> wrote:

Dear Mauro,

Thank you for the warm welcome back! We understand that time zones can be quite challenging, and we appreciate your flexibility in adjusting the meeting time for this week.

After discussing with the team members, we have agreed to hold the meeting later in the day (Thu 2023-04-20, starting between 19:00 to 20:00 AEST) to better accommodate your time zone. However, please note that some team members might be absent due to scheduling conflicts. We apologize for any inconvenience this may cause, but we believe it is important to have your guidance during the meeting.

Looking forward to catching up with you.

Best regards,
Chenyang Dong

From: Mauro Mello Jr <mauro.mellojr@unimelb.edu.au>
Sent: Thursday, April 20, 2023 12:32:11 AM
To: Mauro Mello Jr <mauro.mellojr@unimelb.edu.au>
Subject: COMP90082 (2023S1)/DI: On resuming our weekly status update meetings

Hi Team DI—

Welcome back to (more) active duty!

We should resume our weekly status meetings for the Digital Health project. At the moment I am in a time zone 13 hours behind Melbourne, and our meeting will be in the middle of the graveyard shift for me (please refer to the attached chart).

Would it be possible for us to hold the meeting earlier (on your Thu 2023-04-20 starting between 10:00 to 13:00 AEST) or later in the day (on your Thu 2023-04-20, starting between 19:00 to 20:00 AEST)?

If not possible given the short notice we will hold the meeting at the currently scheduled time (your Thu 2023-04-20 16:30–17:30 AEST).

This is a one-off only change and from next week our weekly meetings will be on their usual time slots.

Once you determine your best option—(a) earlier in the day, (b) later in the day, (c) same time slot—could the team representatives let me know the outcome.

Regards,

Mauro Mello Jr
Supervisor, COMP90082 (2023S1)

[Quoted text hidden]

Communication with Other Parties

- 2023-03-09-(22) Request for Ontoserver License from ADHA
- 2023-03-16 Enquiry about Ontoserver License from Faculty of FEIT
- 2023-03-19 Inquiry about the 3M Healthcare Data Dictionary (HDD)
- 2023-03-22 Inquiry about Apelon DTS 4
- 2023-03-22 Inquiry about the HealthTerm
- 2023-03-22 Inquiry about the Symedical of Clinical Architecture

2023-03-09(-22) Request for Ontoserver License from ADHA

 <p>THE UNIVERSITY OF MELBOURNE</p>	Chenyang Dong < doncd@student.unimelb.edu.au >
<p>RE: Request for Ontoserver License SECRM:01991017 7 messages</p>	
<p>Digital Health Help Centre <help@digitalhealth.gov.au> Thu, Mar 9, 2023 at 5:53 PM</p> <p>To: Chenyang Dong <doncd@student.unimelb.edu.au>, Digital Health Help Centre <help@digitalhealth.gov.au></p> <p>Hello Chenyang,</p> <p>I would be more than happy to help you obtain the Ontoserver software and have outlined the steps below:</p> <p>Ontoserver Licence To do this, I will need the following details for the organisation / individual that will be holding the licence.</p> <p>1. Organisation Name / Individual Name 2. ABN 3. Address 4. Contact name and details (phone, email) 5. Quay.io account ID (you can create an account at https://quay.io)</p> <p>Once I have this, I will create a licence with the above details included and signed by an authorised representative of the Agency. To execute the licence, this will need to be signed by an authorised representative of your organisation or yourself (if you are obtaining as an individual), and provided back to the Agency in its entirety for countersigning and execution. Please note that our licensing agreement with CSIRO, ONLY allows us to distribute Ontoserver to Australian Organisations or individuals. For use outside of Australia you will need to obtain a licence directly with CSIRO.</p> <p>Ontoserver Software The Ontoserver software is distributed via the CSIRO's Docker repository. Following receipt of the executed licence, I will be notify you once access to the CSIRO Docker repository has been confirmed.</p> <p>NCTS Website Lastly, if you have not already, I would recommend that you have a look at the (https://www.healthterminologies.gov.au) and register your organisation, as this will enable you to licence and access SNOMED CT-AU terminology content, as well as create a system credential which will allow your local Ontoserver to connect and automatically obtain content when it is published. The website also contains the technical specifications for the Ontoserver API's.</p> <p>Any questions, please don't hesitate to contact me.</p> <p>Kind regards,</p> <p>Mitchell Richardson Customer Care Analyst Technology Operations</p> <p>[Redacted contact information]</p> <p>Australian Digital Health Agency Level 17, 1 Eagle Street, Brisbane QLD 4000</p> <p>Phone: 1300 901 001 Email: help@digitalhealth.gov.au Web: www.digitalhealth.gov.au</p> <p>The Australian Digital Health Agency acknowledges the traditional owners of country throughout Australia, and their continuing connection to land, sea and community. We pay our respects to them and their cultures, and to Elders both past and present.</p> <p>Original Message From: Chenyang Dong <doncd@student.unimelb.edu.au> Received: 07 Mar 2023 05:50:32 GMT+1000 (Australian Eastern Standard Time) To: Digital Health Help <help@digitalhealth.gov.au>; Cc: doncd@student.unimelb.edu.au; yufei@student.unimelb.edu.au; ghy2941879036@gmail.com Subject: Request for Ontoserver License</p> <p>CAUTION: Cyber Security Awareness: This email originated from outside our organisation. Before acting on instructions contained in the email, clicking on links or opening attachments, please ensure that you recognise the sender and that you are confident the content is authentic and safe. If you suspect the email is not legitimate, then click on the Report Message option. Dear Help Desk,</p> <p>I am writing to request a free Ontoserver license for our project from the University of Melbourne. Our team is developing a platform that will assess if a medication has been appropriately prescribed to a patient, and we are interested in using Ontoserver to map short strings of text onto a knowledge base of canonical clinical terms known as SNOMED CT.</p> <p>Can you please arrange authorization for our Quay.io account so that we can access the Ontoserver repository?</p> <p>The email address to our quay.io accounts are (email ---- username): doncd@student.unimelb.edu.au --- doncd_p ghy2941879036@gmail.com --- hanyi_gao yufei@student.unimelb.edu.au --- yufei_luo yifei@student.unimelb.edu.au --- yifei</p> <p>Thank you for your help.</p> <p>Best regards, Chenyang Dong Important: This transmission is intended only for the use of the addressee and may contain confidential or legally privileged information. If you are not the intended recipient, you are notified that any use or dissemination of this communication is strictly prohibited. If you receive this transmission in error please notify the author immediately and delete all copies of this transmission.</p>	

Chenyang Dong < doncd@student.unimelb.edu.au >	Thu, Mar 9, 2023 at 6:42 PM
To: Digital Health Help Centre < help@digitalhealth.gov.au >	

Thank you for your reply. Below is information you requested.

Organisation Name: University of Melbourne

Individual Name: Chenyang Dong

ABN: 84 002 705 224

Address: The University of Melbourne, Victoria 3010 Australia

Contact name and details (phone, email): Chenyang Dong 0401783575 doncd@student.unimelb.edu.au

Quay.io account ID:

doncd@student.unimelb.edu.au --- doncd_p
ghy2941879036@gmail.com --- hanyi_gao

yulail1@student.unimelb.edu.au --- yulailuo

yffei@student.unimelb.edu.au --- yffei

Thank you so much!

Chenyang Dong

[Quoted text hidden]

Chenyang Dong <doncd@student.unimelb.edu.au>

Thu, Mar 16, 2023 at 4:18 PM

To: Digital Health Help Centre <help@digitalhealth.gov.au>

Dear Mitchell,

I hope this email finds you well. I'm following up on my request for an Ontoserver license, which I sent on 09/03/23. I provided the details that you requested, including the organization/individual name, ABN, address, contact name and details, and Quay.io account ID.

I was wondering if there is any update on the progress of my license request, or if there is any additional information or documentation required. I'm looking forward to accessing the Ontoserver software and using it to support our work.

If you need any further information or clarification from my end, please let me know, and I'll be more than happy to provide it. Thank you for your assistance and support.

Best regards,
Chenyang Dong

From: Chenyang Dong <doncd@student.unimelb.edu.au>
Sent: Thursday, March 9, 2023 6:42:40 PM
To: Digital Health Help Centre <help@digitalhealth.gov.au>
Subject: Re: Request for Ontoserver License SECRM:01991017

[Quoted text hidden]

Digital Health Help Centre <help@digitalhealth.gov.au>

Tue, Mar 21, 2023 at 4:52 PM

To: Chenyang Dong <doncd@student.unimelb.edu.au>, Digital Health Help Centre <help@digitalhealth.gov.au>

Hello Chenyang,

Apologies for the delay in this request, I have received approval from the Ontoserver representative for the University of Melbourne. I have sent through the [quay.io](#) details of all students who have applied for access, to CSIRO who will assess and whitelist the accounts. I will contact you again when I have received confirmation of completion of this final step.

Kind regards,

Mitchell Richardson
Customer Care Analyst
Technology Operations



Australian Digital Health Agency
Level 17, 1 Eagle Street, Brisbane QLD 4000

Phone	1300 901 001
Email	help@digitalhealth.gov.au
Web	www.digitalhealth.gov.au

The Australian Digital Health Agency acknowledges the traditional owners of country throughout Australia, and their continuing connection to land, sea and community. We pay our respects to them and their cultures, and to Elders both past and present.

----- Original Message -----

From: Chenyang Dong <doncd@student.unimelb.edu.au>
Received: Thu Mar 16 2023 15:18:52 GMT+1000 (Australian Eastern Standard Time)
To: Digital Health Help # <help@digitalhealth.gov.au>; Customer Care Mail Service <help@digitalhealth.gov.au>;
Subject: Re: Request for Ontoserver License SECRM:01991017

[Quoted text hidden]

[Quoted text hidden]

Chenyang Dong <doncd@student.unimelb.edu.au>

Tue, Mar 21, 2023 at 5:23 PM

To: Digital Health Help Centre <help@digitalhealth.gov.au>

Dear Mitchell,

Thank you for your reply. I just received the invitation to join team: aehrc/unimelbctsa. Does that mean it is the confirmation of completion of whitelisting or is there anything we should wait for?

Thank you very much!

Best regards,
Chenyang

From: Digital Health Help Centre <help@digitalhealth.gov.au>

Sent: Tuesday, March 21, 2023 4:52:50 PM

To: Chenyang Dong <doncd@student.unimelb.edu.au>; Digital Health Help Centre <help@digitalhealth.gov.au>; Digital Health Help Centre <help@digitalhealth.gov.au>

[Quoted text hidden]

[Quoted text hidden]

Digital Health Help Centre <help@digitalhealth.gov.au>

Wed, Mar 22, 2023 at 3:53 PM

To: Chenyang Dong <doncd@student.unimelb.edu.au>, Digital Health Help Centre <help@digitalhealth.gov.au>

Good afternoon,

That is correct, you should now have access. Nothing further needs to be done.

Kind Regards,

Taylor Scott
Customer Support Officer, Customer Care
Technology Operations

Australian Digital Health Agency
Level 17, 1 Eagle Street, Brisbane QLD 4000

[Quoted text hidden]

[Quoted text hidden]

[Quoted text hidden]

Chenyang Dong <doncd@student.unimelb.edu.au>

Wed, Mar 22, 2023 at 4:08 PM

To: Digital Health Help Centre <help@digitalhealth.gov.au>

Thank you so much!

[Quoted text hidden]

2023-03-16 Enquiry about Ontoserver License from Faculty of FEIT

 THE UNIVERSITY OF MELBOURNE	Chenyang Dong < doncd@student.unimelb.edu.au >
COMP90082/DI: Request for Ontoserver License 4 messages	
Chenyang Dong < doncd@student.unimelb.edu.au > Thu, Mar 16, 2023 at 5:35 PM	
To: feit-gr-candidates@student.unimelb.edu.au	
Cc: KUNXI SUN < kunxis@student.unimelb.edu.au >, Hanyi Gao < hanyig1@student.unimelb.edu.au >, Ricardo Luo < yulail1@student.unimelb.edu.au >, Yue Fei < yffei@student.unimelb.edu.au >	
<p>Dear Officer,</p> <p>I am writing to request an Ontoserver license for our Master of Information Technology COMP90082 project from the University of Melbourne. Our team is developing a digital health platform that will assess if a medication has been appropriately prescribed to a patient, and we are interested in using Ontoserver to map short strings of text onto a knowledge base of canonical clinical terms known as SNOMED CT.</p> <p>We have contacted the Ontoserver team requesting a free license, however we are informed that University of Melbourne already holds an active license, but we were not provided with further details on how to obtain access to the software. Therefore, we are hoping to obtain an Ontoserver license from you directly.</p> <p>Our industry partner for this project is Dr. Daniel Capurro, and our supervisor is Mauro Mello Jr. We believe that the use of Ontoserver will be invaluable to our project and will significantly enhance our ability to deliver high-quality results.</p> <p>We would be grateful if you could provide us with the necessary information and steps to obtain an Ontoserver license for our project. Thank you for your time and assistance in this matter.</p> <p>Best Regards,</p> <p>Chenyang Dong</p>	

Chenyang Dong < doncd@student.unimelb.edu.au >	Thu, Mar 16, 2023 at 6:36 PM
To: feit-gr-candidates@student.unimelb.edu.au	
Cc: KUNXI SUN < kunxis@student.unimelb.edu.au >, Hanyi Gao < hanyig1@student.unimelb.edu.au >, Ricardo Luo < yulail1@student.unimelb.edu.au >, Yue Fei < yffei@student.unimelb.edu.au >, Daniel Capurro < dcapurro@student.unimelb.edu.au >, Mauro Mello Jr < mauro.mellojr@student.unimelb.edu.au >	

Dear Officer,

In this email, I'm writing to clarify that our request is being made on behalf of the COMP90082 industry project team (DI-BoxJelly).

Our team members include Chenyang Dong, Kunxi Sun, Hanyi Gao, Yulai Luo and Yue Fei, which are responsible of developing the software for our client, Dr. Daniel Capurro (cc'd). Also, our supervisor in the project is Mauro Mello Jr (cc'd as well).

We appreciate any assistance you can provide in processing our request. Please let us know if you require any further information or documentation from us.

Thank you for your time and consideration.

Best regards,

Chenyang Dong

[Quoted text hidden]

FEIT Graduate Research Current Students <feit-gr-candidates@unimelb.edu.au>

Fri, Mar 17, 2023 at 9:33 AM

To: Chenyang Dong <doncd@student.unimelb.edu.au>

Cc: KUNXI SUN <kunxis@student.unimelb.edu.au>, Hanyi Gao <hanyig1@student.unimelb.edu.au>, Ricardo Luo <yulail1@student.unimelb.edu.au>, Yue Fei <yffei@student.unimelb.edu.au>

Hi Chenyang,

Thank you for your email, I am afraid we are not able to help you on this, could you please contact [Student IT](#), they are best placed to help you on this.

Kind regards,

Naif

[Graduate Researchers: Adding your student ID in your subject line helps us to identify the correct student and associated details.](#)

For all things GR-related please bookmark and familiarise yourself with:

[Graduate Research Hub | University of Melbourne \(unimelb.edu.au\)](#)

[Making Changes | University of Melbourne \(unimelb.edu.au\)](#)

Dr Naif Alsowaidi B.Eng.(Hons), M.Eng.Sc, PhD | Graduate Research Officer

Faculty of Engineering and Information Technology

Level 1, Melbourne Connect

The University of Melbourne, Victoria 3010 Australia

E: naif.alsowaidi@unimelb.edu.au T: [+61383440623](tel:+61383440623) W: gradresearch.unimelb.edu.au

unimelb.edu.au | facebook.com/unimelb | twitter.com/unimelb

I acknowledge the Traditional Owners of the land on which I work, and pay my respects to the Elders, past and present.

CRICOS: 00116K

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From: Chenyang Dong <doncd@student.unimelb.edu.au>

Sent: Thursday, March 16, 2023 5:36 PM

To: FEIT Graduate Research Current Students <feit-gr-candidates@unimelb.edu.au>

Cc: KUNXI SUN <kunxis@student.unimelb.edu.au>; Hanyi Gao <hanyig1@student.unimelb.edu.au>; Ricardo Luo <yulail1@student.unimelb.edu.au>; Yue Fei <yffei@student.unimelb.edu.au>

[Quoted text hidden]

[Quoted text hidden]

Chenyang Dong <doncd@student.unimelb.edu.au>

Fri, Mar 17, 2023 at 10:21 AM

To: FEIT Graduate Research Current Students <feit-gr-candidates@unimelb.edu.au>

Cc: KUNXI SUN <kunxis@student.unimelb.edu.au>, Hanyi Gao <hanyig1@student.unimelb.edu.au>, Ricardo Luo <yulail1@student.unimelb.edu.au>, Yue Fei <yffei@student.unimelb.edu.au>

No worries. Thank you for your reply!

Best regards,

Chenyang Dong

From: FEIT Graduate Research Current Students <feit-gr-candidates@unimelb.edu.au>

Sent: Friday, March 17, 2023 9:33:22 AM

To: Chenyang Dong <doncd@student.unimelb.edu.au>

Cc: KUNXI SUN <kunxis@student.unimelb.edu.au>; Hanyi Gao <hanyig1@student.unimelb.edu.au>; Ricardo Luo <yulail1@student.unimelb.edu.au>;

Yue Fei <yffei@student.unimelb.edu.au>

Subject: RE: COMP90082/DI: Request for Ontoserver License

[Quoted text hidden]

2023-03-19 Inquiry about the 3M Healthcare Data Dictionary (HDD)

RE: HDD Access: Inquiry about the 3M Healthcare Data Dictionary (HDD) for Digital Health Platform

External
Inbox

Michael Denton <msdenton@mmm.com>

1:29AM (19 hours ago)

to me, Pamela, Tom

Hi Chenyang, thanks for reaching out!

It sounds like you have an interesting use-case and we do have experience using SNOMED CT through our Healthcare Data Dictionary (HDD) to create similar data sets to what you described. The HDD is a relational database used for storing and navigating controlled medical vocabularies such as SNOMED CT or RxNorm. The HDD can be used for performing text-string searches to identify concepts that have representations (e.g. displays - identifiers, codes, descriptions, synonyms) or relationships (e.g. hierarchical, categorical) to other concepts as seen and used by standards including HL7. However, the HDD does not by itself provide "automapping" - you will need to create and maintain custom local mappings yourself, assuming that mapping as described in your use-case would be mapping descriptions from a local set of clinical terms to a standard set of SNOMED CT concepts. While we do have some publicly available map sets, we are not currently offering custom mapping services at this time.

HDD Access as seen on our website is for demo purposes only. The commercial offering of the HDD includes multiple standard terminologies which are maintained and provided in monthly content releases. Users will have access to an HDD search engine (HDD Browser) for navigation, RESTful APIs, and a database supported with Oracle and Microsoft SQL Server. The HDD can operate on Linux or Microsoft Windows (64 bit) operating systems and is web hosted or can be downloaded as an on-premise installation. Each client will have their own "version" of the HDD controlled by a user namespace that provides clients with the ability to customize local content, including the ability to view historical or iterative versions of a given terminology, map set, or data set. The HDD does include technical documentation for items such as software installation, database structures, RESTful API services, but no support services. An annual license starts at USD \$27,500 for development use.

Let us know if you have additional questions.

Thank you,

Michael Denton

-----Original Message-----

From: HDD Access <no-reply@mail.3mhis.com>

Sent: Sunday, March 19, 2023 12:39 AM

To: HI-HDD <hi-hdd@mmm.com>

Subject: [EXTERNAL] HDD Access: Inquiry about the 3M Healthcare Data Dictionary (HDD) for Digital Health Platform

This is an enquiry email via <https://www.hddaccess.com/> from:
Chenyang Dong <doncd@student.unimelb.edu.au>

Dear 3M team,

I hope this message finds you well. Our team is developing a digital health platform that will assess if a medication has been appropriately prescribed to a patient. We are looking for a mapping tool that can map short text strings onto a knowledge base of canonical clinical terms, specifically using SNOMED CT.

I came across the 3M Healthcare Data Dictionary (HDD) on your website and noticed that you offer a public version with detailed information on system requirements and supported technologies. We are interested in learning more about the 3M HDD and how it could potentially integrate with our platform.

To help us make a well-informed decision, we would appreciate if you could provide us with the following information:

- The release date of the latest version of the 3M HDD.
- Any software requirements or prerequisites, such as supported Database Management System (DBMS) options.
- The pricing structure for using the 3M HDD, including any available subscription plans or one-time fees.
- Information on the ease of integration with existing systems, such as compatibility with standard healthcare data exchange formats (e.g., HL7, FHIR) and available APIs.
- Technical support options and resources, such as documentation, training materials, and access to a dedicated support team.

Additionally, we would be grateful for any documentation, case studies, or testimonials that highlight the successful integration of the 3M HDD into similar digital health platforms.

Thank you for your time and assistance. We look forward to hearing from you soon and exploring the possibility of using the 3M Healthcare Data Dictionary in our project.

Best regards,
Chenyang Dong

2023-03-22 Inquiry about Apelon DTS 4

Reply from DTS 4 Team:

Hello Yue Fei,

Thank you for reaching out to learn more about Apelon's DTS! No license is required to use DTS for a non-commercial project. In fact, DTS is completely open-source and you could download and install it (and its source code, for that matter) for free from apelondts.org right now if you'd like. The business model around DTS is simple – while the terminology server software itself is free, it's essentially an empty container. To populate it, Apelon provides a standard terminology subscription service – push-button access to approximately 70 healthcare terminologies such as ICD-10, SNOMED CT, LOINC, and CPT – for approximately \$27,000 US per year. Additionally, we offer software support services – access to our Client Services team, guidance with installations and configurations, phone and email support, ServiceDesk ticket tracking, and more – for an additional \$15,000 US per year.

For full transparency, I've attached our boilerplate agreements for content and support services. This is all we'd want executed before you put DTS to use. If you have any other questions or would like a demo of the tool, please let me know!

Thanks,
Dan

Daniel S. Smith | [Apelon, Inc.](#) | Vice President | dsmith@apelon.com | 203.431.2530 x 157

...

Inquiry Email:

Dear Apelon DTS 4 Team,

I am a student of Information Technology at the University of Melbourne, and I am currently working on a digital health project. I came across your software, Apelon DTS 4, during my research and I am considering using it for my project.

However, before proceeding, I would like to inquire about the license requirement for using Apelon DTS 4 in a digital health project. Could you please let me know if a license is required to use your software for a non-commercial project like mine?

I would appreciate it if you could provide me with the necessary information regarding the licensing of Apelon DTS 4, including the terms and conditions, and any associated costs.

Thank you in advance for your prompt response. Please let me know if you require any further information from my end.

Looking forward to hearing from you soon.

Best regards,
Yue Fei

Agreement of service:



DTS Software Support Services V9.9.docx



Apelon Subscription Conte...vices Agreement v9.8.docx

2023-03-22 Inquiry about the HealthTerm

Dear Lyniate HealthTerm team,

I hope this message finds you well. Our team is developing a digital health platform that will assess if a medication has been appropriately prescribed to a patient. We are looking for a mapping tool that can map short text strings onto a knowledge base of canonical clinical terms, specifically using SNOMED CT.

I came across the HealthTerm on your website and noticed that you provide a platform for semantic interoperability, offering a full set of tools for terminology management. We are interested in learning more about the HealthTerm and how it could potentially integrate with our platform.

To help us make a well-informed decision, we would appreciate if you could provide us with the following information:

- The pricing structure for using the HealthTerm, including any available subscription plans or one-time fees.
- Information on the ease of integration with existing systems, such as compatibility with standard healthcare data exchange formats (e.g., HL7, FHIR) and available APIs.
- Technical support options and resources, such as documentation, training materials, and access to a dedicated support team.

Additionally, we would be grateful for any documentation, case studies, or testimonials that highlight the successful integration of the HealthTerm into similar digital health platforms.

Thank you for your time and assistance. We look forward to hearing from you soon and exploring the possibility of using the HealthTerm in our project.

Best regards,

Hanyi Gao

2023-03-22 Inquiry about the Symedical of Clinical Architecture

Ricardo Luo <yulail1@student.unimelb.edu.au>	Wed, Mar 22, 2023 at 4:29 PM
To: contact@clinicalarchitecture.com	
<p>Dear Clinical Architecture Staff:</p> <p>We are a team from the University of Melbourne. Our team is developing a platform that will assess if a medication has been appropriately prescribed to a patient. The primary objective of this platform is to determine whether medications prescribed to patients are appropriate by normalizing free-text clinical notes and mapping them to canonical clinical terms.</p>	
<p>We learn from your website that Symedical is a cutting-edge, vendor-neutral solution created to enhance the quality of healthcare data, offer a platform for the aggregation of clinical data, automate semantic normalization and interoperability, and enrich your data to make it meaningful and usable. We are curious to learn more about Symedical and how it might work with our platform.</p>	
<p>We would appreciate it if you could give us the following details so we can make an informed choice:</p> <ul style="list-style-type: none">• The date on which the most recent Symedical version was released.• Any software prerequisites or requirements, including options for supported Database Management Systems (DBMS).• The cost of utilizing Symedical, including any subscription plans or one-time costs that could be offered.• Details on how simple integration with current systems is, such as compatibility with HL7, FHIR, and other common healthcare data exchange standards, as well as information on available APIs.• Options and resources for technical help, including manuals, educational materials, and contact with a specialized support team.	
<p>I appreciate your help and time. We hope to get your reply soon to talk about how we can use Symedical in our project.</p>	
<p>Best Regards,</p>	
<p>Team DI-Boxjelly</p>	

Meetings

[Create meeting note](#)

Incomplete tasks from meetings

Task report

Looking good, no incomplete tasks.

All meeting notes

Title	Creator	Modified
2023-03-24 Meeting notes - Team (Sprint 1 Review & Sprint 2 Plan)	Chenyang Dong	46 minutes ago
2023-04-28 Meeting notes - Team (Sprint 2 Review & Sprint 3 Plan)	Ricardo Luo	about an hour ago
2023-03-30 Meeting notes - Supervisor	Chenyang Dong	yesterday at 12:44 AM
2023-03-29 Meeting notes - Team	Chenyang Dong	29 Apr, 2023
2023-04-01 Meeting notes - Team	Yue Fei	29 Apr, 2023
2023-03-31 Meeting notes - Client	KUNXI SUN	29 Apr, 2023
2023-04-27 Meeting notes - Supervisor	Ricardo Luo	28 Apr, 2023
2023-04-27 Meeting notes - Team	Ricardo Luo	28 Apr, 2023
2023-04-20 Meeting notes - Supervisor	Ricardo Luo	21 Apr, 2023
2023-04-18 Meeting notes - Team	Ricardo Luo	21 Apr, 2023
2023-04-06 Meeting notes - Client	Ricardo Luo	06 Apr, 2023
2023-04-06 Meeting notes - Supervisor	Ricardo Luo	06 Apr, 2023
2023-03-24 Meeting notes - Client	KUNXI SUN	01 Apr, 2023
2023-03-22 Meeting notes - Team	Ricardo Luo	24 Mar, 2023
2023-03-10 Meeting notes - Client	Yue Fei	24 Mar, 2023
2023-03-17 Meeting notes - Team	KUNXI SUN	23 Mar, 2023
2023-03-04 Meeting notes - Team	KUNXI SUN	23 Mar, 2023
2023-03-17 Meeting notes - Supervisor	Ricardo Luo	23 Mar, 2023
2023-03-09 Meeting notes - Supervisor	Ricardo Luo	23 Mar, 2023
2023-03-17 Meeting notes - Client	Hanyi Gao	23 Mar, 2023

[Find more results](#)

Team Meetings

Attendee

Name	Email
Kunxi (Quincy) Sun	kunxis@student.unimelb.edu.au
Chenyang (Peter) Dong	doncd@student.unimelb.edu.au
Hanyi (Henry) Gao	hanyig1@student.unimelb.edu.au
Yulai (Ricardo) Luo	yulail1@student.unimelb.edu.au
Yue (Molly) Fei	yffei@student.unimelb.edu.au

Meeting List

- 2023-02-27 Meeting notes - Team
- 2023-03-04 Meeting notes - Team
- 2023-03-12 Meeting notes - Team
- 2023-03-17 Meeting notes - Team
- 2023-03-22 Meeting notes - Team
- 2023-03-24 Meeting notes - Team
- 2023-03-29 Meeting notes - Team
- 2023-04-01 Meeting notes - Team
- 2023-04-18 Meeting notes - Team
- 2023-04-27 Meeting notes - Team

2023-02-27 Meeting notes - Team

Date

27 Feb 2023

Attendees

- Ricardo Luo
- KUNXI SUN
- Chenyang Dong
- Hanyi Gao
- Yue Fei

Goals

- Know each other and discuss the projects.

Discussion items

Time	Item	Who	Notes
20 minutes	Icebreaker	All	<ul style="list-style-type: none">• Introduce ourselves
1 hour	Projects discussion	All	<ul style="list-style-type: none">• Discuss the projects
10 minutes	Next meeting plan	All	<ul style="list-style-type: none">• Plan the date and content of the next meeting

Action items

- review the projects Ricardo Luo KUNXI SUN @Chenyang Dong Hanyi Gao @Yue Fei

Details

Unknown:

BioLogic (code: BI)

Genyus Journey (code: GN)

Deliver-Eze (code: DE)

Digital Health (code: DI)

Science Island (code SC)

Motivational Modelling Editor (code MM)

Easy:

ARPANSA Film Dosimetry Management App (code: FI) - Could be selected

CoachingMate Garmin API (code: GA) - Could be selected

Middle:

Game of Ethics (code GE)

Praxhub (code: PR) - Could be selected

iOS Mobile App (code: IO) - Could be selected

Android Mobile App (code: AN) - Could be selected

WebRTC Virtual Doctor Platform (code: VD) - Could be selected

Hard:

ChatGPT and Nao Robot (code: NA) - Could be challenged

Farmbots (code: FA)

Sandbox Operator Framework (code: SA)

Decisions

Everyone selects three projects and then we vote to make a final decision.

2023-03-04 Meeting notes - Team

Date

04 Mar 2023

Participants

- KUNXI SUN
- Ricardo Luo
- Hanyi Gao
- Chenyang Dong
- Yue Fei

Goals

- Choose the project preference
- Submit the team form

Discussion topics

Time	Item	Presenter	Notes
10:00	Team form	Yue Fei	<ul style="list-style-type: none">• Fill in the team form
10:00	Project Preference	Ricardo Luo KUNXI SUN Hanyi Gao Yue Fei Chenyang Dong	<ul style="list-style-type: none">• Decide the project preference

Decisions

1. Project preference: PR, VD, DI

2023-03-12 Meeting notes - Team

Date

12 Mar 2023

Attendees

- Ricardo Luo
- KUNXI SUN
- Hanyi Gao
- Chenyang Dong
- Yue Fei

Goals

- Discuss and update the user story
- Discuss possible techniques
- Review and update the prototype

Discussion items

Time	Item	Who	Notes
20 mins	User story	All	<ul style="list-style-type: none">• Discuss and update the user story
20 mins	Techniques	All	<ul style="list-style-type: none">• Discuss possible techniques
20 mins	Prototype	All	<ul style="list-style-type: none">• Review and update the prototype

Decisions

All of us will try to use Figma to design the prototype in the next few days.

2023-03-17 Meeting notes - Team

Date

17 Mar 2023

Attendees

- [Hanyi Gao](#)
- [Chenyang Dong](#)
- [Yue Fei](#)
- [KUNXI SUN](#)
- [Ricardo Luo](#)

Goals

- Discuss the role of the team
- Describe 2-3 personas
- List all the user stories and use cases, story point
- Technique to use in this project
- Confluence environment(cover page, project details, requirements, technical details about the project, meeting minutes and so on)
- Finish the Readme file on GitHub (project description/branches/naming conventions and so on)

Discussion items

Time	Item	Who	Notes
20min	Discuss the role of the team	All	
20min	Describe 2-3 personas	All	
20min	List all the user stories and use cases, story point	All	
20min	Technique to use in this project	All	
20min	Confluence environment(cover page, project details, requirements, technical details about the project, meeting minutes, and so on)	All	
20min	Finish Readme file on Github (project description/branches/naming conventions and so on)	All	

Action items

Role:

Name	Role
KUNXI SUN	Backend, Design, Operation
Hanyi Gao	Frontend, Testing, Design
Chenyang Dong	Scrum Master, Frontend, Backend
Yue Fei	Frontend, Backend, UX
Ricardo Luo	Frontend, Backend, UX

- Personas: The person who does the curated job, the person who wants to use the platform to do mapping task, and the person who want the platform to train a better performance model (Daniel)
- User stories
- Technique:**
Backend: Python Flask, Nginx, Gunicorn, Docker, Ansible
Frontend: React, HTML, JS, CSS, Ant Design
Database: MongoDB
Mapping tool: Ontoserver and other potential alternatives
- Confluence: cover page

2023-03-22 Meeting notes - Team

Date

22 Mar 2023

Attendees

- Ricardo Luo
- Hanyi Gao
- Chenyang Dong
- Yue Fei
- KUNXI SUN

Goals

- Complete ongoing collaborative tasks and Assign the remaining tasks.

Discussion items

Time	Item	Who	Notes
1 hour	Collaborative tasks such as the Miro user story map	All	<ul style="list-style-type: none">• Complete ongoing collaborative tasks
30 mins	Finished tasks such as personas	All	<ul style="list-style-type: none">• Review Finished tasks
30 mins	Remaining tasks such as use cases and user stories	All	<ul style="list-style-type: none">• Assign the remaining tasks and place them on Trello

Action items

- Finalize all the submission items. Ricardo Luo Hanyi Gao Chenyang Dong Yue Fei KUNXI SUN

Decisions:

- Finish all the Remaining tasks by tomorrow evening.
- Make proper movements on Trello.
- Release tags are generated.
- Submit the checklist and Confluence Space as PDFs.

2023-03-24 Meeting notes - Team (Sprint 1 Review & Sprint 2 Plan)

Date

24 Mar 2023

Attendees

- Chenyang Dong
- Ricardo Luo
- Yue Fei
- KUNXI SUN
- @ Hanyi Gao

Goals

- Feedback on client meeting
- Finalise the requirements from the client for Sprint 1
- Make additional plan for development sprints

Discussion items

Time	Item	Who	Notes
15 mins	Feedback on what was discussed on client meeting	All	Versioning requirement from Vlada; Update and modification on current version of documents required.
10 mins	Review the checklist of Sprint 1	All	
5 mins	Submit the checklist on LMS; Upload the confluence pages on Github; Release with required tag.	Chenyang Dong	
30 mins	Sprint 1 Review based on the feedback from client and current prototype and documentations	All	
30 mins	Sprint 2 plan which focus on discussing Ontoserver and task assign based on requirements	All	Ontoserver; Assign self for desired tasks

Action items

- Update the prototype with versioning requirement
- Update the user story with versioning requirement
- Update the motivational model and Do-Be-Feel-Who List with versioning requirement
- Change the typos on medical researchers in black box and unicorn role on motivational model
- Update the use case with versioning requirement
- Update the functional requirements with versioning requirement
- Update product backlog with versioning requirement

2023-03-29 Meeting notes - Team

Date

29 Mar 2023

Attendees

- Chenyang Dong
- Ricardo Luo
- Hanyi Gao
- Yue Fei
- KUNXI SUN

Goals

- Finish up the previous work on versioning
- Go through current codes
- Plan for pair programming

Discussion items

Time	Item	Who	Notes
10 mins	Progress on versioning change	All	Done
20 mins	Review on prototype	Hanyi Gao	Brain storm on versioning idea and invitation idea
20 mins	Go through current codes	KUNXI SUN Hanyi Gao	
10 mins	Q&A	All	
5 mins	Trello update on To-do list for sprint 2	Chenyang Dong	Members can assign themselves for tasks
5 mins	Plan for pair programming	All	Pair with those who are familiar with React or Flask

Action items

- Ontoserver API investigation
- Decide to write the API documentation

2023-04-01 Meeting notes - Team

Date

01 Apr 2023

Attendees

- [KUNXI SUN](#)
- [Ricardo Luo](#)
- [Yue Fei](#)
- [Chenyang Dong](#)
- [Hanyi Gao](#)

Goals

- Update the Ansible server deployment with team members.
- Decide the next feature that needs to be developed.

Discussion items

Time	Item	Who	Notes
50 mins	<ul style="list-style-type: none">• Update the Ansible server deployment with team members• Ansible trouble shooting	KUNXI SUN	NA
10 mins	<ul style="list-style-type: none">• Update the versioning functionality proposed by the client on Confluence.	All	Done
30 mins	<ul style="list-style-type: none">• Decide the next feature that needs to be developed.• Divide front-end team and back-end team in sprint1 phase 1 and divide task.	All	<ul style="list-style-type: none">• KUNXI SUN Yue Fei Chenyang Dong will be working on back-end now• KUNXI SUN Chenyang Dong will be working on Ontoserver• Hanyi Gao Ricardo Luo will be working on front-end now• Finish mapping and log in page demo before next client meeting.

Action items

- Finish single-text mapping and log in page demo before next client meeting.

2023-04-18 Meeting notes - Team

Date

18 Apr 2023

Attendees

- KUNXI SUN
- Ricardo Luo
- Yue Fei
- Chenyang Dong
- Hanyi Gao

Goals

- Discuss the mapping approach and Review sprint 1

Discussion items

Time	Item	Who	Notes
40 mins	Mapping approach	All	<ul style="list-style-type: none">• There are two different ideas about the mapping approach:<ul style="list-style-type: none">• 1. Input short texts -> preprocess -> SNOMED CT -> UIL• 2. Input short texts -> preprocess -> UIL
20 mins	Review sprint 1	All	<ul style="list-style-type: none">• Define the project scope• Justify personas• Provide acceptance criteria for user stories• Clarify prioritization• Improve task planning• Link user stories - ID• Consider including security

Decisions

- We would further explore feasible mapping approaches.
- We would modify sprint 1 documentation and code according to the assignment feedback.

2023-04-27 Meeting notes - Team

Date

27 Apr 2023

Attendees

- KUNXI SUN
- Ricardo Luo
- Yue Fei
- Chenyang Dong
- Hanyi Gao

Goals

- Check the current project progress
- Summarize the tasks that were not completed
- Assign the remaining tasks

Discussion items

Time	Item	Who	Notes
1 hour	Current project progress	All	<ul style="list-style-type: none">• Focus on mapping approach
2 hours	Unfinished tasks	All	<ul style="list-style-type: none">• Discuss and summarize and assign the remaining tasks
1.5 hours	Assigned tasks	All	<ul style="list-style-type: none">• Do the tasks separately with Zoom on
30 mins	Current project progress	All	<ul style="list-style-type: none">• Review the current project progress again

Decisions:

- Every team member needs to complete their tasks on time by 9 pm tomorrow.

2023-04-28 Meeting notes - Team (Sprint 2 Review & Sprint 3 Plan)

This detail discussion note of this meeting is recorded in Sprint 2 - Review and Sprint 3 - Plan page

Date

28 Apr 2023

Attendees

- KUNXI SUN
- Ricardo Luo
- Yue Fei
- Chenyang Dong
- Hanyi Gao

Goals

- Check the current project progress
- Summarize the tasks that were not completed
- All team members work together to complete unfinished tasks

Discussion items

Time	Item	Who	Notes
20 mins	Gather the unfinished task based on the sprint 2 rubric	All	
90 mins	Finish the task together on Zoom	All	
30 mins	Team discuss about the current progress and available solutions to catch up the project progress	All	
30 mins	Reflect on sprint 2 and build new team rules on next sprint	All	
30 mins	Plan on sprint 3 according to sprint 2 review	All	

Decisions:

- All team members check their finished parts, the entire Confluence page and the code on our GitHub.
- Have a standup meeting everyday on 9pm.
- Use MedCAT for mapping clinical text into SNOMED CT for accuracy.
- Everyone spend more time on the project.
- Assign tasks on every member.

Client Meetings

Team BoxJelly weekly catch-up @ Weekly from 10am to 10:30am on Friday from Fri Mar 17 to Fri Jun 30 (AEDT) (Vlada Rozova)

When

Weekly from 10am to 10:30am on Friday from Friday Mar 17 to Friday Jun 30 (Eastern Australia Time - Sydney)

Location

<https://unimelb.zoom.us/j/83403070257?pwd=VjVJakZwTGI5a1FoOWtmNINtTzN2Zz09>;

Melbourne Connect !290-4-4101-Meeting Room (8), !290-4-4101-Meeting Room (8)

Organizer

Vlada Rozova
vabella.rozova@unimelb.edu.au

Guests

doncd@student.unimelb.edu.au
hanyig1@student.unimelb.edu.au
kunxis@student.unimelb.edu.au
Mauro Mello Jr
Mike Conway
yffei@student.unimelb.edu.au
yulail1@student.unimelb.edu.au
Daniel Capurro

Meeting List

- 2023-03-10 Meeting notes - Client
- 2023-03-17 Meeting notes - Client
- 2023-03-24 Meeting notes - Client
- 2023-03-31 Meeting notes - Client
- 2023-04-06 Meeting notes - Client
- 2023-04-21 Meeting notes - Client
- 2023-04-28 Meeting notes - Client

2023-03-10 Meeting notes - Client

Date

10 Mar 2023

Attendees

- @Daniel Capurro
- @Vlada Rozova
- Chenyang Dong
- Yue Fei
- Hanyi Gao
- KUNXI SUN
- Ricardo Luo
- All team members of DI-Redback

Goals

- Decide the project scope, expected outcome, timelines and communication throughout the semester

Discussion items

Time	Item	Who	Notes
5 minutes	Introduction	Daniel, Chenyang and Lang	<ul style="list-style-type: none">• Introduce Daniel's background and introduce team members
20 minutes	Introduction	Daniel	<ul style="list-style-type: none">• Introduce project background, data sources and expected outcome.
30 minutes	Discussion	All of attendees	<ul style="list-style-type: none">• Discuss the project scope, user stories, expected outcome, timelines and communication throughout the semester.

Action items

- Finished our user stories and prototype
- Decide software architecture and finish sprint planning by the end of week4
- Decide the next meeting dates and times

Decisions

- Decide two groups working separately
- Decide personas have 2 modes: one mode for training and one mode for inference.
- Decide expected outcome have 5 parts: map, visualise, curate, feedback curated mapping and download.

2023-03-17 Meeting notes - Client

Date

17 Mar 2023

Attendees

- @Vlada Rozova
- @Mike Conway
- Hanyi Gao
- Chenyang Dong
- Yue Fei
- KUNXI SUN
- Ricardo Luo

Goals

- Sync progress with the clients
- Have a more clear understanding of the clients' vision and the project details

Discussion items

Time	Item	Who	Notes
10min	the uncertain part the team has	All	<ul style="list-style-type: none">• Discuss the Ontoserver license• Discuss what the Universal Indication List (UIL) looks like• Discuss the other tool options apart from Ontoserver
10min	the project details - part 1	All	<ul style="list-style-type: none">• Discuss how to curate the data
20min	the project details - part 2	All	<ul style="list-style-type: none">• Discuss the prototype and the functionalities in different modules

Action items

- Update the user story based on the clients' requirements
- Update the prototype based on the clients' requirements

2023-03-24 Meeting notes - Client

Date

24 Mar 2023

Attendees

- @Daniel Capurro
- @Vlada Rozova
- @Mike
- @Brain
- [Chenyang Dong](#)
- Yue Fei
- Hanyi Gao
- [KUNXI SUN](#)
- Ricardo Luo

Goals

- Present the latest prototype
- Talk about the use case
- Ask for the infrastructure if secure research unimelb

Discussion items

Time	Item	Who	Notes
25 minutes	Show mapping, curate, and visualization prototypes	Chenyang Dong	<ul style="list-style-type: none">• Vlada: store every version mapping dictionary,• Brian: The way to performance makes sense, back the time of use case• Daniel from the chat: Looks good
5 mins	Show team management prototype	Chenyang Dong	<ul style="list-style-type: none">• Vlada: We like the user management, someone can do something, others cannot, but we want transfer owner, multiple admins• Vlada: People may find a new job. We should give access to every member, so everyone can add people.

Action items

- Modify the Figma prototype to satisfy clients' suggestions and requirements versioning function

Decisions

- Vlada would create a Slack channel and invite all of us.
- Vlada would review the "Mapping Tools" document to make future decisions.

2023-03-31 Meeting notes - Client

Date

31 Mar 2023

Attendees

- @Daniel Capurro
- @Vlada Rozova
- @Mike
- Mauro Mello Jr
- Chenyang Dong
- Yue Fei
- Hanyi Gao
- KUNXI SUN
- Ricardo Luo

Goals

- Show our software architecture, technical details and prototype
- Update our process with client (with versioning updated)

Discussion items

Time	Item	Who	Notes
5 mins	Show updated prototype	• Hanyi Gao	Rollback is essential problem, but if time limited, we can focus on other user stories.
2 mins	Ask for infrastructure	• KUNXI SUN	Vlada: Connect to SRE is complicated, but the support team will help. Handover a container
5 mins	Show software architecture	• KUNXI SUN	Kunxi: Our product will not be deployed in one container
5 mins	Show Confluence space	• Chenyang Dong	
2 mins	UIL account privilege	Vlada	Vlada: contact the UIL team to resolve the issue to uplift the privilege of the account <ul style="list-style-type: none">▪ May see the code for the term, helpful for mapping
5 mins	Ask for the checkpoint	• Mauro Mello Jr	Mauro Mello J: We need to tell the client the check point of current project progress. Vlada : can help us prioritise what functions need to be implemented first. Chengyang: At end of each sprint, we can show the checklist Mike: mentions about the documentation, which we can use confluence page to give

Action items

- Update the priority of versioning function from must to could
- Send email to confirm meeting time for next week due to Good Friday
- Send user story for Vlada to review the priority
- Ask about SRE in written form

Decisions

- We still try to deploy our product locally and remotely on our own cloud server.

2023-04-06 Meeting notes - Client

Date

06 Apr 2023

Attendees

- @Vlada Rozova
- [Chenyang Dong](#)
- Yue Fei
- Hanyi Gao
- KUNXI SUN
- Ricardo Luo

Goals

- Present current achievements to the client and discuss some confusing questions.

Discussion items

Time	Item	Who	Notes
5 mins	metadata presentation	Chenyang Dong	<ul style="list-style-type: none">• Input: Reason for Prescription• Output: SNOMED CT term (semantic tags)• Sinusitis• LRTI• UTI• Influenza-like illness• Review
10 mins	Frontend page	Chenyang Dong Hanyi Gao	<ul style="list-style-type: none">• Login page• Mapping: main page
10 mins	Postman presentation and review	Chenyang Dong	<ul style="list-style-type: none">• Discussion and exchange of ideas
15 mins	UIL and All SNOMED CT Codes	All	<ul style="list-style-type: none">• Discussion and exchange of ideas
5 mins	Windows 2019 container	All	<ul style="list-style-type: none">• Discussion and exchange of ideas

Actions:

- Vlada would help us access more contents of UIL

Decisions and relevant questions:

The followings are the main points and troubles that we mentioned in the meeting:

Q: We could not access the matching score, what should we do?

A: NLP techniques would solve the problem.

Q: Some indications of UIL do not exist in the SNOMED CT, what are the codes of these indications?

A: More codes in SNOMED CT would be added.

Q: If we need to ultimately map to the UIL, how could we get the real-time data of UIL?(Which could only be exported to use)

A: Directly exporting the data would be available.

Q: Do we need to define, create and match the value set and concept map by ourselves?

A: Use existing stuff of SNOMED CT to define, create and match the value set and concept map. It could be considered in the later phase.

2023-04-21 Meeting notes - Client

Date

21 Apr 2023

Attendees

- @Daniel Capurro
- @Vlada Rozova
- @Mike Conway
- Chenyang Dong
- Yue Fei
- Hanyi Gao
- KUNXI SUN
- Ricardo Luo

Goals

- Show current develop sprint work
- Discuss next phase development

Discussion items

Time	Item	Who	Notes
10min	Show Frontend Page	Hanyi Gao	Vlada: Keep all the Snomed CT categories (and the code) then select it in UIL
10min	Discuss the python package to do mapping - MedCAT	Chenyang Dong Han yi Gao	Daniel: challenge keep facing - new categories? keep coming, so the classify does not always correct. Ontoserver can extend the terminology can manually curate for future time. Curate future mapping, the system have never seen, storing mapping, used for future similar term. UIL - subset of Snomed CT Mike: Medcat requires UMLS license
5min	Daniel show his perspective about the desired product mapping process	@Daniel Capurro	Daniel:  <p>When mapping from SNOMED CT to the UIL, some mappings can be automated and others require curation. Check the rows first and if the situation has occurred before, it may be possible to directly map to the appropriate Snomed CT (or UIL?) concept.</p>
3min	Deployment server	Chenyang Dong	Vlada: I will send him a follow up email

Action items

- Vlada will send a follow up email to Hywel about the deployment server.
- Vlada will show us a demo website

Decisions

- Medcat require UMLS license, further consideration may required if we really need it.

2023-04-28 Meeting notes - Client

Date

28 Apr 2023

Attendees

- Mauro Mello Jr
- @Vlada Rozova
- @Mike Conway
- Chenyang Dong
- Yue Fei
- Hanyi Gao
- KUNXI SUN
- Ricardo Luo

Goals

- Show current developed sprint work
- Discuss the next phase of development

Discussion items

Time	Item	Who	Notes
5 min	Team feedback	@Mauro Mello J	Mauro asks for feedback from Vlada about how the team reacts to their requirements.
5 min	Talk about medcat	Yue Fei Chenyang Dong	Chenyang Dong: It requires a license @Vlada: What license does MedCAT use? Need a few days to apply. Chenyang Dong: We are building our own algorithm, but we will also apply for the MedCAT license
5 min	Build our own concept map	Chenyang Dong	
5 min	Talk about the SnomedCT to UIL	Chenyang Dong	Vlada: SnomedCT have only one closest UIL.
5 min	MRC deployment version	Chenyang Dong	Windows Server 2019

Action items

- Send the package and document to Vlada on May 1.

Decisions

- Apply for a MedCAT UMLS license.
- Continue to build the mapping algorithm.

Supervisor Meetings

COMP90082 (2023S1)/DI Weekly Team Meeting (W09-21) from 4:30pm to 5:30pm on Thursday from Thu Mar 30 to Thu May 25 (AEDT)

When

Weekly from 4:30pm to 5:30pm on Thursday from Thursday Mar 30 to Thursday May 25 (Eastern Australia Time - Sydney)

Location

<https://unimelb.zoom.us/j/82255631087?pwd=RXdVdHJCbnh1bEtLZWhDQ21jY3ZCUT09>

Organizer

Mauro Mello Jr
mauro.mellojr@unimelb.edu.au

Guests

doncd@student.unimelb.edu.au
hanyig1@student.unimelb.edu.au
jiacwang3@student.unimelb.edu.au
kunxis@student.unimelb.edu.au
lancao@student.unimelb.edu.au
mingjung1@student.unimelb.edu.au
runzheh@student.unimelb.edu.au
yake@student.unimelb.edu.au
yffei@student.unimelb.edu.au
yulail1@student.unimelb.edu.au

Meeting List

- 2023-03-09 Meeting notes - Supervisor
- 2023-03-17 Meeting notes - Supervisor
- 2023-03-30 Meeting notes - Supervisor
- 2023-04-06 Meeting notes - Supervisor
- 2023-04-20 Meeting notes - Supervisor
- 2023-04-27 Meeting notes - Supervisor

2023-03-09 Meeting notes - Supervisor

Date

09 Mar 2023

Attendees

- Mauro Mello Jr
- Ricardo Luo
- KUNXI SUN
- Chenyang Dong
- Hanyi Gao
- Yue Fei
- All team members of DI-Redback

Goals

- Have our first one-hour e-meeting

Discussion items

Time	Item	Who	Notes
5 minutes	Introduction	Mauro Mello Jr	<ul style="list-style-type: none">• Introduce himself
5 minutes	Introduction	Mauro Mello Jr	<ul style="list-style-type: none">• Introduce our clients
40 minutes	Lesson	Mauro Mello Jr	<ul style="list-style-type: none">• Explain the concepts of technical terms and the procedures of a project
30 minutes	Discussion	All members of the two teams	<ul style="list-style-type: none">• Plan the first meeting with Prof Daniel Capurro and Dr. Vlada Rozova
30 minutes	Discussion	All members of our team	<ul style="list-style-type: none">• Discuss our skills and techniques

Action items

- Send emails to Prof Daniel Capurro and Dr. Vlada Rozova to set a meeting time.

Decisions

Decide the regular meeting time with Prof Daniel Capurro and Dr. Vlada Rozova.

2023-03-17 Meeting notes - Supervisor

Date

17 Mar 2023

Attendees

- Mauro Mello Jr
- Ricardo Luo
- Hanyi Gao
- Chenyang Dong
- Yue Fei
- KUNXI SUN

Goals

- Keep Mauro informed of the newest process of our project.

Discussion items

Time	Item	Who	Notes
20 minutes	Review process	Both teams	<ul style="list-style-type: none">• Prepare multiple plans rather than one• Set a clear deadline for each step and task

Decisions

Decide a regular meeting time soon.

2023-03-30 Meeting notes - Supervisor

Date

30 Mar 2023

Attendees

- Mauro Mello Jr
- Ricardo Luo
- Hanyi Gao
- Chenyang Dong
- Yue Fei
- KUNXI SUN

Goals

- Keep Mauro update with the latest process of our project.
 - Communication with clients
 - Feedback from clients
 - Any breakthrough or rockblock

Discussion items

Time	Item	Who	Notes
30 mins	Update on the process of our team	Chenyang Dong KUNXI SUN	<ul style="list-style-type: none">• Prototype showing• Basic system architecture showing• Explain the difference between two teams working on the project<ul style="list-style-type: none">• Other team focusing on the functioning first• We balance between functioning and prototype
20 mins	The other team showing the process	Team Redback	<ul style="list-style-type: none">• Discuss about requirements from the client• Show the prototype
10 mins	Give advice on the project management	Mauro Mello Jr	<ul style="list-style-type: none">• Use any tool such as spreadsheet or Trello (which we will be using) to record the issues<ul style="list-style-type: none">• Title, description, who is assigned with, deadline• Design style guide for user interface<ul style="list-style-type: none">• Whether to use Unimelb style

Action items

- Issues record on Trello
- Plan what will be discussed on tomorrow meeting
 - Unimelb Research Cloud
 - Prototype showing with versioning function and get feedback
 - Ask about design style guide for user interface, whether to use Unimelb style

2023-04-06 Meeting notes - Supervisor

Date

06 Apr 2023

Attendees

- Mauro Mello Jr
- Chenyang Dong
- Yue Fei
- Hanyi Gao
- KUNXI SUN
- Ricardo Luo

Goals

- Check and review the progress of both teams' projects weekly

Discussion items

Time	Item	Who	Notes
10 mins	Project procedures	All	<ul style="list-style-type: none">• Discuss and explain the concepts and details of project procedures
10 mins	Project progress	All	<ul style="list-style-type: none">• Review the progress of both teams' projects
5 mins	Suggestions	Mauro Mello Jr	<ul style="list-style-type: none">• Give suggestions to both teams for the benefit of our projects

Decisions

- Test cases, project scope, and project goal need to be added to the Confluence pages.
- We should regard Confluence as a website and we need someone as a client to check the Confluence pages
- Redback issue: Ontoserver is a little slow, so we could use MPI. Boxjelly: we use multiple mapping instances.

2023-04-20 Meeting notes - Supervisor

Date

20 Apr 2023

Attendees

- KUNXI SUN
- Ricardo Luo
- Yue Fei
- Chenyang Dong
- Hanyi Gao
- Mauro Mello Jr

Goals

- Check and review the progress of both teams' projects weekly
- Discuss sprint 1 feedback

Discussion items

Time	Item	Who	Notes
30 mins	The current progress of the project	All	<ul style="list-style-type: none">• Both teams' projects are going well• Give suggestions to both teams' projects
20 mins	Sprint 1 feedback	All	<ul style="list-style-type: none">• Modify the Confluence and code according to the assignment feedback• Application for a remark if we are not satisfied with our feedback

Decisions

- We would continue to work on our project and make sure everything could be submitted smoothly before the deadline of sprint 2.

2023-04-27 Meeting notes - Supervisor

Date

27 Apr 2023

Attendees

- KUNXI SUN
- Ricardo Luo
- Yue Fei
- Chenyang Dong
- Hanyi Gao
- Mauro Mello Jr

Goals

- Check and review the progress of both teams' projects weekly
- Discuss the tips for intelligent and meaningful submission
- Discuss the aim of making two teams do the same projects

Discussion items

Time	Item	Who	Notes
40 mins	The current progress of the project	All	<ul style="list-style-type: none">• Check Both teams' projects' progress• Give suggestions to both teams' projects
10 mins	Submission tips	All	<ul style="list-style-type: none">• Tangible evidence• Clear guidance• Be careful about all rubrics• Selected pages• Easy to mark• Satisfy clients
10 mins	Aim of making two teams do the same projects	All	<ul style="list-style-type: none">• Learn from each other• Collision of ideas

Decisions

- Finish all artifacts of sprint 2 with high quality and submit on time

Development

Title	Creator	Modified
APIs	KUNXI SUN	27 Apr, 2023
Digital Prototype	Chenyang Dong	02 Apr, 2023

APIs

Based on the user stories, to implement maintainable and extendable system architecture, we split the system into five modules. Each of them represents a Flask application in Docker container.

Module	APIs	Description
Authentication Service	<ol style="list-style-type: none">1. User Login2. User Logout3. User forget password4. User reset password5. User Register <FOR DEVELOPER TEST ONLY>	
Map Service	<ol style="list-style-type: none">1. Create a map task2. Get detail of a map task3. Delete a map task4. Get mapped items of a map task5. Update(Curate) the category of a mapped item in map task	
UIL Service	<ol style="list-style-type: none">1. Create a new UIL category2. Get details of a category3. Update a category4. Delete a category5. Get the UIL list of a version	
Common Service	<ol style="list-style-type: none">1. Create a Team2. Add team member into a team3. Delete a team member from a team4. Change owner of a team5. Update permission of a team member6. Send a email7. Upload a file8. Update SNOMED CT version	
Gateway Service	<ol style="list-style-type: none">1. Redirect requests	

Digital Prototype

Log in

The login screen features a header with three dots and the URL 'mapping.com'. Below it is a title 'Mapping' in blue. A 'Log in' button is at the bottom.

Username: Kunxi Sun
Password: *****

Forgot password?

Log In

Main

The main interface has a header with three dots and the URL 'mapping.com'. On the left is a sidebar with 'Mapping' in blue, 'Main' (selected), 'History Stats', and 'Account'. The main area shows 'Select the Mode' with 'Inference' selected. A 'Map' button is to the right. A large input field says 'Drag your file here or [Browse](#)'. Below it is a text input field with placeholder 'Or input a short text for test'. At the bottom, 'Mapping Result:' shows 'Term 1'. A user profile 'Daniel' is on the right with 'Your profile' and 'Sign out' options.

Inference Mode

This screenshot shows the 'Inference' tab of the Mapping application. The left sidebar includes 'Main', 'History Stats', and 'Account'. The top navigation bar has 'Go Back', 'Inference' (which is selected), 'Training', and a user profile for 'Daniel'. A blue 'Export' button is located in the top right. The main content area displays a table with two columns: 'Original Text' and 'Mapping Category'. The table contains several rows of data, with some entries like '?????????????' having empty mapping categories. At the bottom, there are navigation arrows for page 1 through 60.

This screenshot is similar to the one above but includes a modal dialog box in the center. The dialog asks 'Do you confirm to export the CSV file?' with 'Cancel' and 'Confirm' buttons. The rest of the interface is identical to the first screenshot, showing the 'Inference' tab with a list of mapped items.

Training Mode

This screenshot shows the 'Training' tab of the Mapping application. The left sidebar includes 'Main', 'History Stats', and 'Account'. The top navigation bar has 'Go Back', 'Inference' (which is selected), 'Training', and a user profile for 'Daniel'. There are three buttons at the top: 'Filter', 'Reset', and a search bar. The main content area displays a table with six columns: 'Original.Text', 'Mapping Category', 'Curated Category', 'Mapping Status', 'Confidence', and 'Actions'. One row shows a curated category dropdown menu expanded to show options like 'Body lice', 'Skin', 'Eye', etc. At the bottom, there is a blue 'Re-train' button.

Mapping

Inference **Training**

Mapping Status: Select | Confidence Range: 80% | Filter | Reset

Original Text	Mapping Category	Curated Category	Mapping Status	Confidence	Actions
Perianal abscess 1	Some Category 1	Some Category 2	Success	79%	
?????????	-	Some Category 2	Success	68%	
Perianal abscess 1	Some Category 1	Some Category 3	Success	48%	
Perianal abscess 1	Some Category 1	Some Category 3	Success	65%	
Perianal abscess 1	Some Category 1	Some Category 3	Success	79%	
Perianal abscess 1	Some Category 1	Some Category 3	Success	79%	
Perianal abscess 1	Some Category 1	Some Category 3	Success	79%	

Re-train

1 2 3 4 5 ... 60 >

Mapping

Inference **Training**

Mapping Status: Select | Confidence Range: 80% | Filter | Reset

Original Text	Mapping Category	Curated Category	Mapping Status	Confidence	Actions
Perianal abscess 1	Some Category 1	Some Category 2	Success	68%	
?????????	-	Some Category 2	Success	13%	
Perianal abscess 1	Some Category 1	Some Category 3	Success	8%	
Perianal abscess 1	Some Category 1	Some Category 3	Success	7%	
Perianal abscess 1	Some Category 1	Some Category 3	Success	4%	
Perianal abscess 1	Some Category 1	Some Category 3	Success	2%	
Perianal abscess 1	Some Category 1	Some Category 3	Success	1%	

View Detail

Original Text: Perianal abscess 1
Mapped Category: Term 1

Item	Confidence
Item 1	68%
Item 2	13%
Item 3	8%
Item 4	7%
Item 5	4%

Re-train

Mapping

Inference **Training**

Mapping Status: Select | Confidence Range: 80% | Filter | Reset

Original Text	Mapping Category	Curated Category	Mapping Status	Confidence	Actions
Perianal abscess 1	Some Category 1	Some Category 2	Success	68%	
?????????	-	Some Category 2	Success	13%	
Perianal abscess 1	Some Category 1	Some Category 3	Success	8%	
Perianal abscess 1	Some Category 1	Some Category 3	Success	7%	
Perianal abscess 1	Some Category 1	Some Category 3	Success	4%	
Perianal abscess 1	Some Category 1	Some Category 3	Success	2%	
Perianal abscess 1	Some Category 1	Some Category 3	Success	1%	

Overall Performance

Total Mapping Text: 380
Success: 325 | Fail: 55

Successful Mapping Rate: 85.52% | Overall Confidence: 67.62%

Category	Proportion
Category 1	24%
Category 2	30%
Category 3	21%
Category 4	11%
Category 5	5%
Category 6	8%
Category 7	1%

Re-train

Overall Performance

Total Mapping Text: 380

Success 325 • Fail 55

Original Text	Mapping Category	Curated Category
Perianal abscess 1	Some Category 1	Some Category 1
???????????	-	Some Category 1
Perianal abscess 1	Some Category 1	Some Category 1
Perianal abscess 1	Some Category 1	Some Category 1
Perianal abscess 1	Some Category 1	Some Category 1
Perianal abscess 1	Some Category 1	Some Category 1
Perianal abscess 1	Some Category 1	Some Category 1

Successful Mapping Rate: 85.52% Overall Confidence: 67.62%

Proportion Confidence

Re-train

Retrain History

Retrained By: Daniel **Select Date**: 2023-03-17 → 2023-03-20

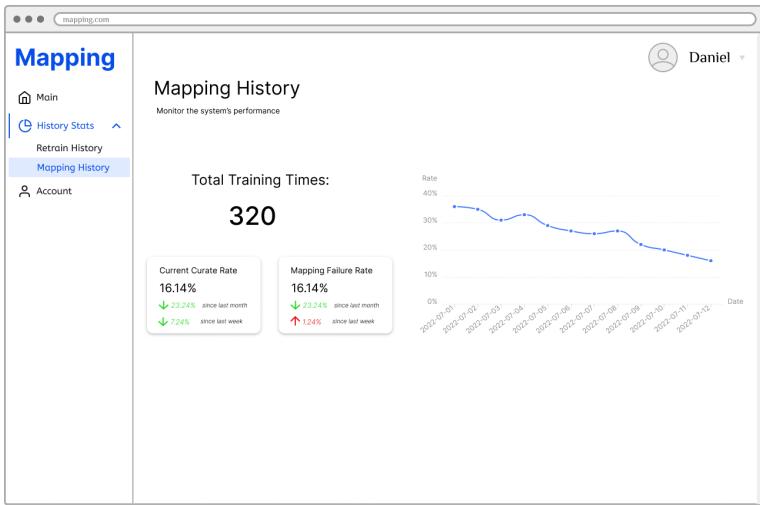
Mapping ID	Retrained By	Retrained At	Curate Number	Actions
1	Daniel	2023-03-18 13:37	8	🔗
2	Daniel	2023-03-18 13:37	10	🔗
3	Daniel	2023-03-18 13:37	10	🔗
4	Daniel	2023-03-18 13:37	10	🔗
5	Daniel	2023-03-18 13:37	10	🔗
6	Daniel	2023-03-18 13:37	10	🔗
7	Daniel	2023-03-18 13:37	10	🔗
8	Daniel	2023-03-18 13:37	10	🔗

Curating Details

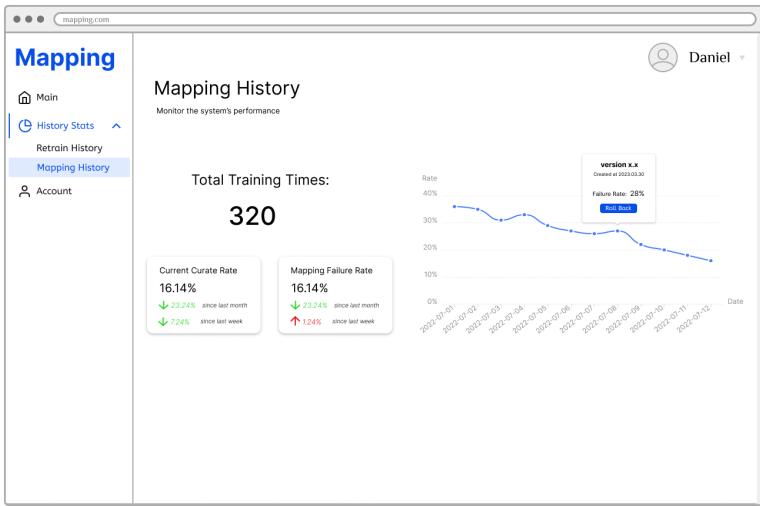
Curated By Daniel at 2023-03-18 13:37
The total number of curation is 8

Curation ID	Original Text	Mapped Category	Curated to
1	Perianal abscess 1	Category 1	Category 4
2	???????????	-	Category 4
3	Perianal abscess 1	Category 1	Category 4
4	Perianal abscess 1	Category 1	Category 4
5	Perianal abscess 1	Category 1	Category 4
6	Perianal abscess 1	Category 1	Category 4
7	Perianal abscess 1	Category 1	Category 4
8	Perianal abscess 1	Category 1	Category 4

Mapping History



Mapping Versioning (Admin only)



Profile

mapping.com

Mapping

- Main
- History Stats
- Account**

Edit Profile



First Name	Last Name
Hanyi	Gao
Username	
Hanyigl	
Email	
Hanyigl@student.unimelb.edu.au	

Update Details

Change Password

mapping.com

Mapping

- Main
- History Stats
- Account**

Edit Profile



First Name	Last Name
Hanyi	Gao
Username	
Hanyigl	
Email	
Hanyigl@student.unimelb.edu.au	

Change Password

Current Password	*****
New Password	*****
Confirm Password	*****

Cancel **Update**

Update Details

Change Password

Team Management (Admin only)

mapping.com

Mapping

- Main
- History Stats
- Account
- Team Management**

Add Member

Daniel

All members

	Name	User Group	Last Login	Role
	XXXX XXX	CURATE	2022-12-12 12:00	OWNER
	XXXX XXX	RESERCH/ CURATE	2022-12-12 12:00	MEMBER
	XXXX XXX	RESERCH/ NORMAL	2022-12-12 12:00	MEMBER
	XXXX XXX	RESERCH/ NORMAL	2022-12-12 12:00	MEMBER
	XXXX XXX	NORMAL	2022-12-12 12:00	MEMBER
	XXXX XXX	-	2022-12-12 12:00	MEMBER

+ New User Group

Not Allocated

Research Group

Curate Group

Normal User

Architecture

4+1 Architecture Models

To make the system clear to the user and other developers, we include many diagrams to introduce this product in the following views. Most of the techniques used in this product are listed in detail in the [technique details](#) page.

Logical View

- [Database model diagram](#)
- [State diagram](#)

Process View

- *Planned in Sprint 3*

Development View

- [System Diagram](#)
- [Container diagram](#)

Physical View

- Deployment Pipeline(On Plan)

Scenario/Use Case View

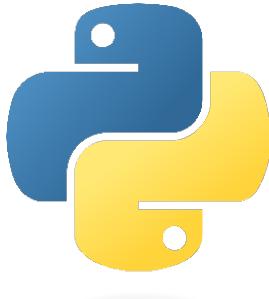
- [Sequence diagrams](#)(On Plan)

Reference

https://cis-projects.github.io/project_based_course_notes/topics/architecture.html?highlight=diagram

Technique Detail

Programming language



Architecture Overview

Front-end and back-end separation

From the perspective independently, we separate the frontend and backend, so that each part can be developed, maintained, and scaled independently. From the perspective of software future extensibility, as we aim to handover several docker images including backends docker images and frontend docker images for our client. This separation of concerns simplifies the development process, so that we can implement the code by separated the groups into frontend and backend. For the project to be further extent in the future, this architecture is easier to allow it to be developed as a complex applications. On the other hand, if the client decide to change the backend technology or migrate to a different frontend framework in the future implementation of the project, having a clear separation between the two will make the transition smoother and less disruptive.

Microservice

Microservice is an popular architecture in todays software, as it offers various benefits in terms of scalability, maintainability, and flexibility. Microservices can be independently scaled based on their specific resource requirements or load, allowing the project to handle increased demand more efficiently. This can lead to more cost-effective use of resources and better performance under varying workloads. In addition, microservices can be implemented using different programming languages, frameworks, or technologies, based on the requirements of each service. This enables the future development teams who aim to improve this project to choose the best tools for their specific needs and avoid being locked into our current technology stack. Furthermore, microservices are smaller and more focused than monolithic applications, making them easier to understand, maintain, and update. This can lead to improved code quality, reduced technical debt, and a lower likelihood of bugs or issues. Lastly, Microservice architecture promotes modular design and separation of concerns, making it easier to manage complexity and maintain a clear focus on individual components, and each service can be on different infrastructure components, allowing for more efficient use of resources and better distribution of workloads.

Backend

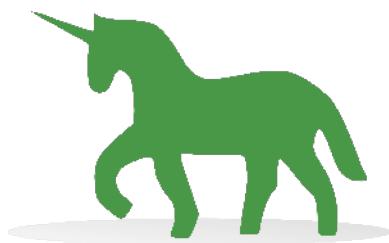
Flask, Gunicorn, and Nginx are popular choices for web development projects due to their ease of use, flexibility, and high-performance. These choices allow the team to quickly develop and deploy a robust, scalable and efficient web application that meets the client's requirement.



Flask

Flask provides the freedom to design the application's structure and architecture as you see fit, making it suitable for a wide variety of projects with different requirements and constraints. As the project is to intergrate the functions from Mapping tools such as Ontoserver.

[More about Flask](#)



Gunicorn is usually applied as a combination with Flask application. By using Gunicorn as the WSGI server, the application can efficiently manage multiple concurrent requests, leading to better performance and a more responsive user experience.

[More about Gunicorn](#)

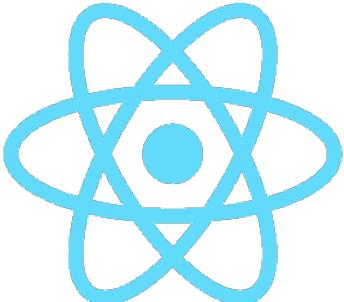


NGINX

[More about Nginx](#)

Frontend

We use React and Ant Design for the frontend, the project can benefit from a modular, maintainable, and scalable architecture that enables efficient development and collaboration. This approach also allows for greater flexibility in adapting to future changes or integrating with external services.



React is a popular, powerful, and efficient JavaScript library for building user interfaces. It utilizes a component-based architecture, making it easy to create modular, reusable UI components. React's virtual DOM ensures high performance and efficient updates, leading to a smoother user experience.

[More about React](#)



Ant Design is a comprehensive UI design framework for React applications. It provides a wide range of pre-built, customizable components that follow a consistent design language, which accelerates the development process and ensures a professional-looking application.

[More about Ant design](#)

Database



MongoDB is a popular NoSQL database that stores data in a flexible BSON format. It is chosen for this project because it offers schema flexibility, allowing data storage without a fixed structure, which is useful for diverse data types and evolving data models. Additionally, it provides horizontal scalability, making it suitable for handling large data volumes and high-traffic loads. MongoDB's document-based storage model results in faster and more efficient queries compared to traditional relational databases, and it supports indexing and caching for improved query performance. The database also features a rich query language, enabling developers to build complex and efficient queries. Furthermore, MongoDB has extensive support for various programming languages, including JavaScript, Python, Java, and C#.

[More about mongoDB](#)

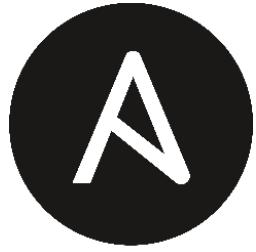
Deployment

We use Docker and Ansible for deployment which can make the project benefit from the consistency, scalability, and automation. It can streamline the deployment process and improve infrastructure's reliability. However, Ansible requires a learning curve, which might be a challenge for future teams.



Docker enables us to package the project and its dependencies in a container, ensuring consistency across development, testing, and production environments. This eliminates the "it works on my machine" problem and streamlines deployment. In addition, as we decided to use a microservice architecture, Docker is the most prevalent tool to help us to fulfill this goal. Furthermore, Docker containers run in isolation, reducing the risk of conflicts between applications or dependencies. This isolation improves the security and reliability of the services. Lastly, Docker makes it easy to scale applications horizontally by deploying additional containers. This scalability allows future teams to add more functions ("components") into the system.

[More about Docker](#)



ANSIBLE

Ansible uses a declarative language, implemented by python, to define the project infrastructure and configurations, which means the infrastructure is treated as code. This enables version control, easier collaboration, and improved maintainability. It automates the deployment, configuration, and management of infrastructure by reducing manual effort and the potential for human error. Unlike some other configuration management tools, Ansible is easy to install, because it is a python package, and can be easily installed by 'pip install ansible' which does not require an agent to be installed on the production system.

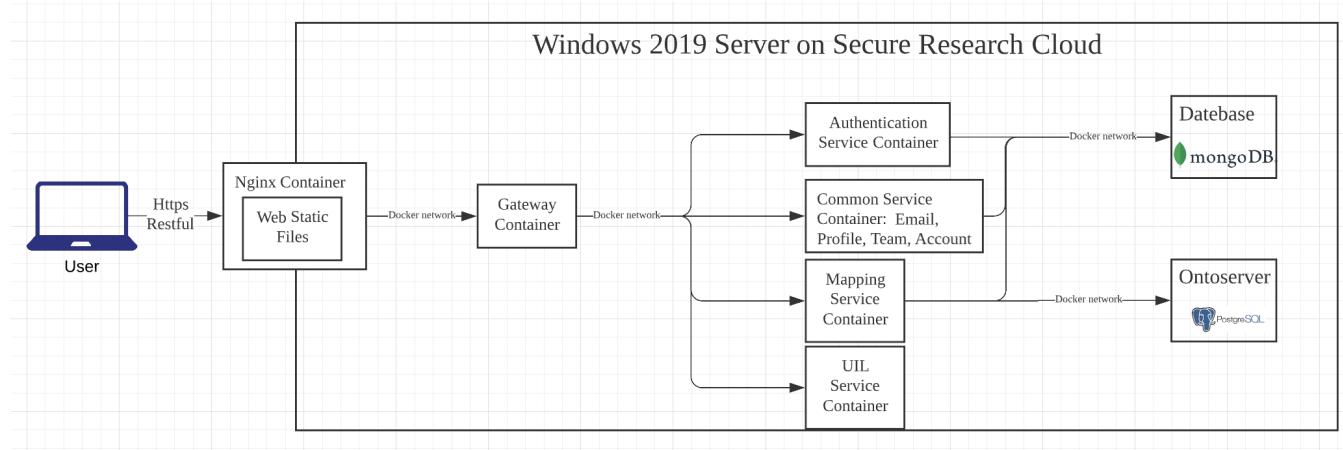
Ansible's playbooks are idempotent, meaning they can be run multiple times without causing unintended side effects. This ensures consistent and predictable results when applying configuration changes.

[More about Ansible](#)

4+1 Architecture Models

Title	Creator	Modified
Sequence Diagrams	KUNXI SUN	yesterday at 3:10 PM
System Diagram	KUNXI SUN	29 Apr, 2023
Container Diagram	KUNXI SUN	28 Apr, 2023
State Diagram	KUNXI SUN	27 Apr, 2023
Database Model	KUNXI SUN	27 Apr, 2023

Container Diagram



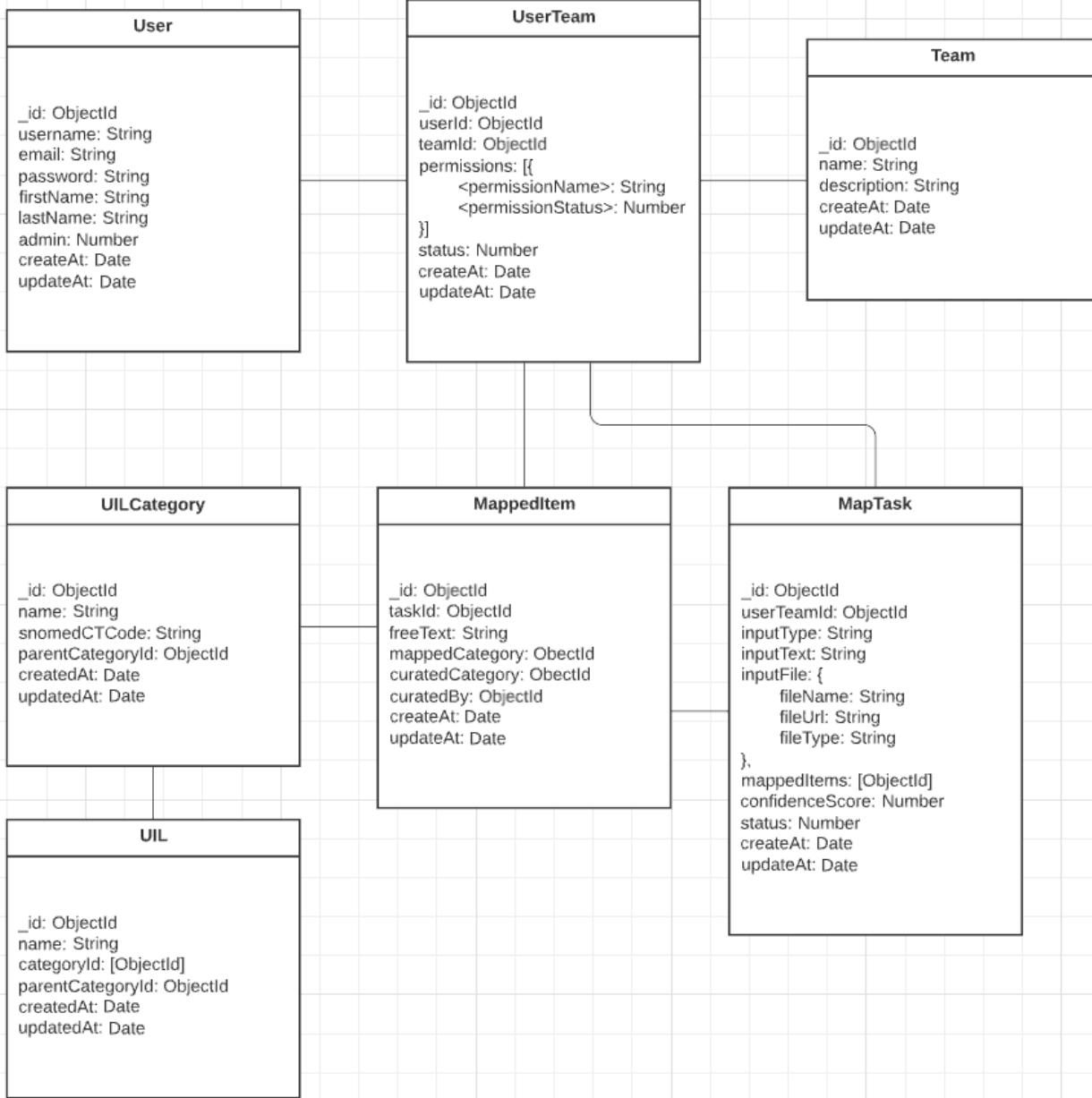
Database Model

Version	Description	Date
Version 1.0.0	1. Basic MongoDB data models with basic relations	April 24, 2023

Version 1.0.0

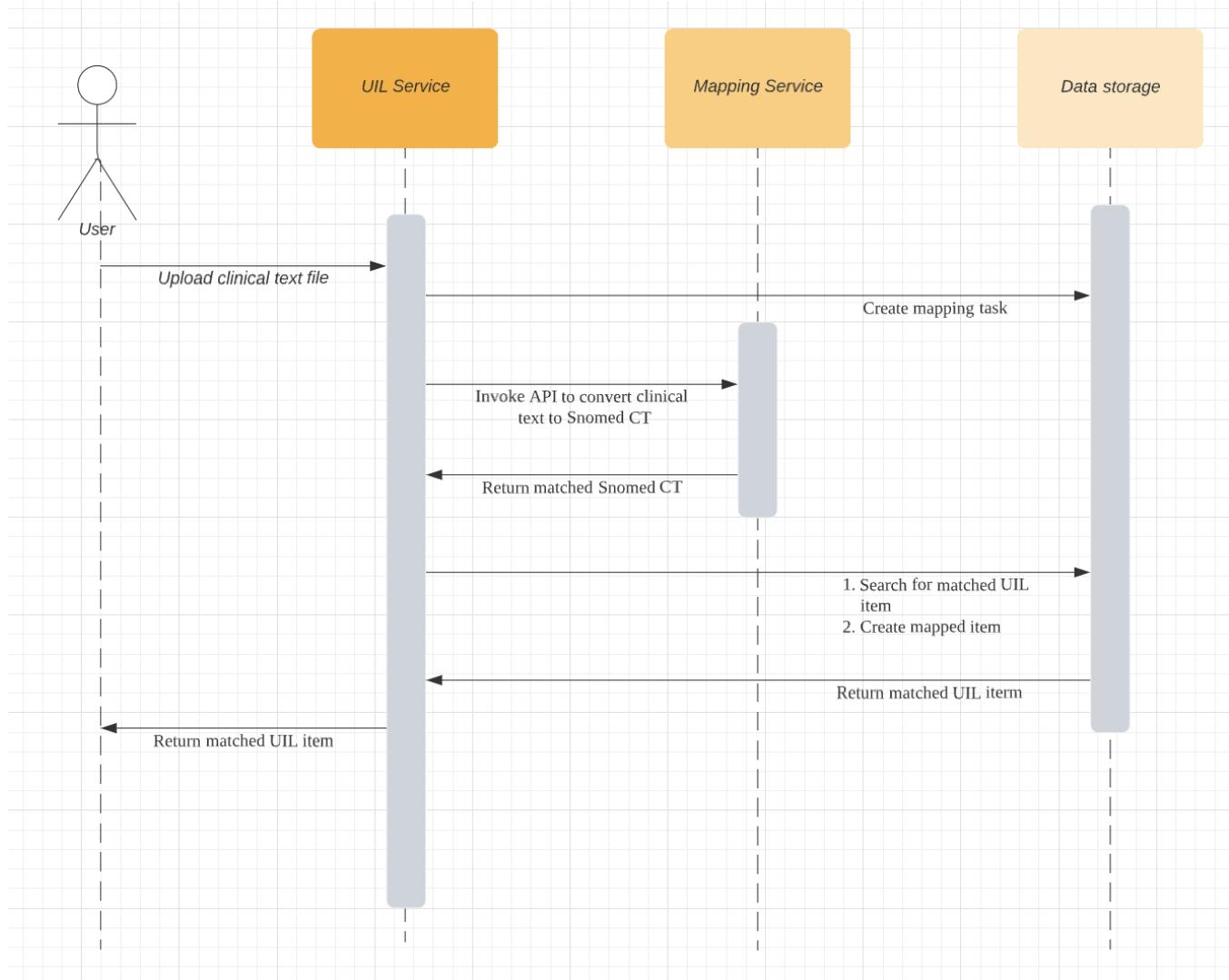
Database Model - MongoDB

KUNXI SUN | April 24, 2023

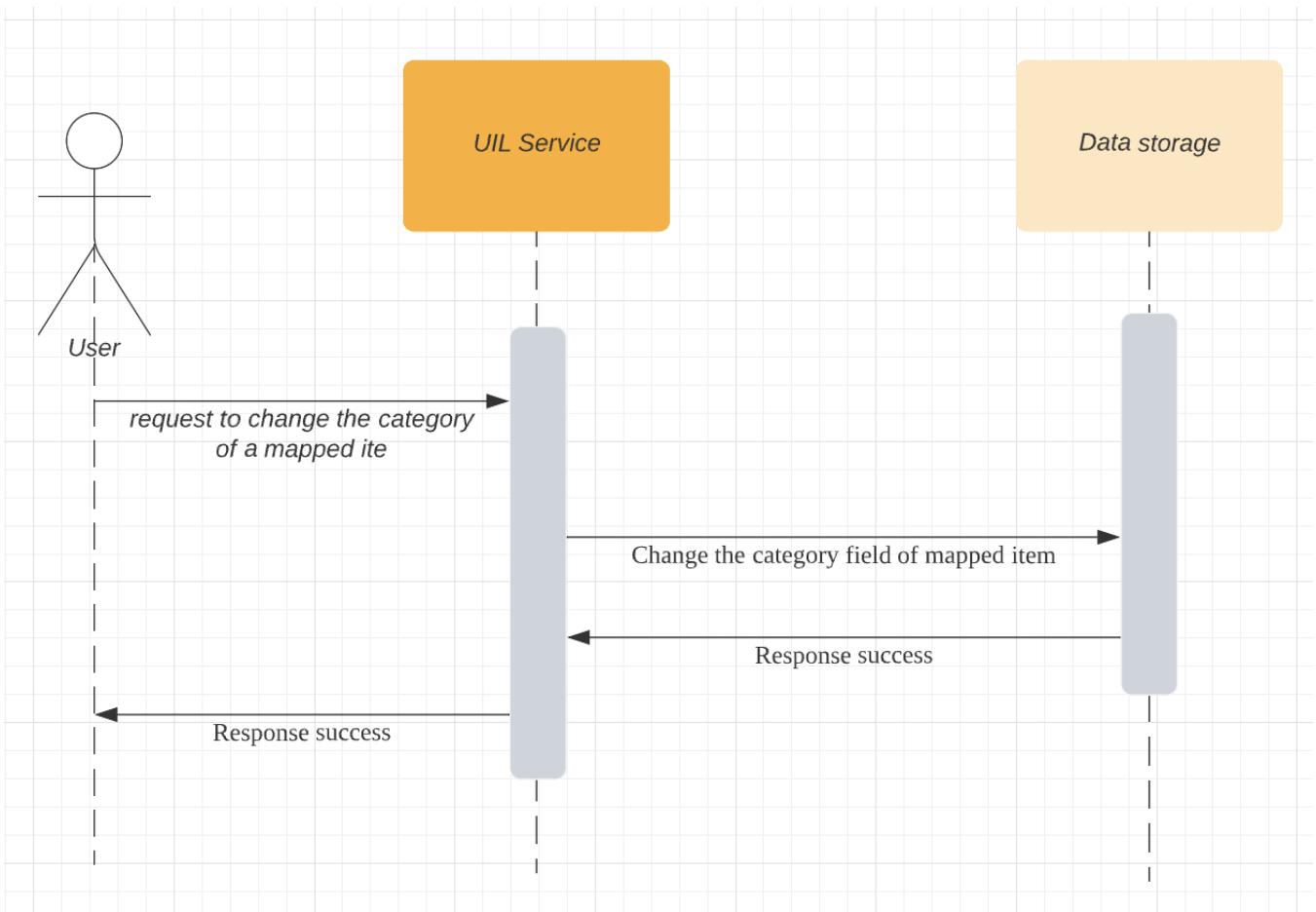


Sequence Diagrams

Mapping Sequence



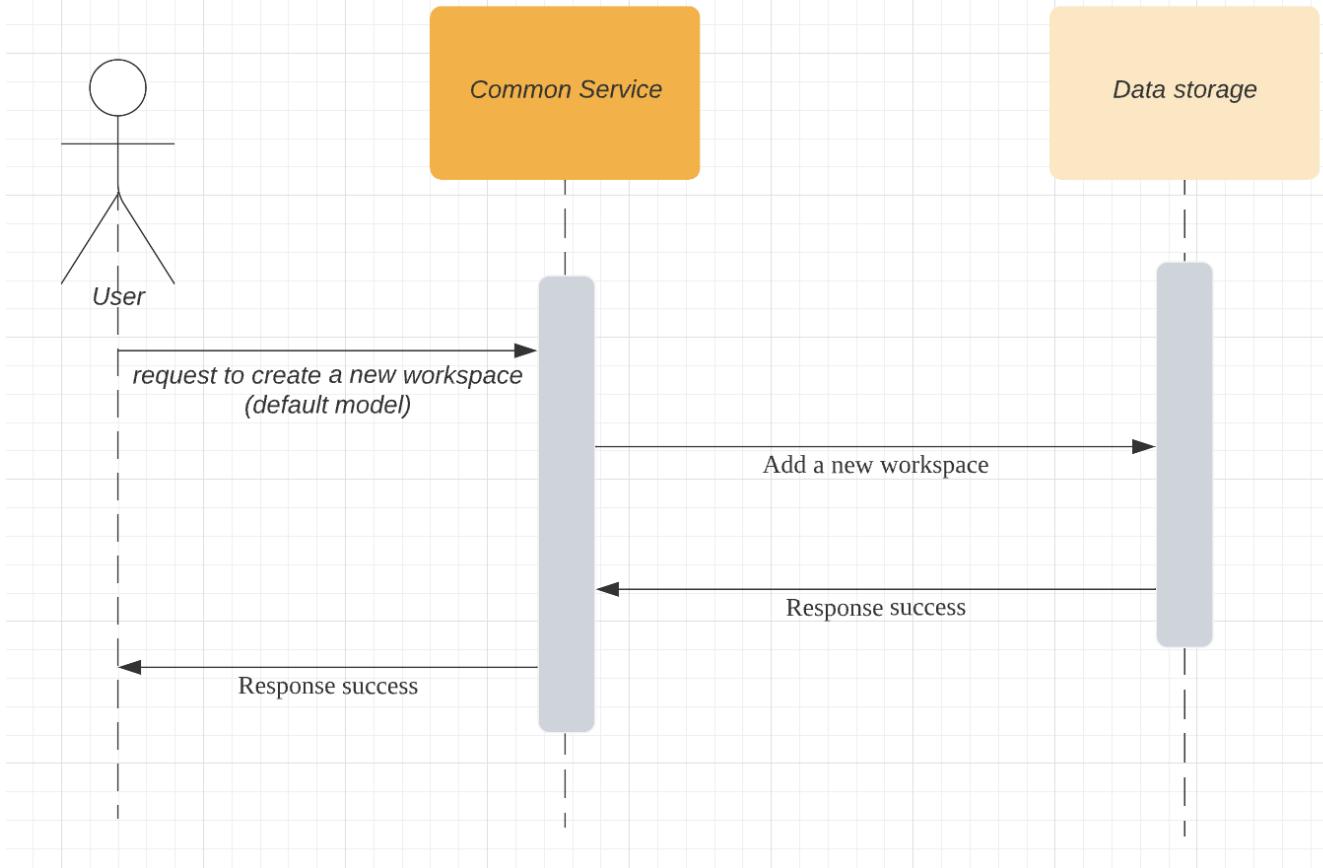
Curate Sequence



Rollback/Default System Sequence

Go back to default system Diagram

KUNXI SUN | April 30, 2023



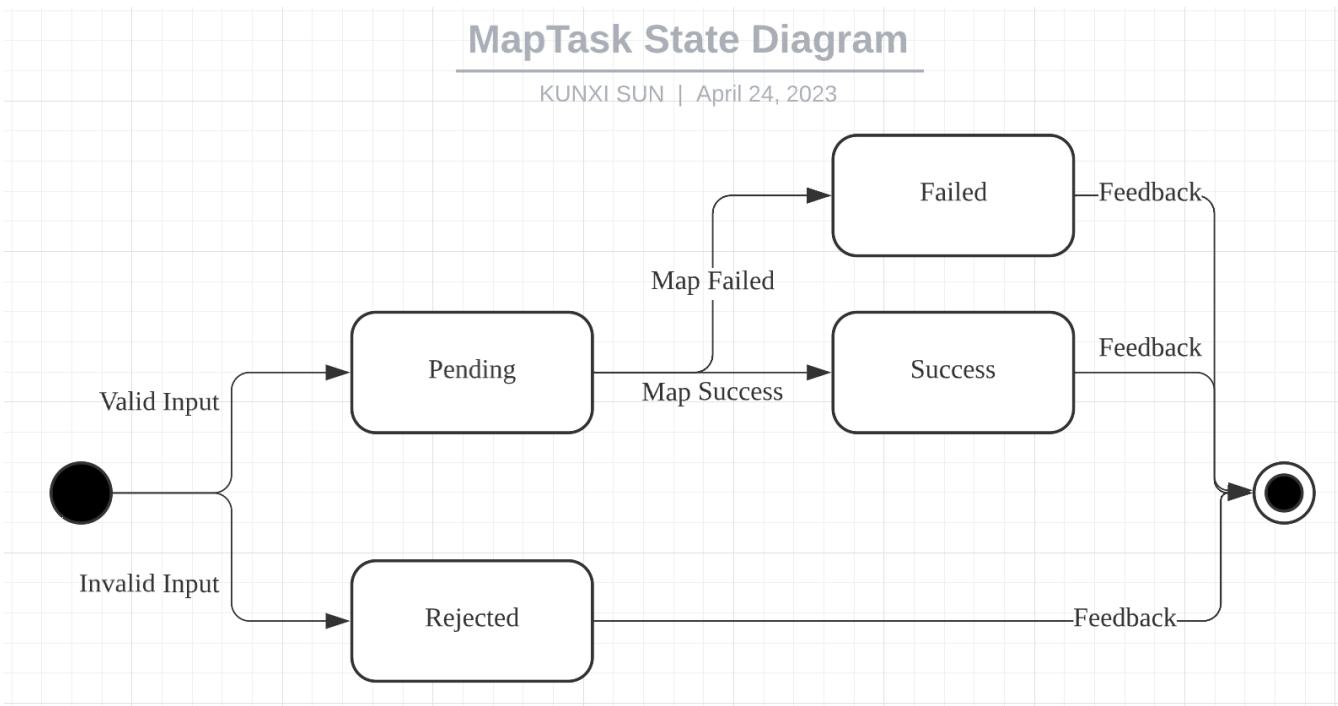
State Diagram

Version	Description	Date
1.0.0	1. Map Task State Diagram	April 24, 2023

Version 1.0.0

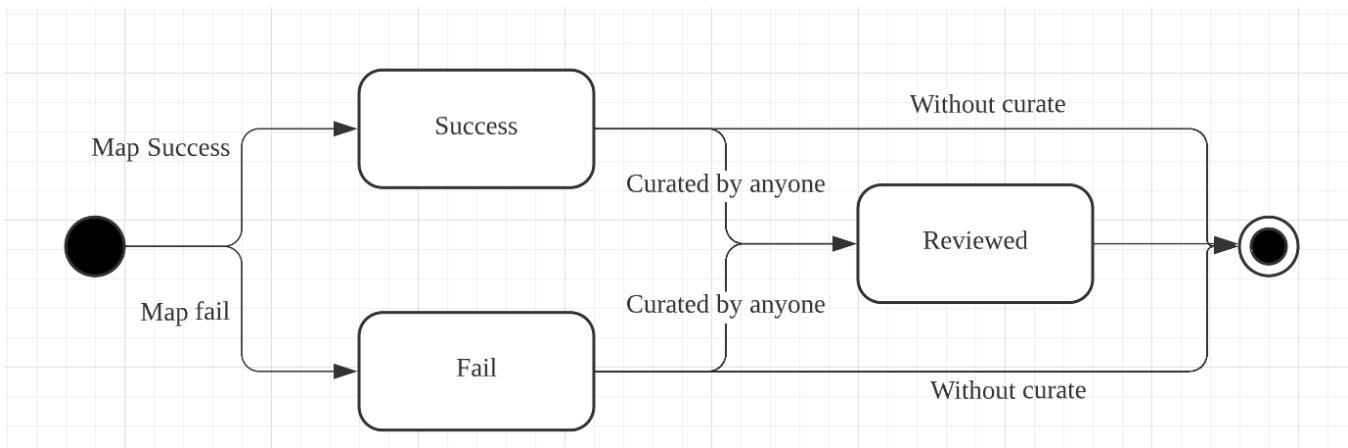
MapTask Status

Status Name	Status Number	Description
Pending	0	Waiting for task to finish
Success	1	Task success
Rejected	2	Task rejected due to invalid input or other reasons which cause the task did not start
Failed	3	ask failed during mapping for any reasons



Mapped Item Status

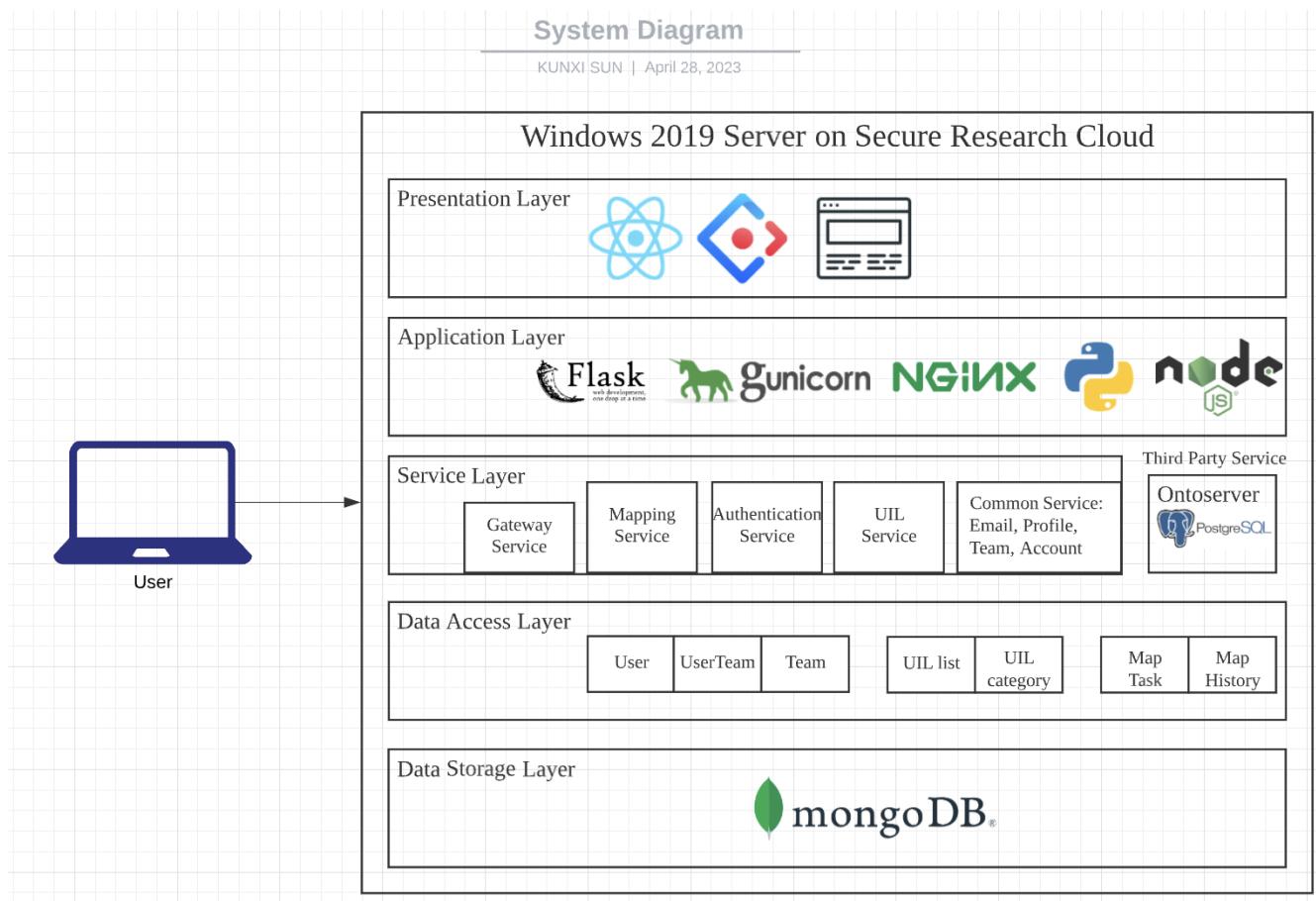
Status Name	Status Number	Description
Fail	0	Mapping system failed to map this raw text
Success	1	Mapping system map this item successfully
Reviewed	2	This raw text has been curated by user



System Diagram

Version	Description	Date
2.1.0	1. Add UIL service	April 28, 2023
2.0.0	1. Change the system diagram into a standard layers structure	April 24, 2023
1.0.0	1. Basic system diagram with modules	March 23, 2023

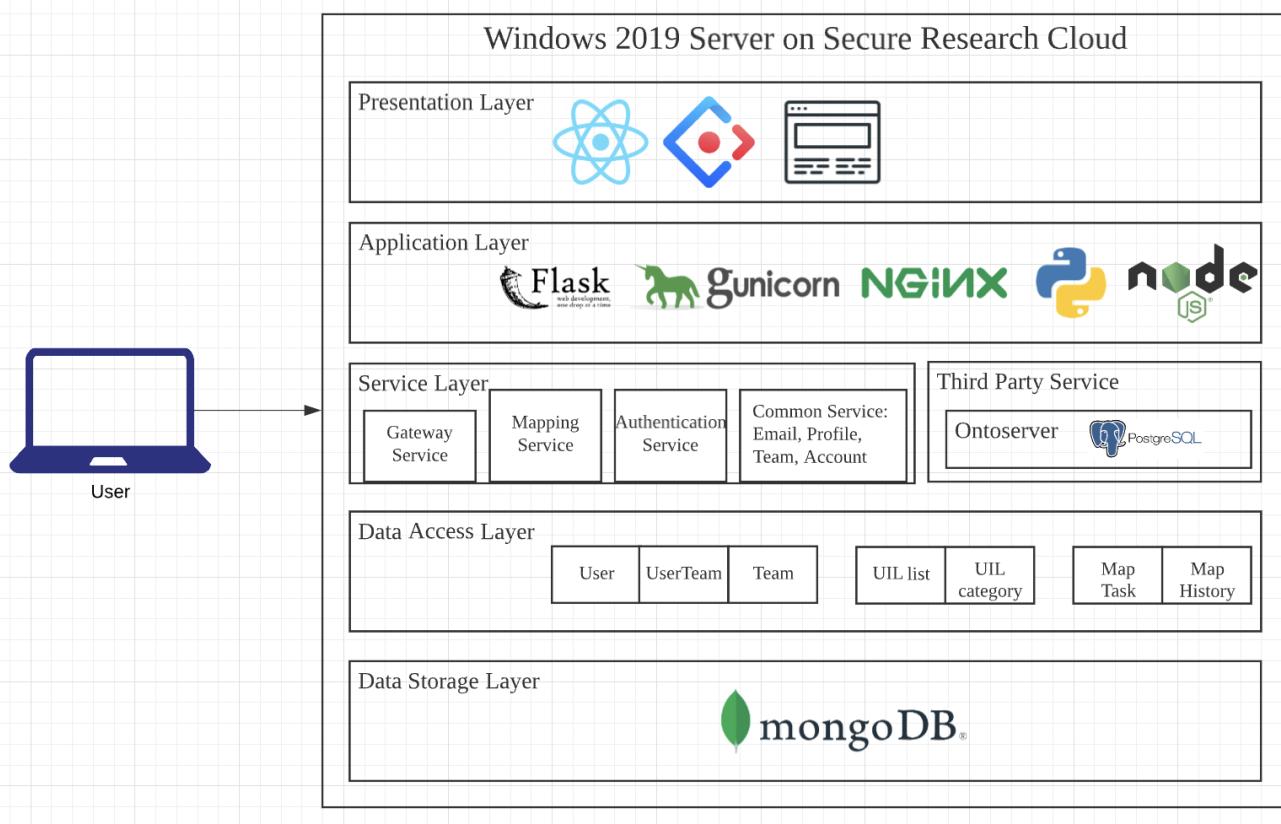
Version 2.1.0



Version 2.0.0

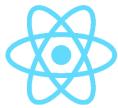
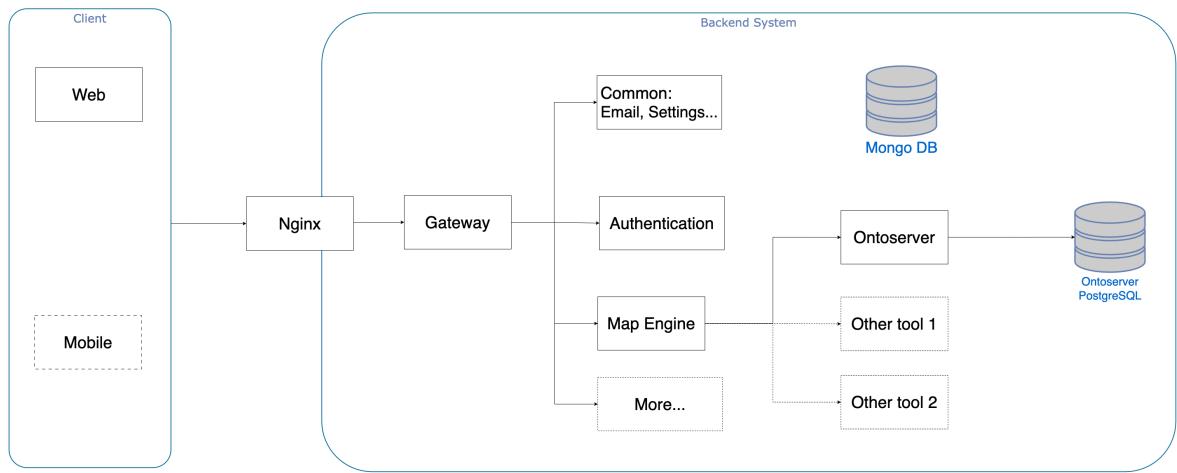
System Diagram

KUNXI SUN | April 25, 2023



Version 1.0.0

System Architecture Diagram



Flask



Quality

This page contains documentation related to quality control.

Title	Creator	Modified
Test Plan	Ricardo Luo	yesterday at 2:05 PM
CI/CD	KUNXI SUN	29 Apr, 2023
Issue Tracking	Hanyi Gao	29 Apr, 2023
Test Cases	KUNXI SUN	29 Apr, 2023
Test Reports	KUNXI SUN	29 Apr, 2023
Code Reviews	KUNXI SUN	29 Apr, 2023

Test Plan

1 Introduction

The objective of this test plan is to outline the testing strategy for the given project, which involves mapping short text into the terms of a Universal Indication List (UIL), curating and updating the mappings, and providing a real-time dashboard to monitor the mapping metrics. The plan will cover Unit Test, Functional Test, Integration Test, and System Test.

The project development will focus on two prevalent development strategy: [Behaviour Driven Development\(BDD\)](#) and [Test Driven Development\(TDD\)](#).

2 Test Objectives

- Ensure that all user stories are implemented correctly
- Verify that the project meets the functional and non-functional requirements
- Validate that the system performs as expected under different conditions
- Identify any defects or issues in the software

3 Test Strategy

3.1 Unit Test

Unit tests will focus on testing individual components, functions, and classes in isolation. These tests will help identify issues at the code level.

1. Map short text into the terms of UIL (US0001)
 - Test input validation for short texts
 - Test mapping of different types of short texts to UIL terms
2. Download the mapping result (US0002)
 - Test downloading of different file formats (e.g. CSV, JSON)
3. Identify unrecognized results in the mapping process (US0004)
 - Test the identification of unrecognized results in different situations
4. Filter incorrect mappings by confidence (US0005)
 - Test filtering functionality with different confidence thresholds
5. Curate incorrect mapping (US0006)
 - Test the editing and updating of incorrect mappings
6. View category options for mapped items (US0007)
 - Test the display and navigation of category options
7. Retrain the system from curating (US0008)
 - Test the retraining process after curating incorrect mappings
8. Update the version of UIL (US0025)
 - Test updating the UIL version and ensure backward compatibility
9. Account login (US0019)
 - Test user authentication and validation
10. Edit personal information (US0020)
 - Test the editing and updating of user information
11. Add new user account (US0021)
 - Test the creation of new user accounts
12. Add member to team (US0023)
 - Test adding members to the team
13. Remove member from team (US0024)
 - Test removing members from the team

3.2 Functional Test

Functional tests will focus on validating the functionality of the project according to the user stories.

1. Test mapping process (US0001, US0004)
 - Test the mapping of short texts to UIL terms with various inputs and scenarios
2. Test mapping results management (US0002, US0005, US0006)
 - Test downloading, filtering, and curating of mapping results
3. Test mapping dashboard (US0010-US0018)
 - Test the display of mapping metrics, filtering options, and performance history

4. Test user management (US0019-US0024)
 - Test user authentication, account creation, and team management

3.3 Integration Test

Integration tests will focus on testing the interaction between different components and modules of the project.

1. Test the interaction between mapping components (US0001, US0004, US0005, US0006)
 - Test the end-to-end process of mapping, identifying unrecognized results, filtering, and curating
2. Test the interaction between dashboard components (US0010-US0018)
 - Test the display and updating of mapping metrics and performance history
3. Test the interaction between user management components (US0019-US0024)
 - Test the integration of user authentication, account creation, and team management

3.4 System Test

System Test will test the complete system, including its performance, reliability, and security. We will focus on testing the complete system as a whole.

1. Test the system's performance under various load conditions
2. Test the system's reliability by simulating different failure scenarios
3. Test the system's security by simulating various attack scenarios
4. Test Environment and Resources

Behaviour Driven Development

Behaviour Driven Development (BDD) is a software development methodology that emphasises collaboration between developers, QA, and non-technical participants in a software project. BDD encourages teams to use conversation and concrete examples to formalise a shared understanding of how the application should behave. [Acceptance Criteria](#) are created based on BDD, and corresponding acceptance criteria tests will be held based on the system behaviour. Test plans in BDD use Given-When-Then statements to describe the scenarios and expected outcomes of system. Our BDD test plan, as well as acceptance test, is as follows:

1.

Feature: Text Mapping

Scenario: Map short text to UIL categories

Given a short text input

When the system processes the input

Then the short text is mapped to one or more UIL categories

2.

Feature: Download Mapping Results

Scenario: Download the mapping results for future reference

Given a completed mapping task

When the user requests to download the mapping results

Then the user receives a downloadable file containing the mapping results

3.

Feature: Mapping Task History

Scenario: View previous mapping tasks and results

Given a user with previous mapping tasks

When the user accesses their task history

Then the user can view their own and team members' previous mapping tasks and results

4.

Feature: Mapping Process Status

Scenario: Identify the status of the mapping process for raw text input

Given a list of raw text inputs

When the user views the mapping process status

Then the user can quickly determine if further curation or review is needed for each input

5.

Feature: Category Options

Scenario: View category options while curating data

Given a list of mapped items

When the user curates the data

Then the user can view and choose from a list of category options for each item

6.

Feature: Curate Mapping Results

Scenario: Review and curate failed or incomplete mapping results

Given a list of failed or incomplete mapping results

When the user curates the data

Then the user can review and modify the mapping results for accuracy

7.

Feature: Retrain System Scenario: Retrain the system using curated data

Given a set of curated data

When the user retrains the system

Then the system's mapping performance is improved

8.

Feature: Update UIL Version

Scenario: Update the UIL to the latest version

Given an admin user

When the user updates the UIL version

Then the system has access to the most up-to-date UIL terms

9.

Feature: Dashboard and Metrics

Scenario: Display mapping metrics on a dashboard

Given a completed mapping task

When the user views the dashboard

Then the user can see various mapping metrics for analysis

10.

Feature: Successful Mapping Rate and Mapped Items

Scenario: View the successful mapping rate and the number of mapped items

Given a completed mapping task

When the user views the dashboard

Then the user can see the successful mapping rate and the number of mapped items

11.

Feature: Overall Confidence

Scenario: View the overall confidence in mapping results

Given a completed mapping task

When the user views the dashboard

Then the user can see the overall confidence in the mapping results

12.

Feature: Category Performance Metrics

Scenario: View specific performance metrics for each category

Given a completed mapping task

When the user views the dashboard

Then the user can see the specific performance of each category

13.

Feature: Proportion of Each Category

Scenario: View the proportion of each category in the dataset

Given a completed mapping task

When the user views the dashboard

Then the user can see the proportion of each category in the dataset

14.

Feature: Visualize Mapping Performance History

Scenario: Visualize the history of the mapping performance

Given a user with previous mapping tasks

When the user views the mapping performance history

Then the user can visualize the historical mapping performance for analysis

15.

Feature: Rollback System Version

Scenario: Roll back to an earlier system version

Given an admin user

When the user initiates a rollback to an earlier version

Then the system is restored to the specified earlier version

16.

Feature: Account Login

Scenario: Log in to a user account

Given a registered user

When the user logs in with their credentials

Then the user is granted access to their account

17.

Feature: Edit Personal Information

Scenario: Update personal information, roles, and responsibilities

Given a logged-in user

When the user edits their personal information

Then the system updates the user's roles and responsibilities accordingly

18.

Feature: Add New User Account

Scenario: Add a new user account to the system

Given an admin user

When the admin creates a new user account

Then the new user account is added to the system and the new user can log in

19.

Feature: Add Member to Team

Scenario: Add a user account to a team

Given an admin user and a user account

When the admin adds the user account to a team

Then the user account becomes a member of the specified team

20.

Feature: Remove Member from Team

Scenario: Remove a user account from a team

Given an admin user and a user account that is part of a team

When the admin removes the user account from the team

Then the user account is no longer part of the specified team and loses team privileges

Test Driven Development

Test Driven Development (TDD) is a software development methodology that involves writing tests before writing the code to be tested. The test plan for your project will outline the testing requirements and steps for each feature or user story. Our TDD test plan is as follows:

1. Text Mapping:

- Test: Map a short text input to one or more UIL categories.
- Requirement: Input validation, UIL mapping function, and mapping result.

2. Download Mapping Results:

- Test: Download the mapping results as a file.
- Requirement: Completed mapping task, download functionality, and file format.

3. Mapping Task History:

- Test: Access and view previous mapping tasks and results.
- Requirement: User authentication, task history storage, and display functionality.

4. Mapping Process Status:

- Test: Identify the status of the mapping process for raw text input.
- Requirement: Mapping status determination and display functionality.

5. Category Options:

- Test: View and select category options while curating data.
- Requirement: Category list, display functionality, and selection functionality.

6. Curate Mapping Results:

- Test: Review and modify failed or incomplete mapping results.
- Requirement: List of failed or incomplete mapping results, display functionality, and curation functionality.

7. Retrain System:

- Test: Retrain the system using curated data to improve performance.
- Requirement: Curated data, machine learning model, and retraining functionality.

8. Update UIL Version:

- Test: Update the UIL to the latest version.
- Requirement: Admin authentication, UIL version management, and update functionality.

9. Dashboard and Metrics:

- Test: Display various mapping metrics on a dashboard.
- Requirement: Completed mapping task, dashboard functionality, and metric calculation.

10. Successful Mapping Rate and Mapped Items:

- Test: View the successful mapping rate and the number of mapped items.
- Requirement: Completed mapping task, dashboard functionality, and metric calculation.

11. Overall Confidence:

- Test: View the overall confidence in mapping results.
- Requirement: Completed mapping task, dashboard functionality, and metric calculation.

12. Category Performance Metrics:

- Test: View specific performance metrics for each category.
- Requirement: Completed mapping task, dashboard functionality, and metric calculation.

13. Proportion of Each Category:

- Test: View the proportion of each category in the dataset.
- Requirement: Completed mapping task, dashboard functionality, and metric calculation.

14. Visualize Mapping Performance History:

- Test: Visualize the history of mapping performance.
- Requirement: Mapping task history, visualization functionality, and metric calculation.

15. Rollback System Version:

- Test: Roll back to an earlier system version.
- Requirement: Admin authentication, version management, and rollback functionality.

16. Account Login:

- Test: Log in to a user account.
- Requirement: User authentication, login functionality, and account management.

17. Edit Personal Information:

- Test: Update personal information, roles, and responsibilities.
- Requirement: User authentication, personal information management, and role management.

18. Add New User Account:

- Test: Add a new user account to the system.
- Requirement: Admin authentication, account creation functionality, and account management.

19. Add Member to Team:

- Test: Add a user account to a team.
- Requirement: Admin authentication, team management functionality, and account management.

20. Remove Member from Team:

- Test: Remove a user account from a team.
- Requirement: Admin authentication, team management functionality, and account management.

For each feature or user story, you should create tests that check for both successful and unsuccessful outcomes, including edge cases and unexpected inputs. These tests will help ensure that your application is robust, reliable, and meets the requirements of the project. Implementing these tests before writing the code will guide your development and help you focus on creating well-structured and maintainable code.

Test Cases

Title	Creator	Modified
TC0008 - Security	KUNXI SUN	yesterday at 2:14 PM
TC0007 - Team Management	KUNXI SUN	yesterday at 12:51 PM
TC0005 - Curate Mapping Result	KUNXI SUN	yesterday at 11:29 AM
TC0004 - Visualise Mapping Result	KUNXI SUN	yesterday at 11:29 AM
TC0003 - Mapping Clinical Raw Text	Hanyi Gao	yesterday at 11:29 AM
TC0006 - Rollback to Default System	KUNXI SUN	29 Apr, 2023
TC0002 - Upload & Download files	Hanyi Gao	29 Apr, 2023
TC0001 - Authentication & Authorization	KUNXI SUN	29 Apr, 2023

TC0001 - Authentication & Authorization

ID	Description	Category	Test Steps	Prerequisites	Expected Results	Note
TC001-1	Login with a correct email and password	Manage Account	1. Enter user's email 2. Enter user's password 3. Click 'Login' button	1. user is invited in the team	The user has logged into the system successfully. Navigate to the main page	Email: diboxjelly@gmail.com Password: 12345678
TC001-2	Login with an email that does not exist	Manage Account	1. Enter a non-existing email 2. Enter any password 3. Click 'Login' button	-	The user should not log into the system. The system should give a notification telling the user that the email does not exist	Email: email@noexist.com Password: 12345678
TC001-3	Login with an exist email but wrong password	Manage Account	1. Enter a existing email 2. Enter a wrong password 3. Click 'Login' button	1. user is invited in the team	The user should not log into the system. The system should give a notification telling the user that the password is wrong	Email: diboxjelly@gmail.com Password: wrongpassword
TC001-4	Logout	Manage Account	1. Move mouse to the username on the top right 2. Click 'Sign out' in the dropdown menu	1. TC0001-1	The user has logged out successfully. Navigate to the Login page	

TC0002 - Upload & Download files

ID	Description	Category	Test Steps	Prerequisites	Expected Results	Note
TC0002-1	Upload a CSV file	Map free text	<ol style="list-style-type: none">1. Click the Browse button in the upload area2. Select a CSV file	1. TC0001-1	<p>Only the CSV file can be selected.</p> <p>The selected file name should be rendered in the uploaded area</p>	

TC0003 - Mapping Clinical Raw Text

ID	Description	Category	Test Steps	Prerequisites	Expected Results	Note
TC003-1	Map the CSV file in inference mode	Map free text	1. Click the Inference radio button 2. Click Map button	1. TC0002-1 2. the uploaded CSV file is in a correct format	Navigate to the mapping result inference mode page The table at the mapping result page should show the relevant result	The header of the CSV file should be Text
TC003-2	Map the CSV file in training mode	Map free text	1. Click the Training radio button 2. Click Map button	1. TC0002-1 2. the uploaded CSV file is in a correct format	Navigate to the mapping result training mode page The table at the mapping result page should show the relevant result	The header of the CSV file should be Text
TC003-3	Map the CSV file that has a wrong format	Map free text	1. Click Map button	1. TC0002-1 2. the uploaded CSV file is in a wrong format	Mapping should fail. The system should give a notification that the CSV format is wrong	
TC003-4	View mapping task history	Map free text	1. Click Retain History on the side bar	1. TC0001-1 2. The team or researcher has had a mapping task before.	History mapping task is shown on the webpage.	

TC0004 - Visualise Mapping Result

ID	Description	Category	Test Steps	Prerequisites	Expected Results	Note
TC004-01	Have a dashboard to display the mapping metrics	Mapping Visualisation	1. Click on the dashboard icon	1. TC0004-2 2. Mapping is successful	Dashboard is shown on the right side drawer.	
TC004-02	View the successful mapping rate and number of mapped items	Mapping Visualisation	1. Click on the dashboard icon	1. TC0004-2 2. Mapping is successful	Mapping rate and number of mapped items are shown on the right side drawer.	
TC004-03	View the overall confidence	Mapping Visualisation	1. Click on the dashboard icon	1. TC0004-2 2. Mapping is successful	Overall confidence is shown on the right side drawer.	
TC004-04	View the Specific Performance On Each Category	Mapping Visualisation	1. Click on the dashboard icon 2. Then click the confidence button on the right side drawer.	1. TC0004-2 2. Mapping is successful	Specific performance of each category on the right side drawer.	
TC004-05	View the Proportion of Each Category	Mapping Visualisation	1. Click on the dashboard icon	1. TC0004-2 2. Mapping is successful	Ring Chart indicates proportion of each category is shown on the right side drawer.	
TC004-06	Visualize Mapping Performance History	History Visualisation	1. Click on History States on the left side bar 2. Click on the Mapping History below the History States section	1. Have successful mapping results before	Mapping history dashboard is shown on the web page.	
TC004-07	Filter Mapping History by Date Range	History Visualisation	1. Select the date range on the webpage	1. TC0004-06	Mapping History within the selected date range is shown on the web page.	
TC004-08	Filter Mapping History by User	History Visualisation	1. Select the user on the webpage	1. TC0004-06	Mapping History within the selected user is shown on the web page.	
TC004-09	Rollback to Earlier System Version	History Visualisation	1. Click on the roll back button on the mapping diagram	1. TC0004-06	Roll back to the selected version.	

TC0005 - Curate Mapping Result

ID	Description	Category	Test Steps	Prerequisites	Expected Results	Note
TC0005-1	View Category Options for Mapped Items and curate	Curate the mapping and re-train the system	<ol style="list-style-type: none"> Click 'Curate' icon in the action column Select a category in the dropdown Click 'Save' to curate the result 	TC0003-2	<ol style="list-style-type: none"> Able to see all the UIL categories in the dropdown The status becomes 'reviewed' after saving the curated category 	
TC0005-2	The system is retrained after curating the result	Curate the mapping and re-train the system	<ol style="list-style-type: none"> Curate a mapping Click 'Retrain' button Do the mapping again 	TC0005-1	The system is retrained and the new mapping should show the results that are curated last time	

TC0006 - Rollback to Default System

ID	Description	Category	Test Steps	Prerequisites	Expected Results	Note
TC0006-1	Rollback the mapping system	Implement mapping history visualization	<ol style="list-style-type: none">1. Click 'Mapping Stats' section2. Click 'Mapping History' subsection3. Click 'Rollback to Default' button beyond mapping history monitoring timeline4. Click 'Confirm' button	1. user is admin	The user has rolled back the system successfully. Navigate to the main page.	Email: diboxjelly@gmail.com Password: 12345678

TC0007 - Team Management

ID	Description	Category	Test Steps	Prerequisites	Expected Results	Note
TC008-1	Create a team	Manage team	<ol style="list-style-type: none"> Click the "Create Team" button Enter the name of the team Click the "Confirm" button 	<ol style="list-style-type: none"> The admin user has successfully logged in 	The system shows a new team page, which means that the admin user successfully creates a team.	The team name should not be empty.
TC008-2	Add a team member to a team	Manage team	<ol style="list-style-type: none"> Select a user Click the "Add to a team" button View the list of all team names Select a team from the team list Click the "Confirm" button 	<ol style="list-style-type: none"> The admin user has successfully logged in A team exists The team is not full 	A new user appears on the team page, which means that the user has been successfully added to a team.	The admin can only add one user to a team in one operation.
TC008-3	Remove a team member from a team	Manage team	<ol style="list-style-type: none"> Select a team Select a team member from the team Click the "Remove from the team" button Click the "Confirm" button 	<ol style="list-style-type: none"> The admin user has successfully logged in A team exists The team is not empty 	The user no longer appears on the team page which means that the user has been successfully removed from the team.	The admin can remove multiple users from a team in one operation.

TC0008 - Security

ID	Description	Category	Test Steps	Prerequisites	Expected Results	Note
TC008-1	API should be protected	-	<ol style="list-style-type: none"> Without using access token from login URL Use all request method(POST/GET /UPDATE/DELETE) to all API with protected resource 	1. Does not log in	1. The API does not return any data without access token	Sensitive data can only be seen after log in
TC008-2	System can safely rollback /default system setting without losing data	-	<ol style="list-style-type: none"> System create a new workspace (empty mapping history). Check the previous mapping history, and the history did not lose. 	1. User log in	1. Check the previous workspace, and the mapping history will not lose.	Data will never lose

Test Reports

Title	Creator	Modified
2023-04-28 Functional Test	KUNXI SUN	29 Apr, 2023

2023-04-28 Functional Test

Tester	Hanyi Gao
Date	27 Apr 2023

Test cases	Test Case ID	Status	Note
Test Cases - Authentication&Authorization	TC0001-1	PASS	
	TC0001-2	FAIL	see (Unsolved) ISSUE0001: Login incorrect error message
	TC0001-3	FAIL	see (Unsolved) ISSUE0001: Login incorrect error message
	TC0001-4	PASS	
TC0001 - Upload&Download files	TC0002-1	PASS	
TC0003 - Mapping Clinical Raw Text	TC0003-1	PASS	
	TC0003-2	PASS	
	TC0003-3	PASS	
TC0004 - Visualise Mapping Result		DEVELOPING	
TC0005 - Curate Mapping Result	TC0005-1	PASS	
	TC0005-2	DEVELOPING	
TC0007 - Team management		DEVELOPING	
TC0006 - Rollback to Default System	TC0006-1	DEVELOPING	
TC0008 - Security	TC0008-1	PASS	

Code Reviews

Title	Creator	Modified
2023-04-27 Code Review Report - BackEnd	KUNXI SUN	22 minutes ago
2023-04-27 Code Review Report - FrontEnd	Yue Fei	29 Apr, 2023

2023-04-27 Code Review Report - BackEnd

Code review information

Date	27 Apr 2023
Reviewer	Yue Fei
Author	KUNXI SUN
Code Repository / Branch	DI-Boxjelly/src/

Code review spreadsheet

Issue ID	Artifact(on Github)	Location	Severity	Type	Defects Category	Description	Fixed by the author?	Verified by the moderator?
BE01-01	DI-Boxjelly/src/di-auth/app/api/register.py	class EmailRegister (Resource) Function post	Trivial	Improvement	Check Defects	Add password strength validation.	No	No
BE01-02	DI-Boxjelly/src/di-auth/app/api/register.py	class EmailRegister (Resource) Function post	Medium	Improvement	Logic Defects	Add failure model of MongoDB.	No	No
BE01-03	DI-Boxjelly/src/di-auth/app/api/register.py	class EmailRegister (Resource) Function post	Trivial	Improvement	Structure Defects	Consider defining a function or class method to break down to the smaller function for validating the length and format of input data.	No	No
BE01-04	DI-Boxjelly/src/di-auth/app/api/login.py	class EmailLogin (Resource) Function post	High	Issue	Check Defects	Consider changing the error code when the email or password is incorrect from 404 or 401 to 200.	No	No
BE01-05	DI-Boxjelly/src/di-common/app/api/email.py	class Mail (Resource)	Trivial	Improvement	Structure Defects	Please delete the dead code.	No	No
BE01-06	DI-Boxjelly/src/di-common/app/api/email.py	class Mail (Resource)	Medium	Improvement	Logic Defects	Add error handling code to catch any exceptions that might be raised while sending the email.	No	No
BE01-07	DI-Boxjelly/src/di-auth DI-Boxjelly/src/di-gateway DI-Boxjelly/src/di-map	All	Trivial	Improvement	Documentation Defects	Add comment to each file.	No	No
BE01-08	DI-Boxjelly/src/di-auth DI-Boxjelly/src/di-gateway DI-Boxjelly/src/di-map	All	Trivial	Improvement	Structure Defects	Please delete dead code.	No	No

Summary and Next Steps

In general, the backend code appears to meet the standards outlined in the checklist, but there are some issues that have been identified and listed above. It would be greatly appreciated if you could kindly take the time to remove any unused code and add comments to the code within the di-common, di-gateway, and di-map folders in order to improve the code's readability and comprehension. Please consider to add some more error handling cases and fix the error code bugs as well.

2023-04-27 Code Review Report - FrontEnd

Code review information

Date	27 Apr 2023
Reviewer	Ricardo Luo
Author	Hanyi Gao
Code Repository / Branch	DI-Boxjelly/src/di-web/src/

Code review spreadsheet

Issue ID	Artifact(on Github)	Location	Severity	Type	Defects Category	Description	Fixed by the author?	Verified by the moderator?
FE01-01	DI-Boxjelly/src/di-web/src/App.js	all	Trivial	Improvement	Documentation Defects	Need more comments to describe the aim of the file and functions	No	No
FE01-02	DI-Boxjelly/src/di-web/src/App.js	function App()	Trivial	Improvement	Visual Representation Defects	There are some instances of long lines which may make the code difficult to read.	No	No
FE01-03	DI-Boxjelly/src/di-web/src/modules/Login/index.jsx	all	Trivial	Improvement	Documentation Defects	Need more comments to describe the aim of the file and functions	No	No
FE01-04	DI-Boxjelly/src/di-web/src/modules/Login/index.jsx	return ()	Trivial	Improvement	New Functionality	Change the class attribute to className in the JSX div elements to fix the React-specific syntax.	No	No
FE01-05	DI-Boxjelly/src/di-web/src/modules/Dashboard/index.jsx	all	Trivial	Improvement	Documentation Defects	Need more comments to describe the aim of the file and functions	No	No
FE01-06	DI-Boxjelly/src/di-web/src/modules/Dashboard/index.jsx	all	Trivial	Improvement	New Functionality	Change the class attribute to className in the JSX div elements to fix the React-specific syntax.	No	No
FE01-07	DI-Boxjelly/src/di-web/src/modules/Dashboard/index.jsx	onProfileClick()	Trivial	Improvement	New Functionality	Implement the profile page navigation in the onProfileClick function, replacing the console.log statement with the appropriate navigation code.	No	No
FE01-08	DI-Boxjelly/src/di-web/src/modules/Mapping/index.jsx	all	Trivial	Improvement	Documentation Defects	Need more comments to describe the aim of the file and functions	No	No
FE01-09	DI-Boxjelly/src/di-web/src/modules/MappingResult/index.js	all	Trivial	Improvement	Documentation Defects	Need more comments to describe the aim of the file and functions	No	No

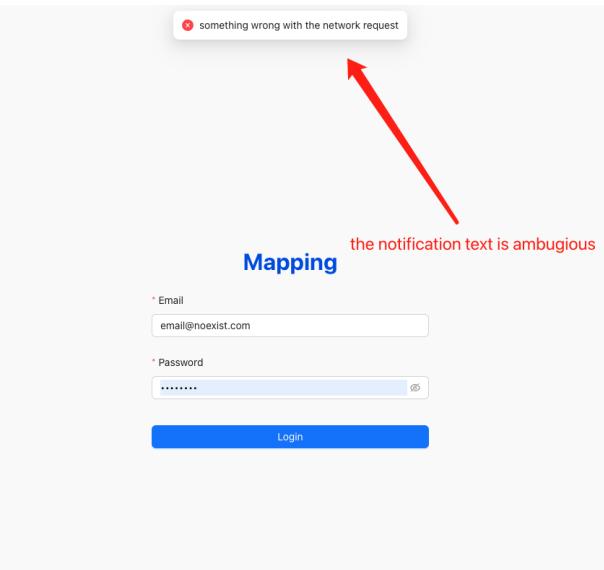
Summary and Next Steps

Overall, the front-end code quality was excellent and met almost all the criteria and requirements in the checklist. Through the code review, we found some minor issues, but most of the code are easy to fix. No major structural or logical issues were found so far, so hopefully we can keep up the good work.

Issue Tracking

Title	Creator	Modified
(Unsolved) ISSUE0001: Login incorrect error message	KUNXI SUN	45 minutes ago

(Unsolved) ISSUE0001: Login incorrect error message

ISSUE0001	<input type="checkbox"/> Login incorrect error message
Status	UNRESOLVED
Assignee	KUNXI SUN
Github Issue link	https://github.com/COMP90082-2023-SM1/DI-Boxjelly/issues/10
Description	<p>Fail to give reasonable notification when the email or password is incorrect.</p>  <p>The screenshot shows a login form with two input fields: 'Email' containing 'email@noexist.com' and 'Password' containing several dots. A blue 'Login' button is at the bottom. Above the form, a small red box contains the text 'something wrong with the network request'. A red arrow points from the text 'the notification text is ambiguous' to this red box.</p> <p>Mapping</p> <p>* Email email@noexist.com</p> <p>* Password</p> <p>Login</p> <p>the notification text is ambiguous</p>

CI/CD

Version	Description	Date
Version 1.0.0	1. Basic CI/CD using Ansible, a short description about how team use Ansible to deploy product	28 Apr 2023

Version 1.0.0

1 Introduction

1.1 Ansible & Github Actions

A Continuous Integration/Continuous Deployment (CI/CD) pipeline is crucial for modern software development, as it helps to automate the process of building, testing, and deploying applications. While we were planning to develop our project, we plan to use Ansible for deploying the product on our development cloud server. The Ansible script has been successfully implemented and tested. In later Sprint, team will try to use Github Actions for automating deployment by merging branches.

- A short description about Ansible can be found in [confluence page](#).
- More details about how to deploy our product on development server can be found on [Github Ansible README](#).

2 Continuous Integration using Github Actions

This is planned in Sprint 3

3 Continuous Deployment for Development environment

Ansible is used to automate the deployment of the application to the development environment. It provisions the cloud server, configures the environment, installs dependencies, and deploys the application.

4 Continuous Deployment for Production environment

As team still did not get the instance from client, therefore, we cannot deploy project on the production environment

5 Monitoring and Feedback

Throughout the CI/CD process, the team monitors the build and deployment status using GitHub Actions logs and notifications. Any failures or issues encountered during the process are addressed and resolved to ensure a smooth and efficient pipeline.

Decisions

Title	Creator	Modified
Version Control	Yue Fei	yesterday at 11:28 AM
Role Assignment	KUNXI SUN	yesterday at 11:26 AM
Use MedCAT	KUNXI SUN	yesterday at 12:51 AM
Technique Stack	KUNXI SUN	28 Apr, 2023

Role Assignment

Name	Preferred Name	Role	Responsibility
Kunxi Sun	Quincy	Product Owner	<ul style="list-style-type: none">• Manage the product backlog• Prototype Design• Github repository setup and management
Chenyang Dong	Peter	Scrum Master	<ul style="list-style-type: none">• Responsible for ensuring that the Scrum framework is followed• Negotiation and communication with Client and Supervisor
Hanyi Gao	Henry	Development Team Member	<ul style="list-style-type: none">• Prototype Design• Determine the architectural decisions
Yulai Luo	Ricardo	Development Team Member	<ul style="list-style-type: none">• Verify that the documents meet the standards and guidelines• Meeting Minutes
Yue Fei	Molly	Development Team Member	<ul style="list-style-type: none">• User experience on prototype• Review the task

Technique Stack

Update:

The **technologies to use in this project** has been decided based on the following technique stack.

Rate the familiarity with the following technologies on a scale from 1 to 5.

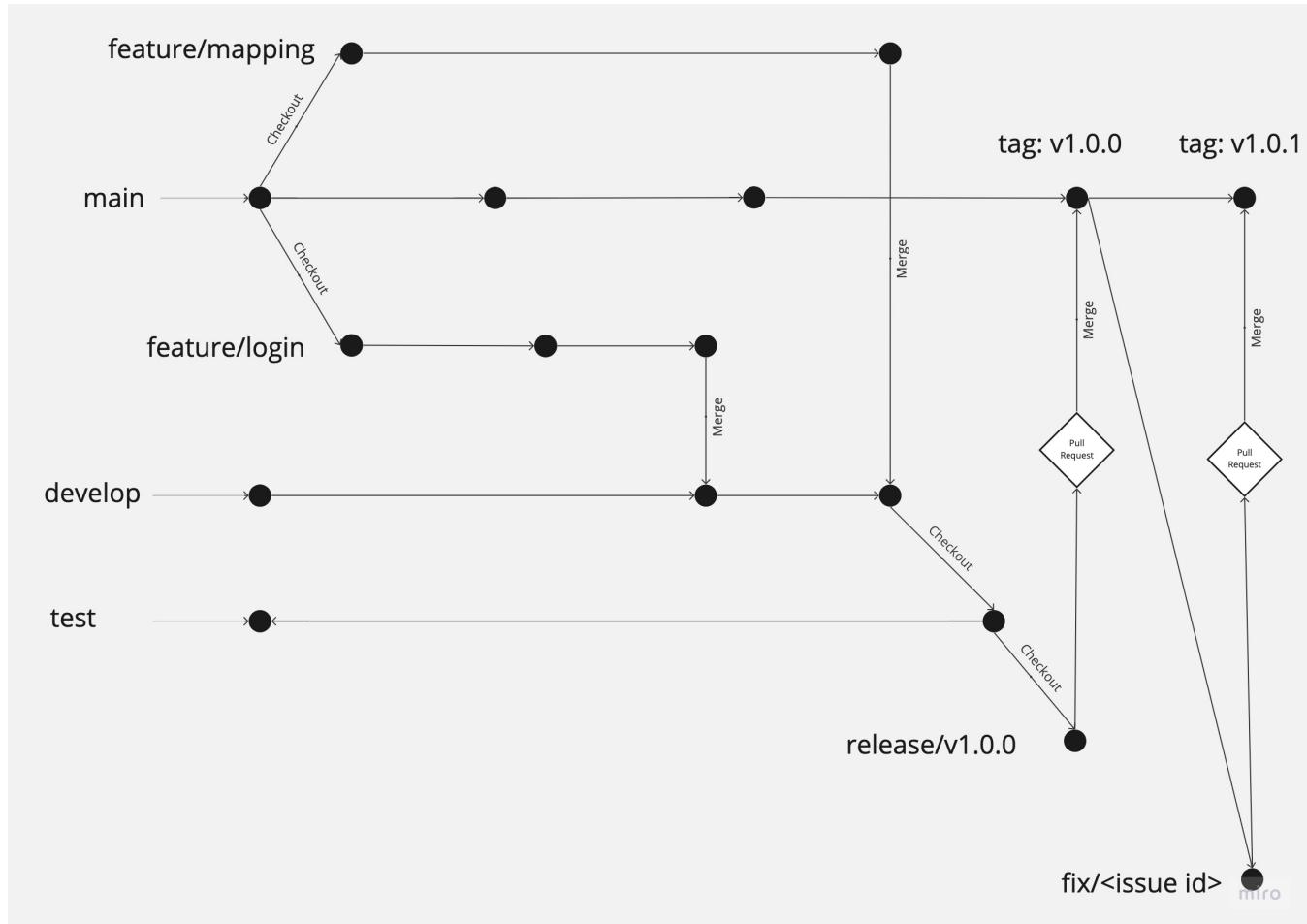
Name	Kunxi Sun	Yulai Luo	Yue Fei	Chenyang Dong	Hanyi Gao
Major	AI	AI	AI	Distributed Computing	Computing
Python	5	4	5	5	3
Java	3	4	3	3	3
C	3	1	2	2	2
Golang	0	0	0	0	0
Javascript	2	2	3	4	5
Spring	0	3	0	0	0
Flask	4	0	0	0	0
Django	0	1	0	1	0
Pandas	3	3	5	5	3
Scikit-learn	3	1	5	5	1
Numpy	4	4	5	5	3
Matplotlib	4	3	5	5	3
Tensorflow	4	1	3	3	0
Keras	3	2	3	3	0
Pytorch	4	2	4	3	0
React	0	3	0	3	5
Vue	0	3	0	0	1
Html	4	5	4	4	5
Css	2	5	4	4	5
Figma	5	0	0	0	5
Adobe XD	2	0	0	3	2
Sketch	0	0	0	0	0

Use MedCAT

Based one [2023-04-28 Meeting notes - Client](#), team is going to implement MedCAT to map raw text to SNOMED CT as one of the approaches.

Version Control

Team member should follow the following graph to make commit and create branches.



Others

Title	Creator	Modified
Demonstration	Hanyi Gao	about 4 hours ago
Mapping Tools Survey	KUNXI SUN	yesterday at 11:26 AM
Code Review Checklist	Yue Fei	yesterday at 11:26 AM
Server Configuration	Ricardo Luo	yesterday at 11:23 AM
Tool Uses	KUNXI SUN	28 Apr, 2023

Server Configuration

Dev Cloud Server

Public IP	101.43.110.249
Email	895023420@qq.com
Password	*****
Instance ID	Ihins-6y84pbke
Instance name	Ubuntu
Area	Shanghai
secret key	lhkp-j8q3flr4

Database

Address	http://101.43.110.249:27017/
admin username	boxjelly
admin password	di_boxjelly90082
Connection URL	mongodb://boxjelly:di_boxjelly90082@101.43.110.249:27017/

Web

Address	http://101.43.110.249/
---------	---

Demonstration

The project demo is available link is <http://101.43.110.249/>

Sprint 2 video demo:

Tool Uses

1 Integrate Github on Slack

Integrate GitHub on Slack helps the team track the commit on important branches: develop and main branch

Example 1: Main branch notification on Slack

The screenshot shows the Slack interface on the left and a GitHub channel view on the right, connected by a green line.

Slack Sidebar:

- DI-BoxJelly
- Upgrade Plan
- Later
- Mentions & reactions
- Drafts & sent (1)
- Slack Connect
- More
- Starred
- research-team
- Channels
 - # general
 - main-discussion
 - noti-confluence-all
 - noti-github-develop
 - noti-github-general
 - noti-github-main** (highlighted with a blue box)
 - noti-miro
 - noti-trello-all
 - zoom-meeting
- Add channels
- Direct messages
 - KUNXI SUN you
 - Chenyang Dong
- noti-github-main

GitHub Channel View:

noti-github-main (locked channel, 5 members)

- + Add a bookmark
- commits::dev/sprint1
- Monday, March 20th
- KUNXI SUN 12:41 PM: renamed the channel from "github-main" to "noti-github-main"
- Wednesday, March 22nd
- GitHub APP** 10:11 PM: 4 new commits pushed to dev/sprint1 by KunxiSun
 - b96dc116 - test commit
 - 86c6ca78 - Update README.md
 - a64be105 - test slack noti
 - 8cf5a758 - Merge branch 'dev/sprint1' of https://github.com/COMP90082-2023-SM1/DI-Boxjelly into dev/sprint1
- Thursday, March 23rd
- GitHub APP** 12:43 AM: 1 new commit pushed to dev/sprint1 by KunxiSun
 - a9d3c137 - update the workflow-branching naming

Message input field: Message @noti-github-main

Example 2: Develop branch notification on Slack

The screenshot shows a messaging application interface. On the left is a sidebar with a dark purple header containing the user's name "DI-BoxJelly" and a profile icon. Below the header is a button labeled "Upgrade Plan". The sidebar lists several channels and direct messages:

- Later
- Mentions & reactions
- Drafts & sent (with 1 new item)
- Slack Connect
- More
- Starred
- research-team
- Channels
- # general
- main-discussion
- noti-confluence-all
- noti-github-develop (highlighted with a red box)
- noti-github-general
- noti-github-main
- noti-miro
- noti-trello-all
- zoom-meeting
- Add channels
- Direct messages
- KUNXI SUN you
- Chenyang Dong

The main panel has a light gray background. At the top, it says "noti-github-develop". Below that is a button "+ Add a bookmark". The main content area shows GitHub notifications:

- 0971760a** - Upd Thursday, April 20th CODE REVIEW as a new assessment criteria
COMP90082-2023-SM1/comp90082-2023-sm1-resources
- 1 new commit pushed to **main** by **agogear**
- 9f6a8cf5** - New updates on code review criteria
COMP90082-2023-SM1/comp90082-2023-sm1-resources

A date indicator "Sunday, April 23rd" is shown in a rounded white box. Below it, another GitHub notification is listed:

- GitHub APP** 2:42 PM
1 new commit pushed to **main** by **agogear**
- 88021066** - Updating checklists - simplifying items to students
COMP90082-2023-SM1/comp90082-2023-sm1-resources

A date indicator "Monday, April 24th" is shown in a rounded white box. Below it, another GitHub notification is listed:

- GitHub APP** 10:44 AM
1 new commit pushed to **main** by **agogear**
- 98dade15** - Improved checklist to students (consistent with current dev workflow - NO additional work for them)
COMP90082-2023-SM1/comp90082-2023-sm1-resources

At the bottom of the main panel, there is a message input field with placeholder text "Message ⌘ noti-github-develop" and a toolbar with various icons for text styling.

Example 3: General information on Slack

The screenshot shows the DI-BoxJelly Slack interface. On the left, the sidebar lists various channels and direct messages. The 'noti-github-general' channel is highlighted with a blue box. The main pane displays the 'noti-github-general' channel feed. At the top, there's a header with a lock icon, the channel name, and a user count of 5. Below the header, there's a button to 'Add a bookmark'. The feed shows a message from 'COMP90082-2023-SM1/DI-Boxjelly' dated Tuesday, April 4th, containing a bulleted list of steps: 'Nginx->Backend', 'di-gateway->di-auth', and 'di-auth->mongodb'. It also lists '2. Login(Page and API)' and '3. Register(Only API)'. A 'Show more' link is present. Below this, another message from 'COMP90082-2023-SM1/DI-Boxjelly' dated April 4th is shown, with a 'Comment' button and a timestamp of '23 days ago'. A reply from 'GitHub APP' at 7:20 PM on Wednesday, April 5th, is also visible, stating 'replied to a thread' and 'Pull request merged by doncd-p'. This message includes a link to '#9 Release/v1.1.0'. The bottom of the screen shows the Slack message input field with placeholder text 'Message @noti-github-general' and various message formatting icons.

2 Integrate Trello on Slack

Integrate Trello on Slack helps team track the status of user story cards.

Example 1: Trello card notifications on Slack

DI-BoxJelly ▾

Upgrade Plan

Later

Mentions & reactions

Drafts & sent 1

Slack Connect

More

Starred

research-team

Channels

general

main-discussion

noti-confluence-all

noti-github-develop

noti-github-general

noti-github-main

noti-miro

noti-trello-all

zoom-meeting

+ Add channels

noti-trello-all

+ Add a bookmark

Moved Sprint 1 review Today → Sprint2 confluence to sprint2 confluence review.

Trello APP 7:14 PM
Yulai Luo Moved Code review 2 -p2p-Frontend from SPrint2 confluence to springt 2 confluence review.

Trello APP 7:36 PM
Yue Fei Moved Code review 3-p2p-Backend from SPrint2 confluence to springt 2 confluence review.

Trello APP 7:54 PM
Chenyang Dong Archived the card Code review - p2p.

Trello APP 9:33 PM
Chenyang Dong Renamed the card "Sprint Goal:" to Sprint Goal: Enable efficient and accurate mapping of short text into the terms of the Universal Indication List (UIL) by developing a mapping system, allowing for account login and management, and providing category options for mapped items.

3 Integrate Confluence on Slack

FAIL

Reason: Permission from unimelb Confluence administration required.

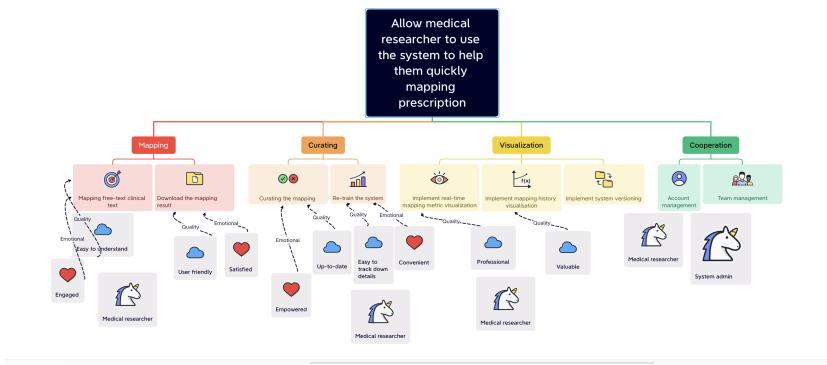
4 Integrate Zoom on Slack

FAIL

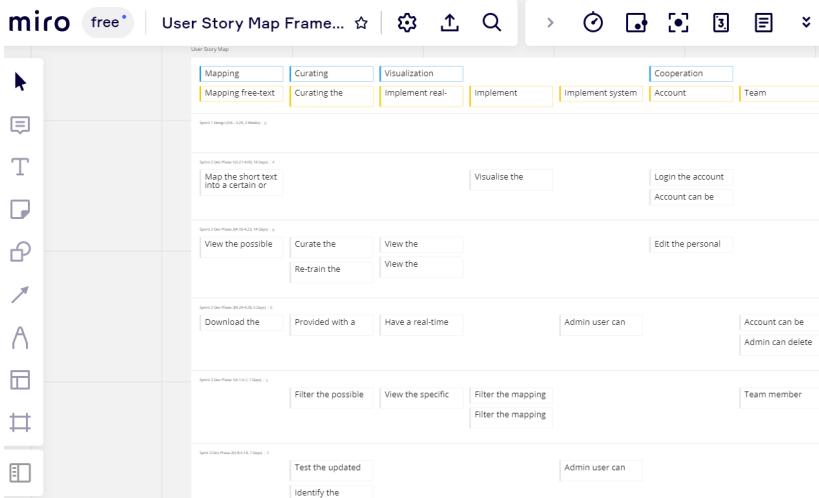
Reason: Permission from unimelb Zoom administration required.

5 Xmind

Xmind is a very powerful tool which helps team to draw the [motivational model](#).

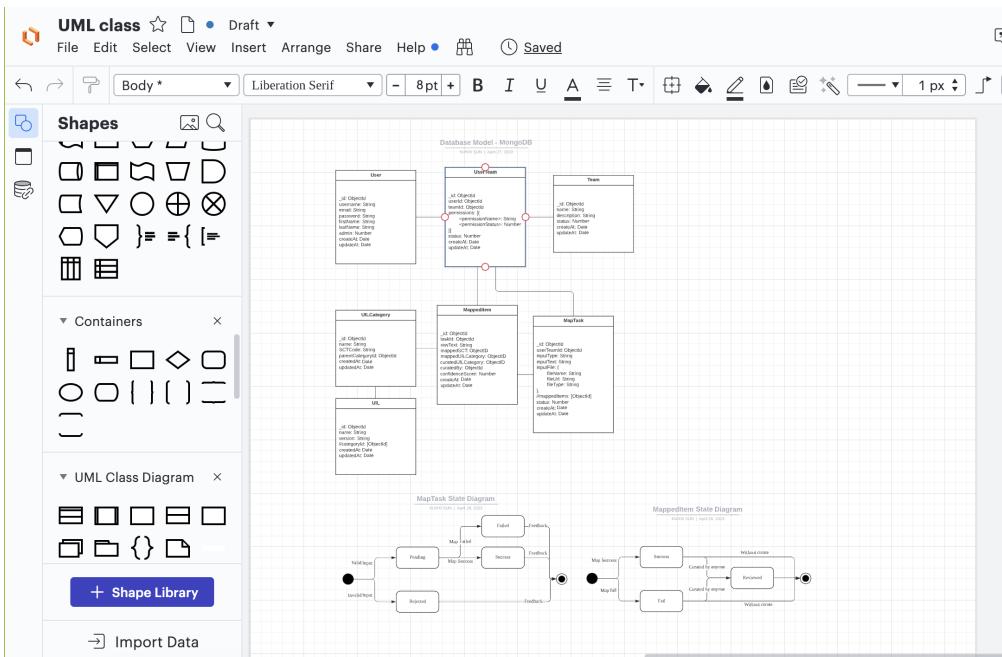


6 Miro



7 Lucidchart

Lucidchart is a very powerful tool to draw diagrams. It has been used to produce the [4+1 architecture diagrams](#).



8 Postman

Ontoserver provides their APIs through Postman, so team members use postman very often to test the Ontoserver API, and test our own backend APIs.

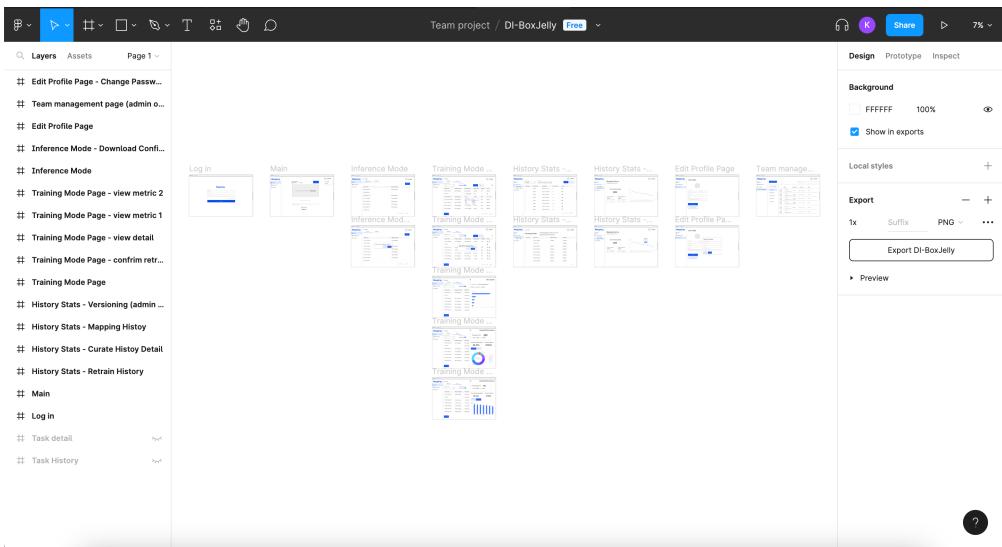
The screenshot shows the Postman application interface. At the top, there are navigation tabs: ENVIRONMENT, R4, LAYOUT, Single Column, LANGUAGE, cURL - cURL, and a Public button. Below the tabs, there's a sidebar titled "ONTOSERVER" containing a tree view of API endpoints:

- Introduction
- CodeSystem
- Lookup
- Subsumes
- Closure
- ValueSet
- Expand
- Validate code
- ConceptMap
- Translate
- Batch
- Resource validation
- AuditEvent
- Syndication

The main content area is titled "Ontoserver" and contains the "CodeSystem" section. It includes a "GET" request for "Search all CodeSystems, return their names and urls". The request URL is `https://r4.ontoserver.csiro.au/fhir/CodeSystem?_elements=name,_url&_count=10`. Below the request, there's a note: "Retrieves the name and url elements for all CodeSystem resources in the server, limiting the number of results in the first page to 10." and a link to "See Search".

9 Figma

Figma is a collaborative ui design tools which has been used to produce the digital prototypes.



Code Review Checklist

The following checklist is used for our analysis:

1. Documentation Defects:
 - a. Naming: Assess the quality of software element names.
 - b. Comment: Analyze the quality and accuracy of code comments.
2. Visual Representation Defects:
 - a. Bracket Usage: Identify any issues with incorrect or missing brackets.
 - b. Indentation: Check for incorrect indentation that affects readability.
 - c. Long Line: Point out any long code statements that hinder readability.
3. Structure Defects:
 - a. Dead Code: Find any code statements that serve no meaningful purpose.
 - b. Duplication: Identify duplicate code statements that can be refactored.
4. New Functionality:
 - a. Use Standard Method: Determine if a standardized approach should be used for single-purpose code statements.
5. Resource Defects:
 - a. Variable Initialization: Identify variables that are uninitialized or incorrectly initialized.
 - b. Memory Management: Evaluate the program's memory usage and management.
6. Check Defects:
 - a. Check User Input: Analyze the validity of user input and its handling.
7. Interface Defects:
 - a. Parameter: Detect incorrect or missing parameters when calling functions or libraries.
8. Logic Defects:
 - a. Compute: Identify incorrect logic during system execution.
 - b. Performance: Evaluate the efficiency of the algorithm used.

Mapping Tools Survey

	Ontoserver	3M HDD	Apelon DTS	Clinical Architecture Symedical	HealthTerm
Support SNOMED CT	Yes	Yes	Yes	Yes	Yes
Mapping	Yes	Yes	Yes	Yes	Yes
Automapping	Yes	No	No	No	Yes
Search Engine	Yes	Yes	Yes	Yes	Yes
RESTful APIs	Yes	Yes	Yes	Yes	Yes
Custom Mappings	Yes	No	No	Yes	Yes
Technical Support	Yes	No	Yes	-	-
Company Location	AU	US	US	US	US
Pricing	Free License held	Starts at USD \$27,500 per year for development use	Basic: USD \$27,000 per year With software support: additional USD \$15,000 per year	Waiting for response	Waiting for response