

# COEN6311 Deliverable 2: System Model and Design GroupSuper

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## 1 Introduction

This delivery includes a description of our process of following the Agile development process, defining the RoadMap using the Jira management tool, performing requirements segmentation and relating user stories. Also define 3 Sprints for development. It also includes a documentation section, defining the use case, system architecture, modelling and designing ( Class Diagram, Activity Diagram, Sequence Diagram, Statement Diagram). Also included is our Web UI design section. At the end of the article, after revisiting the UI design, we selected a new task as required and repeated the requirement section, having planned new milestones.

## 2 Agile development process

**Team Setup:** As a three members team, we define the roles of [Product Owner] *Jun Huang* and [Scrum Master] will be a shift between *Zerui Wang* and *Ding Li*. We use JIRA as our management tool, the whole roadmap for the project is shown in Figure 1.

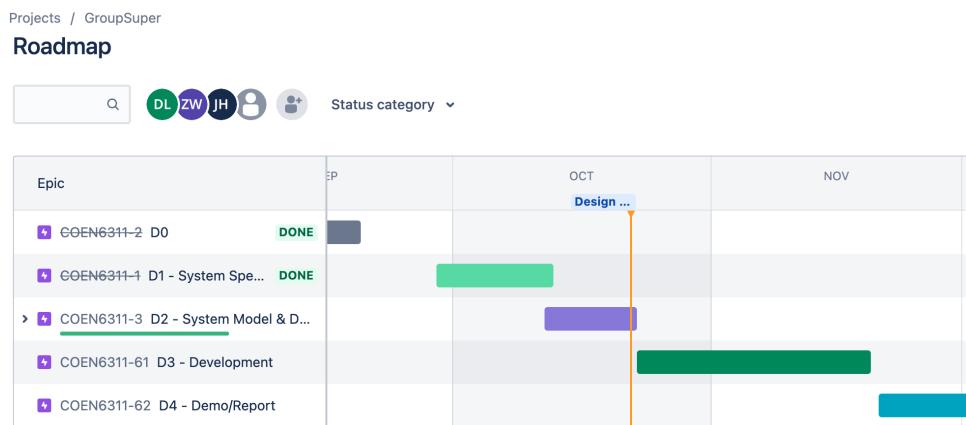


Figure 1: Roadmap - JIRA Management Tool

**Associate user stories to sub-requirements:** Previous deliverable we define three user stories and 7 sub-requirements. They are associated to each other by JIRA linked issues feature. Figure 2 gives an example that we connect User Story 2 Lucy to the ICDE Record Capture and Access module in sub-requirement 4 and Authorized API Module in sub-requirement 5. The full sub-requirement assignments are listed in our Jira panel:

**Define tasks and priority under each requirement:** Tasks are deployed under each sub-requirement to be finished. We also separate different Dev Sprints to accomplish the whole project. Dev Sprint 1 includes Sub-requirements 1 & 2 that involve login, log out and information management

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**Lucy wants to see her paper browsing history, so she can retrieve her previous work.**

Attach Add a child issue Link issue Track time with Clockwork Add Checklist

Description

Add a description...

Linked issues

relates to

<input checked="" type="checkbox"/> COEN6311-5 Scenario 2: Researcher - Lucy	<input checked="" type="checkbox"/> DL TO DO
<input checked="" type="checkbox"/> COEN6311-28 SRS 4.1 ICDE Record Capture Module	<input checked="" type="checkbox"/> DL TO DO
<input checked="" type="checkbox"/> COEN6311-49 SRS4.2 ICDE Record Access Module	<input checked="" type="checkbox"/> DL TO DO
<input checked="" type="checkbox"/> COEN6311-17 SRS 5.1 Non-user-authorized API	<input checked="" type="checkbox"/> DL TO DO
<input checked="" type="checkbox"/> COEN6311-57 SRS 5.2 User-authorized API	<input checked="" type="checkbox"/> DL TO DO

Figure 2: An example of associating user stories to sub-req

system. Dev Sprint 2 includes sub-requirements 3 & 4 & 5 that contains ICDE process and the authorized API. Dev Sprint 3 includes sub-requirements 6 & 7 mainly for the team management service. Figure 3 gives an example that how we add tasks under the sub-requirements defined earlier. The UML diagrams modelling and designing tasks for the whole system are also considered as a Sprint.

▼ Dev Sprint - SRS1/2 Add dates (12 issues)

<input checked="" type="checkbox"/> COEN6311-71 Jack wants to register a user account, so he can log in to the system.
<input checked="" type="checkbox"/> COEN6311-72 Jack wants to log out from the system, so he would not leave my personal information on the system.
<input checked="" type="checkbox"/> COEN6311-7 SRS 1.1 User Infomation Module
<input checked="" type="checkbox"/> COEN6311-12 SRS 1.2 Login Module
<input checked="" type="checkbox"/> COEN6311-73 Jack wants to search papers with certain keywords, so he can browse the result for his assignment.
<input checked="" type="checkbox"/> COEN6311-11 SRS 3.1 Paper Search Module
<input checked="" type="checkbox"/> COEN6311-74 Jack wants to see the detail page of the paper that he clicks into, so he will know more about the paper.
<input checked="" type="checkbox"/> COEN6311-76 Jack wants to comment on the paper, so he can express his idea of it.
<input checked="" type="checkbox"/> COEN6311-75 Jack wants to download the paper, so he can read the pdf file of the paper.
<input checked="" type="checkbox"/> COEN6311-77 Jack wants to click the "dislike" button, so the other will know it.
<input checked="" type="checkbox"/> COEN6311-9 SRS 2.1 Paper Download Module
<input checked="" type="checkbox"/> COEN6311-23 SRS 2.2 Paper Operation Module

Figure 3: An example of defining tasks under each Sprint

### 3 Revising and Modelling.

This section includes the modelling and designing both overall level and user/system requirements level.

#### 3.1 Revise the context/external description

**Overall Use Cases:** The overall use case is shown as Figure 4.

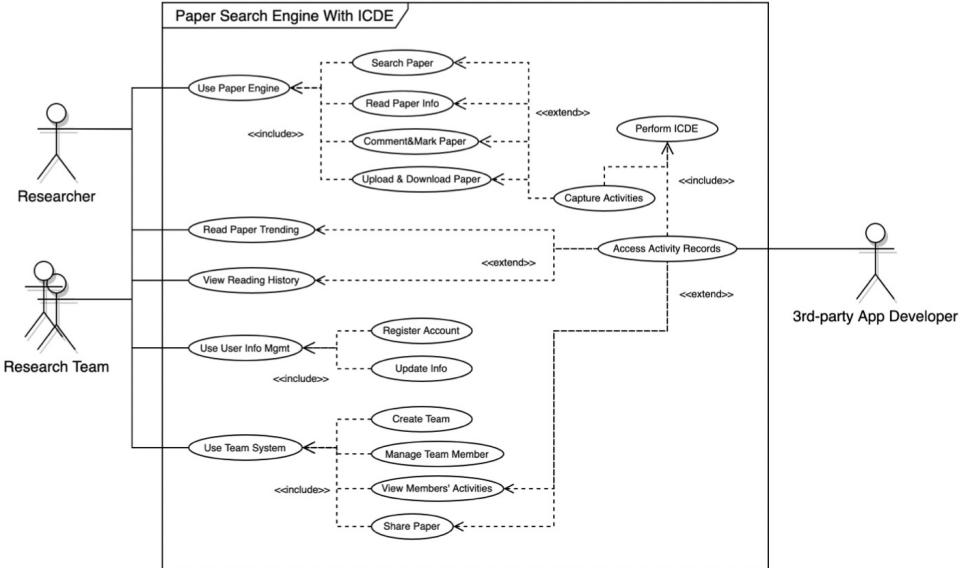


Figure 4: Overall Use Cases

**Use case Diagrams:** According to the various sub-requirements level, we specify the use cases as follows of user requirements and system requirements level, which are shown in different subgraphs of Fig. 5 and Fig. 6.

### System Architecture

The **context diagram** of the system is shown in: Fig. 7, which indicates that the system has no dependences on outer systems.

The **system architecture diagram** is shown in: Fig. 8.

The system will follow the MVC architecture since the client end of the system will be web browser. And obviously, it follows the layer pattern.

Notice that component with red box is designed for future development of this system itself. It might not be implemented within the scope of the class project but it will still have interfaces defined.

## 3.2 System modeling and design.

Use UML to describe system context environment, objects, and key processes.

### System Business Object

According to the latest system requirement specifications(SRS), the system will have the following business objects(BO) which serve the MVC.

Fig. 9 shows the very basic BOs of the system. **Record** will be the topmost general BO above any other BO. **Researcher** will represent the solid system user. **PaperMetadata** will represent paper informations.

Fig. 10 shows the BOs which represent the users' preference about certain paper. **PaperComment** will be the comment wrote by the user. **PaperLikeAndDislike** will represent the preference from the user.

Fig. 11 shows the BOs which represent the users' paper collection. **PaperCollectionCat** will be the collections which are created by the user. **PaperCollectionRecord** will represent the single paper that collected within certain collection category.

Fig. 12 shows the BOs which will gain the benefits from the ICDE. **UserOperationRecord** will be the records that are created by the system whenever the system user performs paper-relevant actions. **PaperClickTrending** will represent the trending of how many clicks on certain papers, this data will

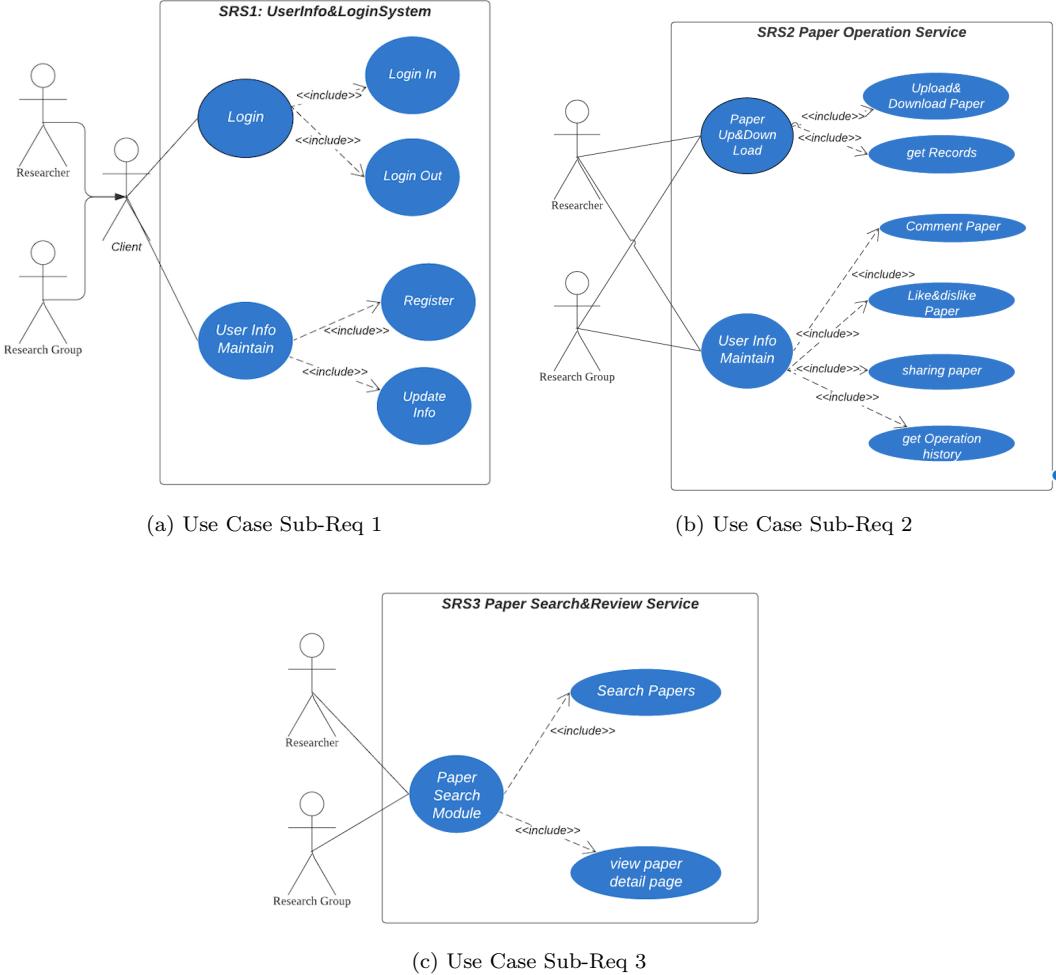


Figure 5: Use case Diagrams

generate by the system using the data recorded by ICDE. **SearchTermTrending** will represent the trending of the hottest search terms.

Fig. 13 shows the BOs which represent Team features of the system. **ResearchTeam** will represent a research team. **ResearchTeamAuthRecord** will represent the relationship between users and teams.

Fig. 14 shows the BOs which will serve the 3rd-party ICDE application. **ICDEThirdPartyApplication** will represent a registered 3rd-party ICDE application. **ICDEThirdPartyAppAuthRecord** will represent the relationship between ICDE applications and users.

Notice that those BOs are designed for future development of this system. It might not be implemented within the scope of the class project but it will still have classes or interfaces defined.

#### Representative Diagram for Key SRS

For SRS1.1.1-Register, it can be represent as activity diagram shown in Fig. 15.

For SRS1.1.2-Update User informations, it can be represent as activity diagram shown in Fig. 16.

For SRS1.2.1-Login, it can be represent as activity diagram shown in Fig. 17.

For SRS2.1.1-Download Paper, it can be represent as sequence diagram shown in Fig. 18.

For SRS 2.1.2, SRS 2.2.4, SRS 4.2, and SRS 5, they can be represent as activity diagram shown in Fig. 19.

For SRS 6.1.2-Team Invitation, it can be represent as activity diagram shown in Fig. 20. Also it indicates how ICDE functions. And its sequence diagram is shown in Fig. 21. And also its state diagram shown in Fig. 22

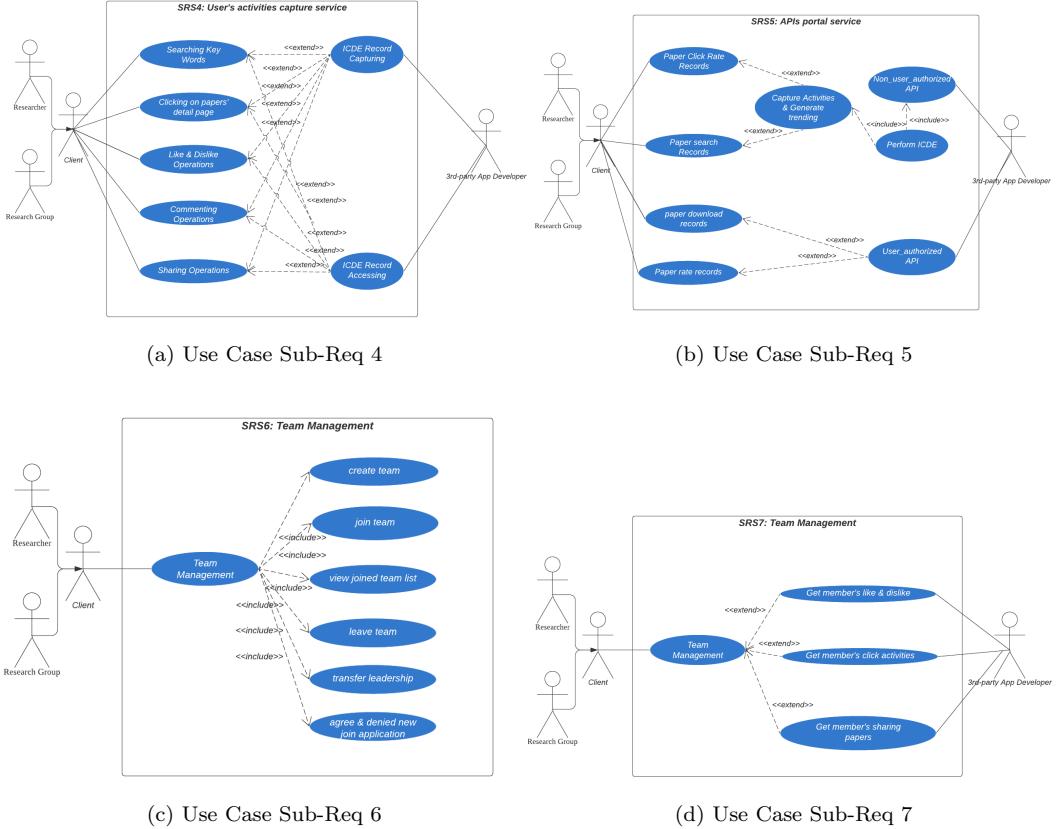


Figure 6: Use case Diagrams

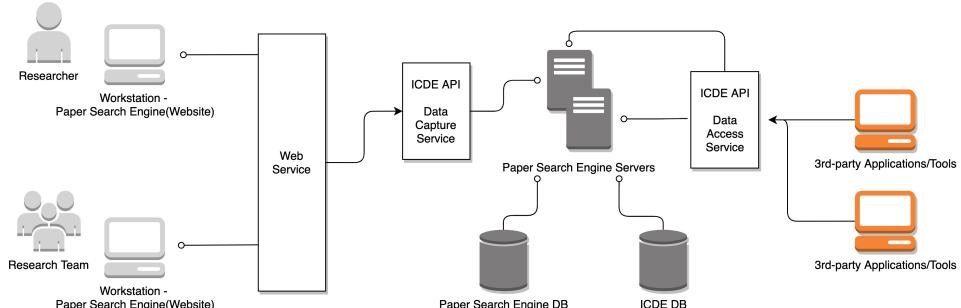


Figure 7: System Context

## 4 Web UI Design

**User interface (UI)** design is targeted to let readers use the ScholarHub software conveniently. The UI should be simple and functional to attract the reader's attention and interests. The UI should avoid being overly complex so that it can be used without learning. The UI of ScholarHub consists of 7 parts. They are explained as follow:

**Homepage:** there is a logo in the middle to indicate the service function and enhance recognition. A motto at the bottom to inspire academic pursuits. To continue using the service, the user must log in by clicking the “login” button at the top right corner.

**Sign in:** Email address and password are required to sign in. if the user does not have an account. It can jump to the registration page by simply clicking “I don't have an account”. Only Email addresses and Passwords are requested for registration. Additionally, users can log in by connecting with Facebook,

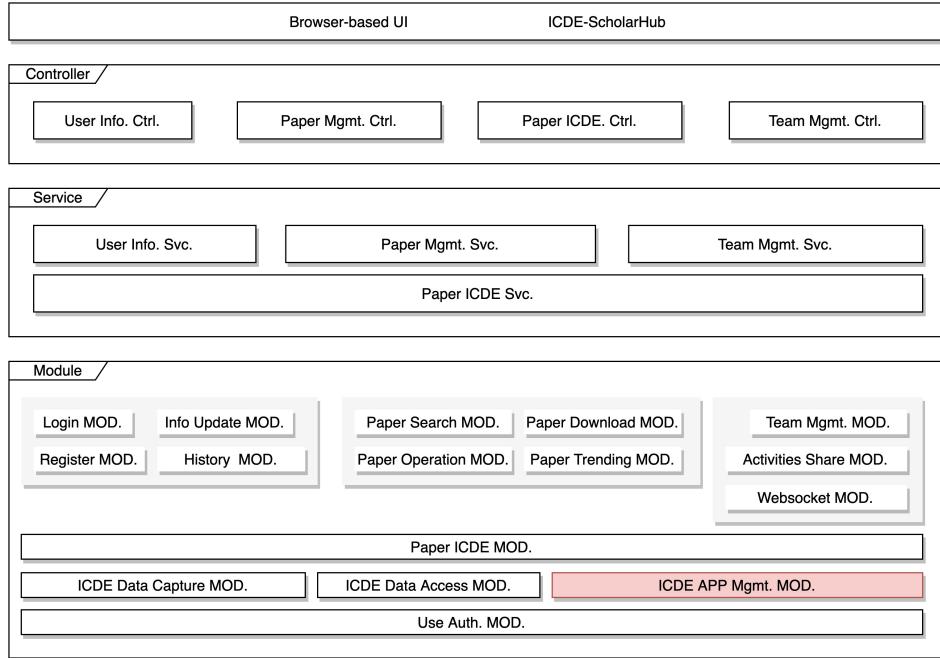


Figure 8: System Architecture

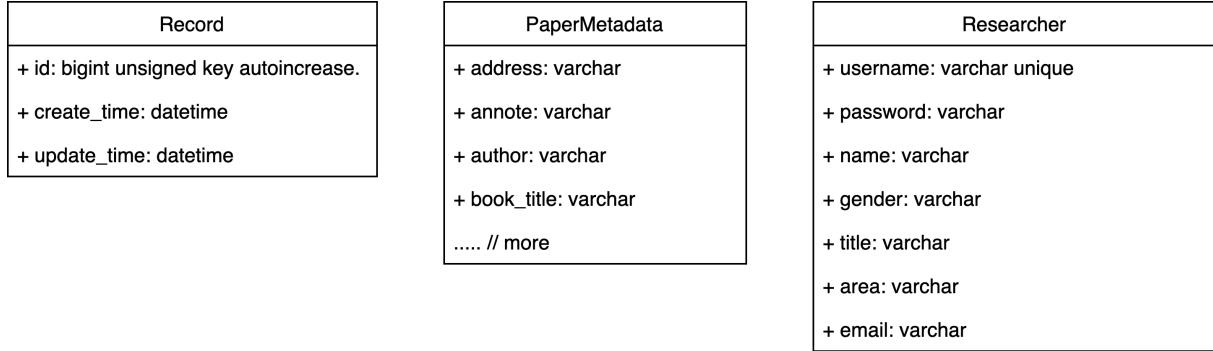


Figure 9: Business Objects Part1: Record, Researcher, PaperMetadata

Google and Apple.

**Menu page:** As soon as the user logged in, the web will show the Menu page initially. On the top left is the logo of ScholarHub. Following with four card buttons on the top, which are Menu, Team, My Library and My Profile. These are four main functional pages. On the top middle, there is a search bar, users can search paper titles and team members' names to directly check the information. On the top right-hand side, the button shows the user's name to remind it has been login with the current account. The log-out function is inside the name button. The Menu page indicates three main zones. On the left is the team zone, it shows the list of the team that the user joined. In the middle, there is a brief reading list of history. That is for reminding the user to review the recent paper. On the right side is the recent activities zone, users can get go through other team members' activities.

**My Library:** this is the main functional page for users to collect and organize their reading list. The list contains the information of Paper title, Authors, Author's affiliation, Research field tag, Published year, Priority defined by the user, Read checkbox, Like checkbox, Link or DOI of the paper. Finally, the number of likes about the current paper in the system can be shown to the customer. Users can also open a text box and write a note by clicking the paper title. Users can click and check the read and like check-box to remind themselves. Also, the activity will be recorded and collected. This information

<b>PaperComment</b> + paper_id: same as Record.id + commenter_id: same as Record.id + comment: varchar	<b>PaperLikeAndDislike</b> + paper_id: same as Record.id + researcher_id: same as Record.id + like: bool
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Figure 10: Business Objects Part2: PaperComment, PaperLikeAndDislike

<b>PaperCollectionCat</b> + name: varchar + researcher_id: same as Record.id	<b>PaperCollectionRecord</b> + collection_id: same as Record.id + paper_id: same as Record.id
--	---

Figure 11: Business Objects Part3: PaperCollectionCat, PaperCollectionRecord

will be available to the teammates and supervisor. The number of likes by all users will be counted and anonymously shown to others.

**My Profile:** This page allows users to edit and show their profile cards. It contains the following information: Roles in the group, Address, Email, Mobile number, Personal web address, Resume or other attached document file and tags for showing research interest. Personal headshot photos can be uploaded and shown on the top for others' recognition.

**Team:** The team function is the core of the ICDE system and is to share literature information with others. On the left side, the joined team is listed. If the user wants to join another new team or create a team, it would be just a simple click on the plus sign. Then, the pop-up window will request a team ID and password. The funder of a team can edit passwords. The information of team members will be listed in the table. Including the information about Name, Role, Stage position and so on. It is automatically extracted from their individual profile. Therefore, users can easily get the teammate's contact information. By clicking the "activity", the recently recorded activities will show by timeline. Also, the paper that the teammates liked will be listed on the right side for user to read.

## 5 Repeat Req2 and Further evaluate the process and milestones

After attending Week 7 Lecture our team found that we shall adding the non-functional requirement for our system that constraints on the services offered by the system. We consider timing constraints that limit the whole service hours for users including research individual and research group. During 0:00 to 6:00 on every Sunday the system will unavailable for researchers(either the individual or the group).

The whole process and milestones are newly evaluate and listed the milestone in Jira as Figure 1. Currently we have finished Sprint1 and the sub-tasks are listed on Jira as Figure 30. The schedule for team is that 8 hours per member per week, and the budget is keeping stable.

UserOperationRecord	PaperClickTrending	SearchTermTrending
+ type: varchar + researcher_id: same as Record.id + paper_id: same as Record.id + input_text: varchar	+ trending_date: datetime + p_id_list: varchar	+ trending_date: datetime + term_list: varchar

Figure 12: Business Objects Part4: UserOperationRecord, PaperClickTrending, SearchTermTrending

ResearchTeam	ResearchTeamAuthRecord
+ team_name: varchar + area: varchar + leader_id: same as Record.id	+ researcher_id: same as Record.id + team_id: same as Record.id + state: varchar + expire_date: datetime + role_tag: varchar

Figure 13: Business Objects Part5: ResearchTeam, ResearchTeamAuthRecord

ICDEThirdPartyAppAuthRecord	ICDEThirdPartyApplication
+ researcher_id: same as Record.id + app_id: same as Record.id + auth_scope_json: varchar + expire_date: datetime	+ name: varchar + owner_email: varchar

Figure 14: Business Objects Part5: ICDEThirdPartyApplication, ICDEThirdPartyAppAuthRecord

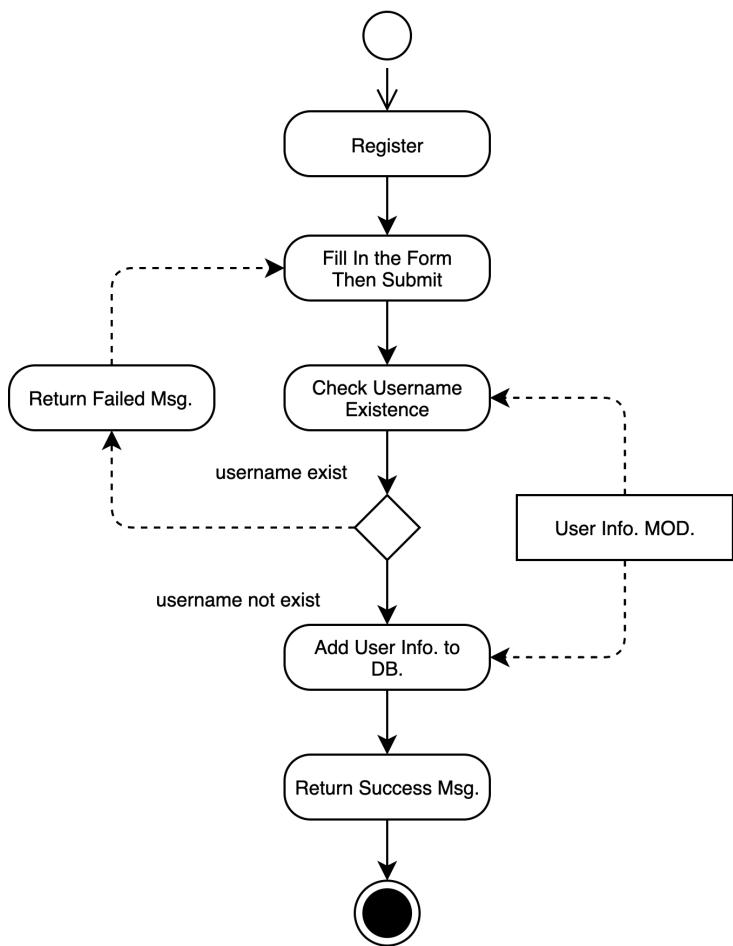


Figure 15: Activity Diagram for SRS1.1.1

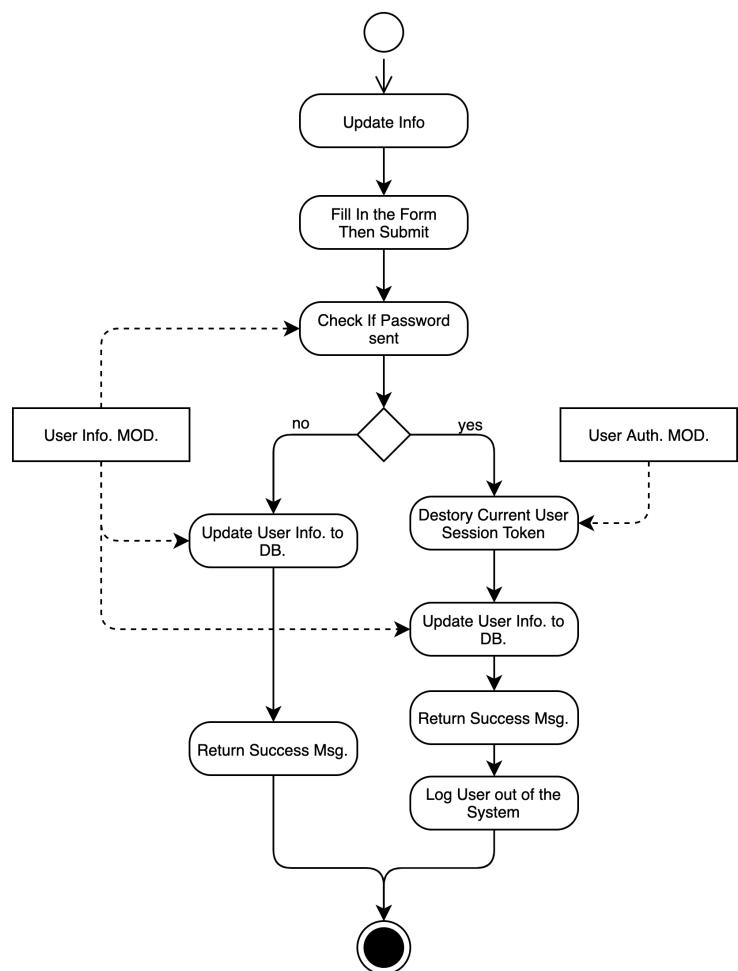


Figure 16: Activity Diagram for SRS1.1.2

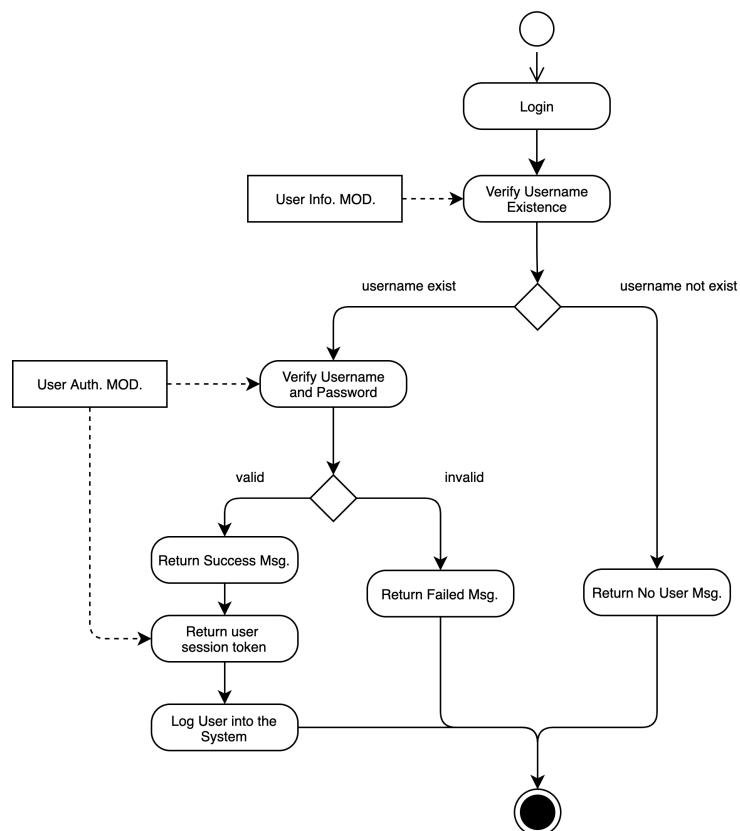


Figure 17: Activity Diagram for SRS1.2.1

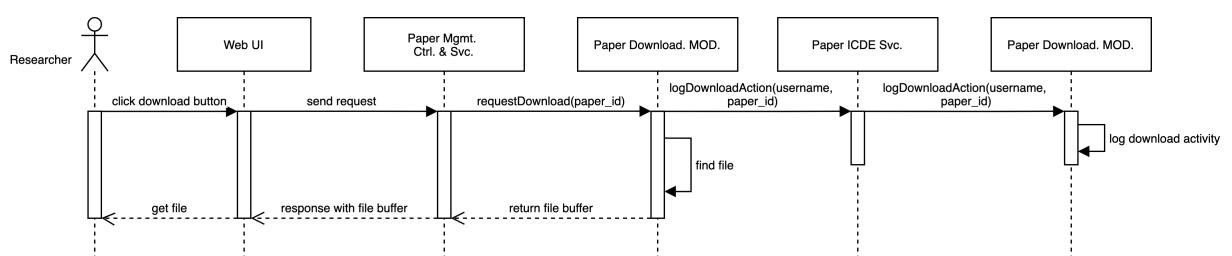


Figure 18: Sequence Diagram for SRS2.1.1

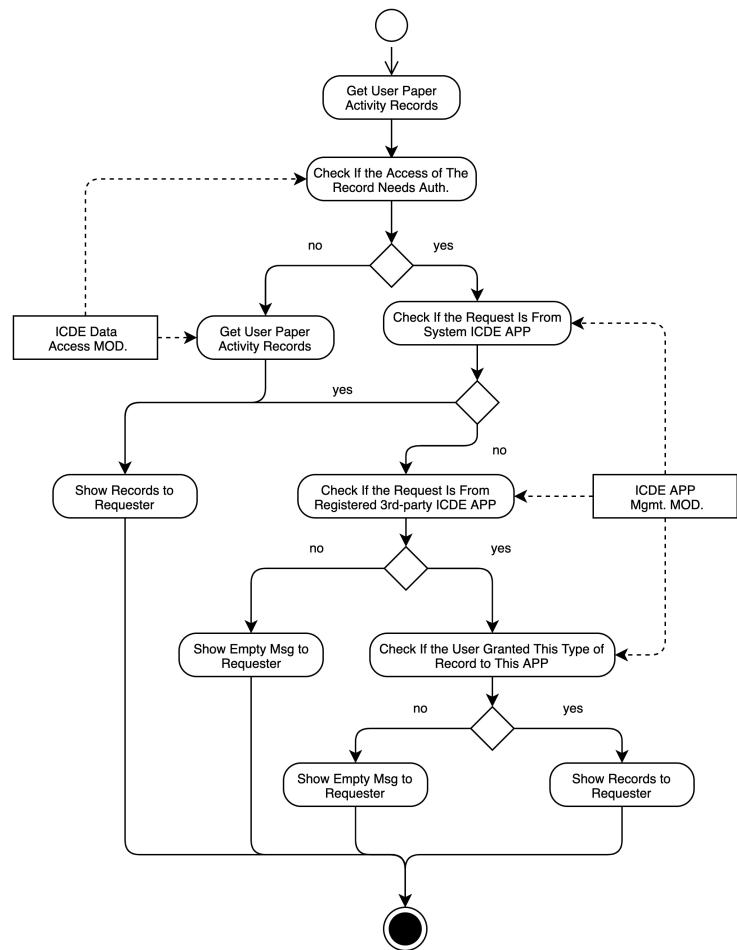


Figure 19: Activity Diagram for SRS 2.1.2, SRS 2.2.4, SRS 4.2, and SRS 5

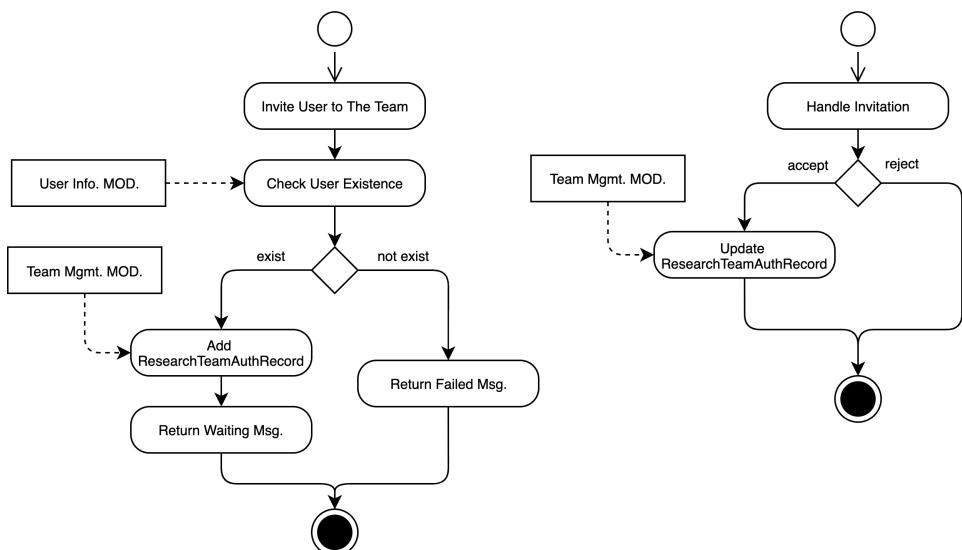


Figure 20: Activity Diagram for SRS 6.1.2

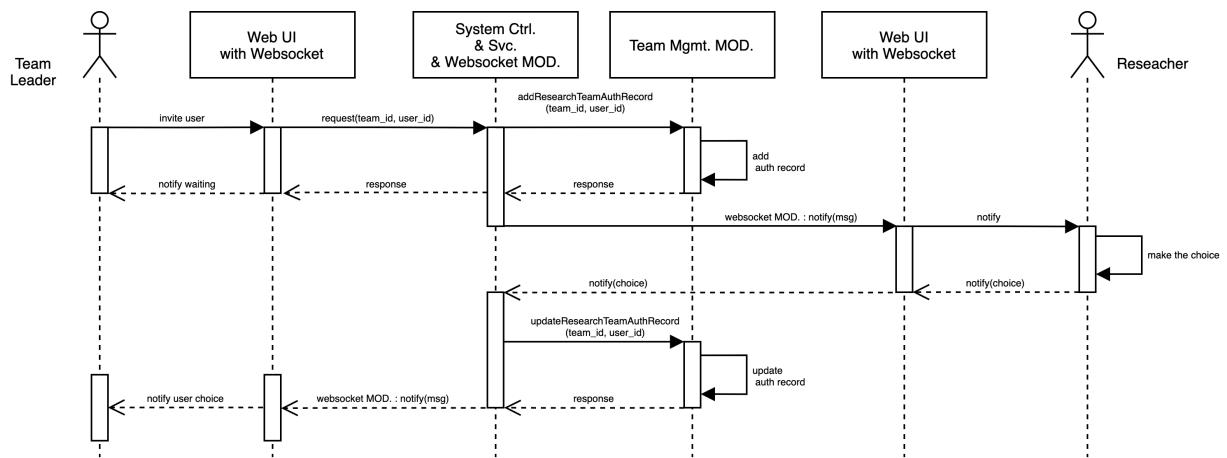


Figure 21: Sequence Diagram for SRS 6.1.2

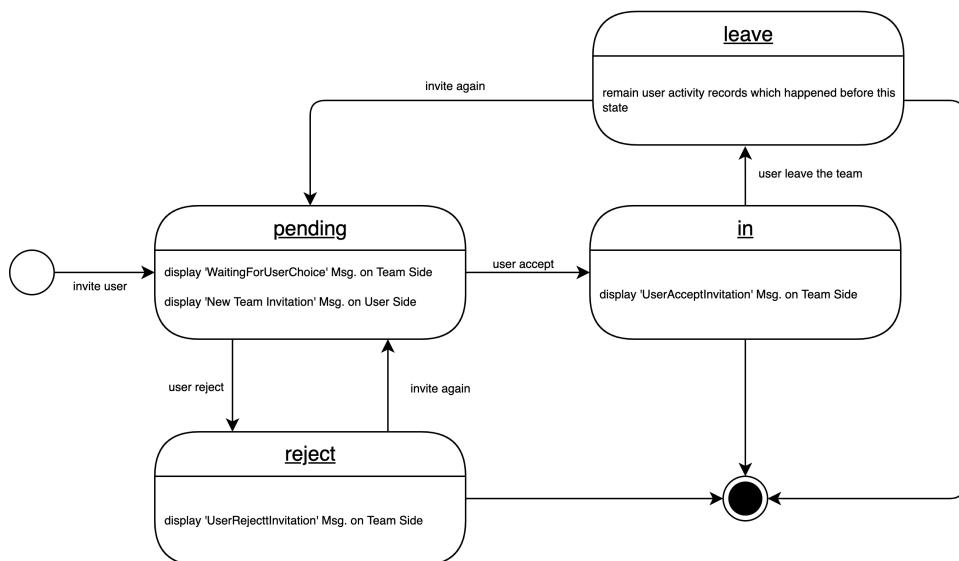


Figure 22: State Diagram for SRS 6.1.2



Figure 23: Home Page UI

Figure 24: Sign in UI

<b>My Team</b> <div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 2px;"></div> <div style="border: 1px solid #0070C0; background-color: #0070C0; color: white; padding: 2px 5px; margin-bottom: 2px;"></div> <div style="border: 1px solid #6A994E; background-color: #6A994E; color: white; padding: 2px 5px; margin-bottom: 2px;"></div> <div style="border: 1px solid #F0A000; background-color: #F0A000; color: white; padding: 2px 5px; margin-bottom: 2px;"></div> <div style="border: 1px solid #0070C0; background-color: #0070C0; color: white; padding: 2px 5px; margin-bottom: 2px;"></div> <div style="border: 1px solid #6A994E; background-color: #6A994E; color: white; padding: 2px 5px; margin-bottom: 2px;"></div> <div style="border: 1px solid #F0A000; background-color: #F0A000; color: white; padding: 2px 5px; margin-bottom: 2px;"></div> <div style="border: 1px solid #0070C0; background-color: #0070C0; color: white; padding: 2px 5px; margin-bottom: 2px;"></div> <div style="border: 1px solid #6A994E; 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**Firstname Lastname**

Properties	Group	New	Filter	Sort	Search	...	New
Role	Student						
Address	7141 Rue Sherbrooke O, Montréal, QC H4B 1R6						
Email	XXXXXX@mail.concordia.ca						
Mobile	438-941-xxxx						
LinkedIn	<a href="http://www.linkedin.com/">www.linkedin.com/</a>						
Resume	<a href="#">Resume.pdf</a>						
Research field	NLP CNN						
+ Add a property							

Figure 27: My Profile UI

**Table View** Activity

Name	Role	Stage	Email	Attachments	Website	Skills
Michael Kim	Engineering - Front End	Lead	michaelkim@company.com		<a href="https://www.linkedin.com/in/m">https://www.linkedin.com/in/m</a>	Front End
Andy Hertzfeld	Proffeser	Lead	hertzfeld@mail.concordia.ca	resume.pdf	<a href="https://www.dribbble.com/mic">https://www.dribbble.com/mic</a>	ML SE
Tim Bakshi	Support Lead	Post-Doc	tim@mail.concordia.ca		<a href="https://www.timbakshi.com">https://www.timbakshi.com</a>	Writing
Kim Sanders	Engineering - Front End	Post-Doc	kim.sanders@notion.so		<a href="https://www.linkedin.com/in/ki">https://www.linkedin.com/in/ki</a>	Back End
Carrie Sandoval	Engineering - Ops	Student	carriesandoval@notion.so		<a href="https://www.github.com/carrie">https://www.github.com/carrie</a>	Back End Platform

Figure 28: Team List UI

The screenshot shows a user interface for managing team activity. On the left, there's a sidebar with buttons for 'Team1' (blue), 'Team2' (green), 'NLP group' (orange), 'DL team' (blue, currently selected), and a '+' button. The main area has a 'Return' link and a 'Team timeline' section. The timeline lists activities:

- Kai Wang added "Remote Sensing Image Scene Classification Meets Deep Learning: Challenges, Methods, Benchmarks, and Opportunities" to library
- Andy Hertzfeld added "Machine learning and the physical sciences" to library
- Justin Trudeau leave DL team
- Justin Trudeau joined DL team as Visitor
- Kai Wang joined DL team as Student
- Andy Hertzfeld added "Deep Learning applications for COVID-19" to library
- Andy Hertzfeld created DL team as Professor
- ...

To the right, under 'Team likes', there's a list of items liked by users:

- Kai Wang likes "Remote Sensing Image Scene Classification Meets Deep Learning: Challenges, Methods, Benchmarks, and Opportunities"
- Kim Sanders likes "Continuous prediction of manufacturing performance throughout the production lifecycle"
- Andy Hertzfeld likes "Deep Learning applications for COVID-19"
- ...

Figure 29: Team Activity UI

The screenshot shows a Jira Kanban board titled 'Design Sprint - 1'. At the top, there are links for 'Projects / GroupSuper' and the board title. Below are filter options: a search bar, user icons for 'DL', 'JH', 'ZW', and a 'Epic' dropdown.

The board has three columns: 'TO DO', 'IN PROGRESS', and 'DONE 5 ISSUES'.

**TO DO:** This column is currently empty.

**IN PROGRESS:** This column is currently empty.

**DONE 5 ISSUES:**

- System Object Design**  
D2 - SYSTEM MODEL & DESIGN  
② 21 OCT  
 COEN6311-66 ✓ JH
- System Level Architecture**  
D2 - SYSTEM MODEL & DESIGN  
② 21 OCT  
 COEN6311-68 ✓ JH
- SRS Modeling**  
D2 - SYSTEM MODEL & DESIGN  
② 22 OCT  
 COEN6311-67 ✓ JH
- SRS Level Use Cases**  
D2 - SYSTEM MODEL & DESIGN  
② 22 OCT  
 COEN6311-69 ✓ DL
- Web UI Design (Prototype)**  
D2 - SYSTEM MODEL & DESIGN  
② 22 OCT  
 COEN6311-64 ✓ EW

Figure 30: Sprint1 Sub-tasks on Jira