

LitPath AI: Smart Pathfinder for Theses and Dissertations

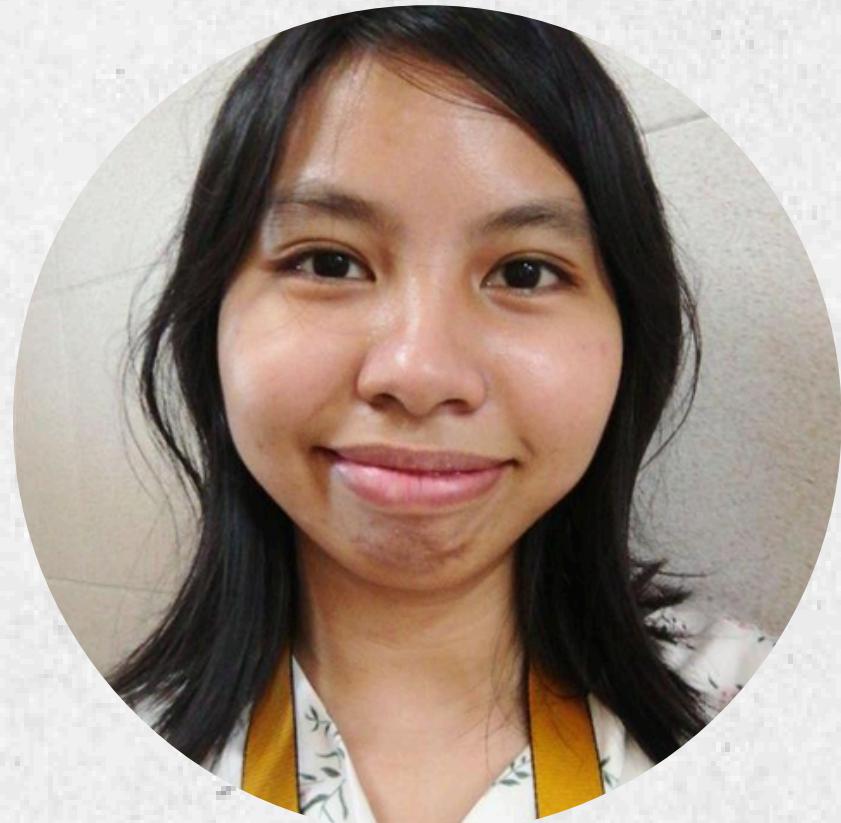
Group 7: HecTech

System Analysis and Detailed Design – MI231

MSYADD1

Mr. Jose Eugenio L. Quesada

OUR TEAM



Cempron, Charijoy



Concepcion, Marielle Kloie



Dulay, Jenine Elaine



Tomon, Tracie

Project Adviser:
Ms. Roselle Wednesday L. Gardon



Table of Contents

1 **Introduction**

2 **PM Docs Chapter 2**

3 **Design Thinking Output**

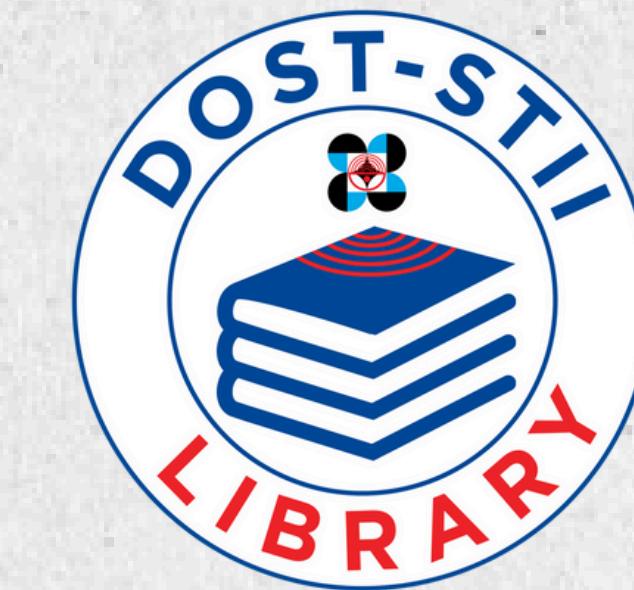
4 **Dataflow Diagrams**

5 **Openproject Output**

6 **Individual Contributions/ Closing**

Introduction

The DOST-STII Library is an important asset for academic and professional research in the Philippines, serving as the primary information arm of the Department of Science and Technology (DOST). Through the DOST Union Catalog, a component of the Science and Technology Information Network of the Philippines (ScINET-PHIL), the library aims to provide a centralized platform for efficient access to these resources across 21 DOST libraries and 15 regional offices, facilitating research and saving users significant time.



Dulay, Jenine Elaine



PM Docs Chapter 2: Charter

Purpose: Improve quality, efficiency, and relevance of research in the DOST-STII OPAC system, specifically for theses/dissertations.

Problems faced: Vague/irrelevant results, limited keyword matching, outdated UI, missing features like citation tool.

Solution (LitPath AI): Enhances DOST-STII OPAC with an AI-powered search engine, search filters, bookmarking feature and citation tool.

Client's Goal: Faster, more efficient research process and better access to theses/dissertations in the DOST-STII Library.

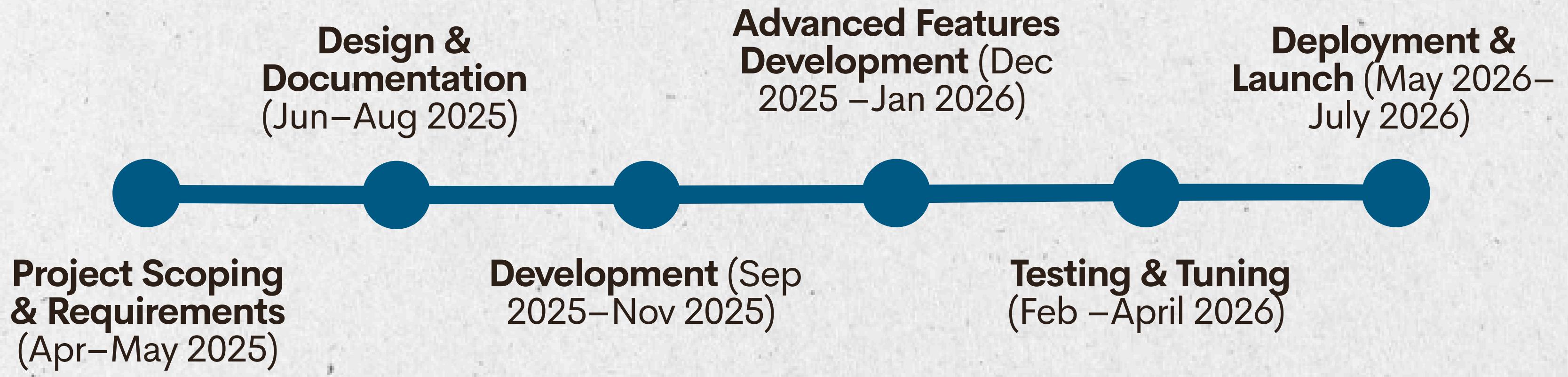
Dulay, Jenine Elaine





PM Docs Chapter 2: Charter

Project Milestone



Dulay, Jenine Elaine



PM Docs Chapter 2: Objectives

1

To make searching *faster and more precise*, the system will be equipped with advanced filters allowing users to narrow down results

2

To help users *discover more relevant studies*, the system will provide subject-based search results

3

To create a *better and faster user experience*, the interface will be redesigned to be more intuitive and responsive

4

To *make citing sources easier* for researchers, a built-in automated citation generator will be integrated

Concepcion, Marielle Kloie



PM Docs Chapter 2: Scope

In Scope

- 1** Use of DOST-STII Library's collection/database
- 2** The system will be integrated with the OPAC
- 3** Provide AI-powered search engine for accurate, relevant results.
- 4** Design a user-friendly interface for easy navigation.
- 5** Generated citations in multiple formats
- 6** Comments and feedback

Concepcion, Marielle Kloie



PM Docs Chapter 2: Stakeholder Analysis

Name	Department / Company	Position	Objectives, Requirements, Interests	Influence
Mr. Napoleon Juanillo, Jr., PhD	DOST-STII	Assistant Secretary for Technology Transfer, Communications and Commercialization and Officer-in-Charge, Office of the Director	Research commercialization and partnership development	High
Ms. Khasian Romulo	DOST-STII	Science Research Specialist II	Efficient research discovery and modernize search capabilities	High
Mr. Jonathan Abalon	DOST-STII	Science Research Specialist II	Improve user satisfaction and increase research utilization	High
Mr. Sean Sanchez	APC	Project Based Learning Coordinator	Educational innovation and partnership development	High
Ms. Roselle Gardon	APC	CS Program Director	Student academic success and skill development	High
Mr. Jose Quesada	APC	SOCIT Professor	Student academic success and learning outcomes	High
End Users	N/A	General Public	Faster research discovery and friendly search interface	High
HecTech Team	APC	Project Developers	Academic achievement and successful project delivery	High

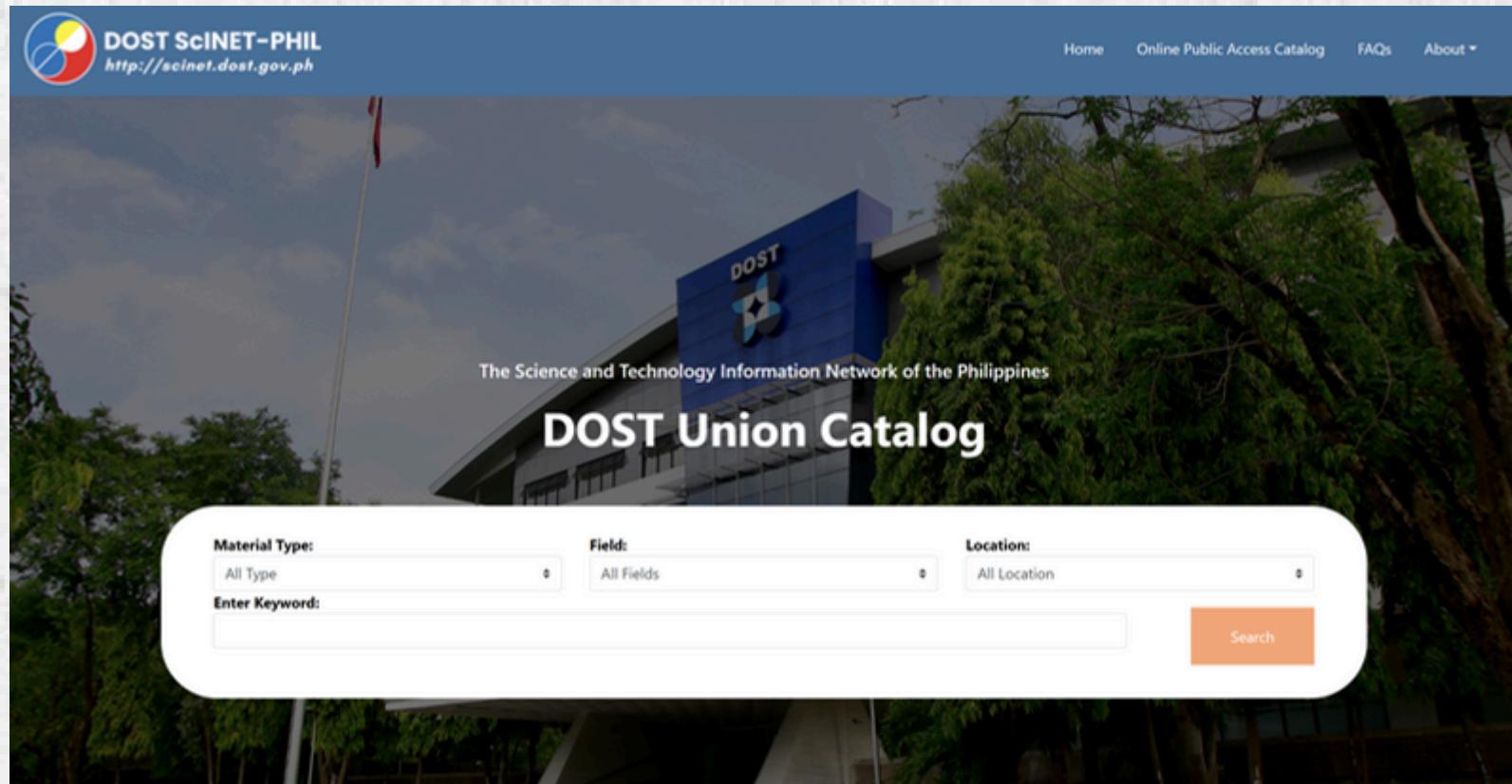
Cempron, Charijoy





Design Thinking Outputs

Stage 1 - Empatize



Root Problems

1. Technical Issues
2. Organizational Challenges
3. User Barriers

Key Insights

- Users expect fast, secure, modern systems
- Current OPAC fails usability standards
- Staff are aware but constrained by systemic barriers
- Students shift to alternative tools

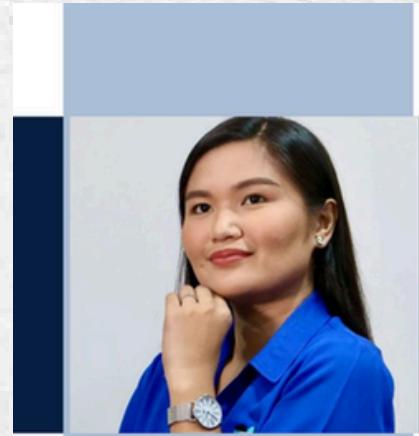
Dulay, Jenine Elaine





Design Thinking Outputs

Stage 1 - Empatize: Personas



KHASIAN ROMULO

Age: 30
Residence: Pasig
Education: College Graduate
Occupation: Unit Head of Digital Processing and Service Registry
Marital Status: Single

BIO
Khasian is currently the Unit Head for Digital Processing and Service Registry in a government agency. She is a highly motivated and tech-savvy leader committed to driving progress and innovation within a traditionally slow-moving sector. She is a natural problem-solver who "wears many hats," from managing projects like LitPath AI to publishing scientific articles to encourage the youth.

COMFORT WITH TECHNOLOGY
Comfort to technology 10/10
Internet 10/10
Software/apps 10/10
Social network 10/10

CRITERIA FOR SUCCESS
Positive client feedback and return visits
Increased demand for services
Enhanced stakeholder experience
Reduced processing time while maintaining quality service

VALUES
Research as Progress Driver
Client-Centric Approach
Quality Service Delivery
Continuous Improvement

FEARS
Stagnation
Inefficiency and Waste

NEEDS
Relevant Search Results
User-Friendly Interface
Reliable Performance
Integration Capability

WANTS
Complete LitPath AI project and all deliverables
Finalize comprehensive list of thesis/dissertations for project use



RONNA MAE PAMILACAN

Age: 36
Residence: Taguig City, NCR
Education: College Graduate
Occupation: Science Research Specialist I, DOST-STII (Library Services & Social Media Management)

BIO
Ronna Mae T. Pamilacan is a Science Research Specialist I at DOST-STII. With a background in Library and Information Science and Graphics Technology, she specializes in library services and creating social media content to promote library initiatives. Her experience includes assisting with library tours, webinars, and special events, as well as moderating the Online Library Literacy Program.

COMFORT WITH TECHNOLOGY
Comfort to technology 10/10
Internet 10/10
Software/apps 10/10
Social network 10/10

CRITERIA FOR SUCCESS
Providing accurate and timely resources to the clients
Smooth and positive user experience both physical and online library services
Efficient organization of physical and digital collections
Increased engagement of library users

VALUES
Efficiency in providing accurate and timely resources
Assisting clients in finding the right resources
Creativity in promoting library services through design and content

FEARS
Delays in service
User disengagement from the library
Work overload
Limited access to resources

NEEDS
Efficient search system
Better material organization
User-friendly digital interface

WANTS
Intuitive visual design
Faster resource delivery
Up-to-Date Research Materials



IANZAE RYAN EGO

Age: 20
Residence: Taguig
Education: College Undergraduate
Occupation: Student
Marital Status: Single

BIO
Ianzae is a diligent and resourceful 3rd year IT student preparing for his capstone project. He values efficiency and is energized by modern research platforms that are secure, fast, and intuitive. He is driven by the challenge of finding the most current, relevant information that will give his work a competitive edge in the fast-paced field of IT.

COMFORT WITH TECHNOLOGY
Comfort to technology 7/10
Internet 7.5/10
Software/apps 7.5/10
Social network 8/10

CRITERIA FOR SUCCESS
Ease of Use
User-Friendly Interface
Up-to-Date Research Materials

VALUES
A centralized place to search for materials, with resources that are free and legitimate.

FEARS
Concerns about security
Risk of IP detection
Unstable connections
Possibility of accessing links that may contain malware

NEEDS
Updated materials and research resources
Improved UI that isn't overwhelming

WANTS
A better, more modern UI design
More secure link access
A more reliable and modern backend system



VINCE ADRIAN A. BESA

Age: 20
Residence: Taguig
Education: College Undergraduate
Occupation: Student
Marital Status: Single

BIO
Vince is a practical and observant IT student with a keen eye for what makes a digital tool truly effective. He sees the immense potential in online research platforms and is driven to find tools that are reliable, well-designed, and rich with current information to support his coursework. He embraces technology, understanding how to leverage AI to accelerate his research process while maintaining a high standard for accuracy.

COMFORT WITH TECHNOLOGY
Comfort to technology 8/10
Internet 8/10
Software/apps 7/10
Social network 9-10/10

CRITERIA FOR SUCCESS
Accessible to the public
Easy to navigate
Foolproof design with prompts for user errors.

VALUES
Good UI design
Security
Being open-source and free

FEARS
Site security
User and data privacy issues that could affect users.

NEEDS
Further improvements and adjustments to the online library website
Updated materials

WANTS
A better UI, with unnecessary links removed.
A user-friendly and foolproof design.
A website theme that is consistent with DOST colors and a clean design.

Dulay, Jenine Elaine



Design Thinking Outputs

Stage 1 - Empatize: Empathy Map

CLIENT

- Values accessible research & continuous improvement
- Frustrated by inefficiency, poor collaboration, & resistance to change
- Advocates digital transformation & AI-driven solutions



Dulay, Jenine Elaine

EMPLOYEE

- Strives to support clients to find resources
- Frustrated by slow systems & heavy workload
- Enjoys creating publication materials & promoting digital access

CUSTOMERS

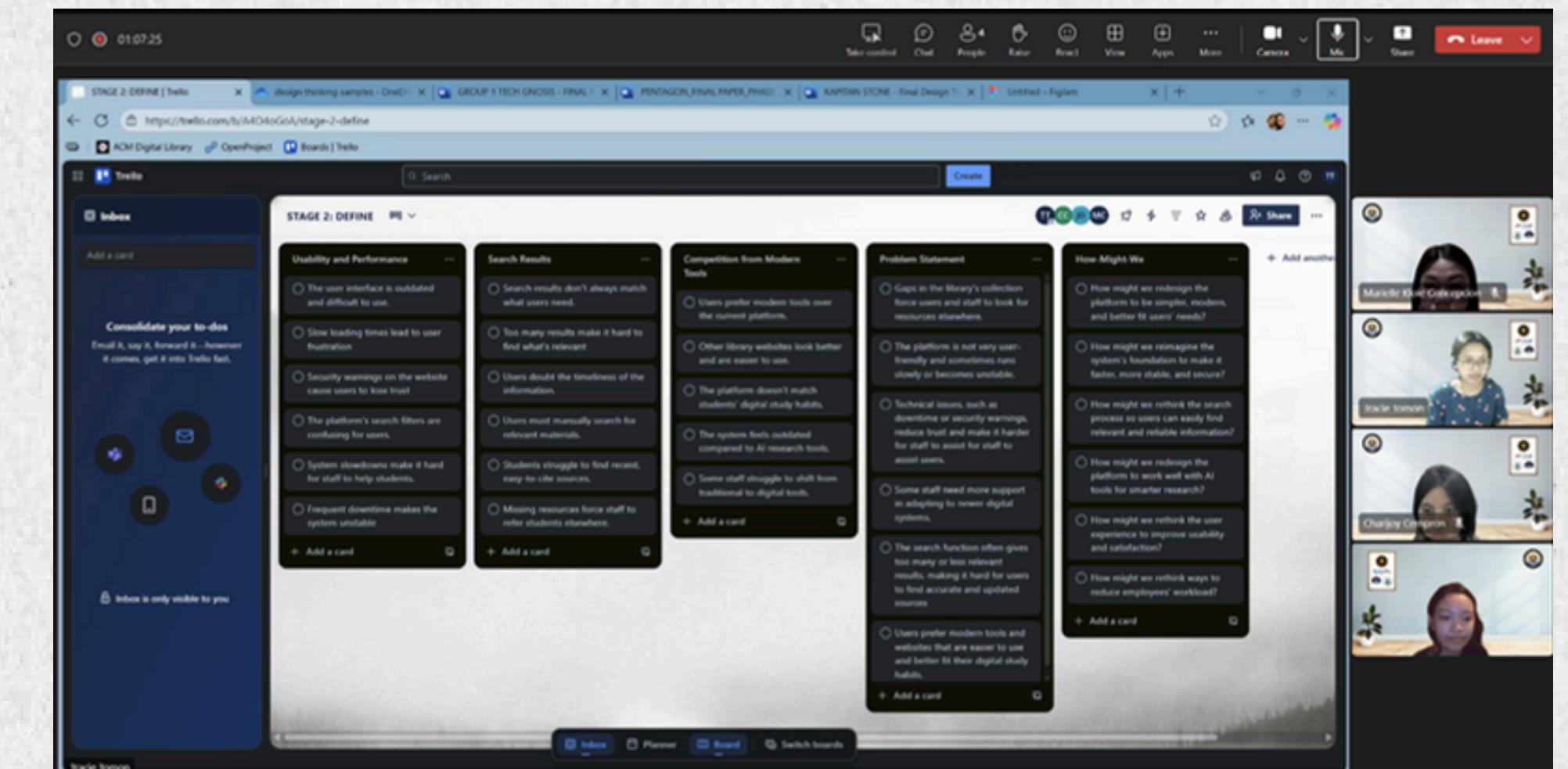
- Need up-to-date, reliable, and easy-to-cite resources
- Frustrated by outdated design, slow loading, and irrelevant/overwhelming results
- Prefer AI tools and Google Scholar, and they cross-check and save sources from multiple platforms.

Design Thinking Outputs

Stage 2 - Define

Clustered Problems

1. Usability and Performance
2. Search Results
3. DOST OPAC vs. Modern Research Tools



The screenshot shows a Trello board titled "STAGE 2: DEFINE". The board is organized into four main columns:

- Usability and Performance:**
 - The user interface is outdated and difficult to use.
 - Slow loading times lead to user frustrations.
 - Security warnings on the website cause users to lose trust.
 - The platform's search filters are confusing for users.
 - System slowdowns make it hard for staff to help students.
 - Frequent downtime makes the system unavailable.
- Search Results:**
 - Search results don't always match what users need.
 - Too many results make it hard to find what's relevant.
 - Users doubt the timeliness of the information.
 - Users must manually search for relevant materials.
 - The system feels outdated compared to AI research tools.
 - Students struggle to find recent, easy-to-use sources.
 - Some staff struggle to shift from traditional to digital tools.
 - Missing resources force staff to refer students elsewhere.
- Competition from Modern Tools:**
 - Users prefer modern tools over the current platform.
 - Other library websites look better and are easier to use.
 - The platform doesn't match students' digital study habits.
 - Technical issues, such as downtime or security warnings, reduce trust and make it harder for staff to assist users.
 - Some staff struggle to shift from traditional to digital tools.
 - Some staff need more support in adapting to newer digital systems.
 - The search function often gives too many or less relevant results, making it hard for users to find accurate and updated sources.
 - Users prefer modern tools and websites that are easier to use and better fit their digital study habits.
- How Might We:**
 - How might we redesign the platform to be simpler, modern, and better fit users' needs?
 - How might we reimagine the system's foundation to make it faster, more stable, and secure?
 - How might we rethink the search process so users can easily find relevant and reliable information?
 - How might we redesign the platform to work well with AI tools for smarter research?
 - How might we refine the user experience to improve usability and satisfaction?
 - How might we rethink ways to reduce employees' workload?

Dulay, Jenine Elaine





Design Thinking Outputs

Stage 2 - Define

Problem Statement

- System is slow and wastes users' time.
- Technical issues reduce trust and hinder support.
- Search results are often irrelevant or outdated.
- Platform has a confusing design compared to modern sites.
- Lacks key features (filters, AI suggestions, citation tools).

The screenshot shows a Trello board titled "STAGE 2: DEFINE". The board is organized into several columns:

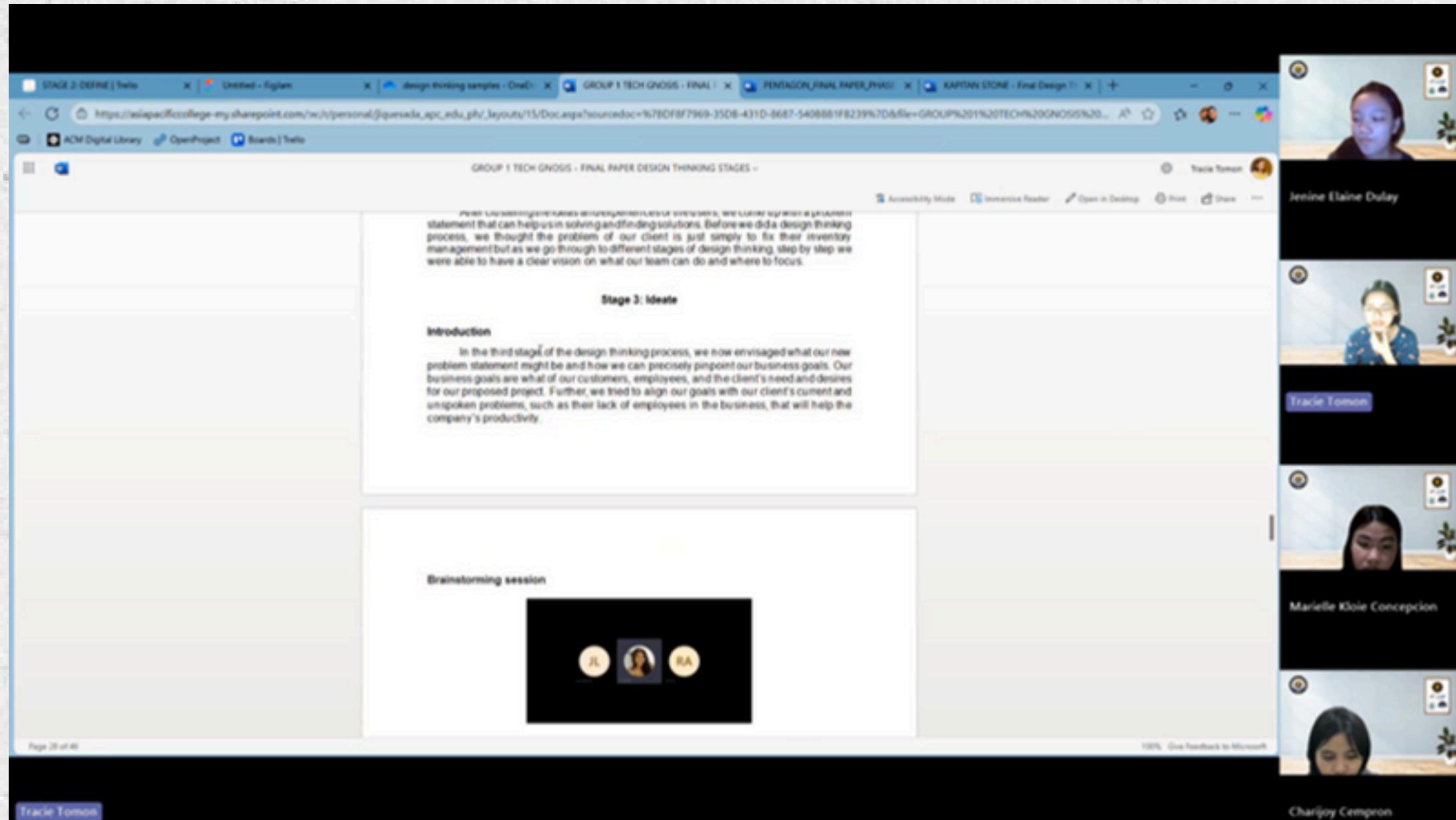
- Usability and Performance:**
 - The user interface is outdated and difficult to use.
 - Slow loading times lead to user frustrations.
 - Security warnings on the website cause users to lose trust.
 - The platform's search filters are confusing for users.
 - System slowdowns make it hard for staff to help students.
 - Frequent downtime makes the system unavailable.
- Search Results:**
 - Search results don't always match what users need.
 - Too many results make it hard to find what's relevant.
 - Users doubt the timeliness of the information.
 - Users must manually search for relevant materials.
 - Students struggle to find recent, easy-to-use sources.
 - Missing resources force staff to refer students elsewhere.
- Competition from Modern Tools:**
 - Users prefer modern tools over the current platform.
 - Other library websites look better and are easier to use.
 - The platform doesn't match students' digital study habits.
 - The system feels outdated compared to AI research tools.
 - Some staff struggle to shift from traditional to digital tools.
- Problem Statement:**
 - Gaps in the library's collection force users and staff to look for resources elsewhere.
 - The platform is not very user-friendly and sometimes runs slowly or becomes unstable.
 - Technical issues, such as downtime or security warnings, reduce trust and make it harder for staff to assist users.
 - Some staff need more support in adapting to newer digital systems.
 - The search function often gives too many or less relevant results, making it hard for users to find accurate and updated sources.
 - Users prefer modern tools and websites that are easier to use and better fit their digital study habits.
- How Might We:**
 - How might we redesign the platform to be simpler, modern, and better fit users' needs?
 - How might we reimagine the system's foundation to make it faster, more stable, and secure?
 - How might we rethink the search process so users can easily find relevant and reliable information?
 - How might we redesign the platform to work well with AI tools for smarter research?
 - How might we refine the user experience to improve usability and satisfaction?
 - How might we rethink ways to reduce employees' workload?

Dulay, Jenine Elaine



Design Thinking Outputs

Stage 3 - Ideate: Brainstorming session



The screenshot shows a Microsoft Word document titled "GROUP 1 TECH GNOSIS - FINAL PAPER DESIGN THINKING STAGES -". The document contains text about the design thinking process and a section titled "Stage 3: Ideate" which includes an introduction and a description of the brainstorming session. To the right of the document, there is a vertical video conference interface showing four participants: Jenine Elaine Dulay, Tracie Tomon, Marielle Kioie Concepcion, and Charijoy Cempros. Each participant has a small video thumbnail and a name label below it.

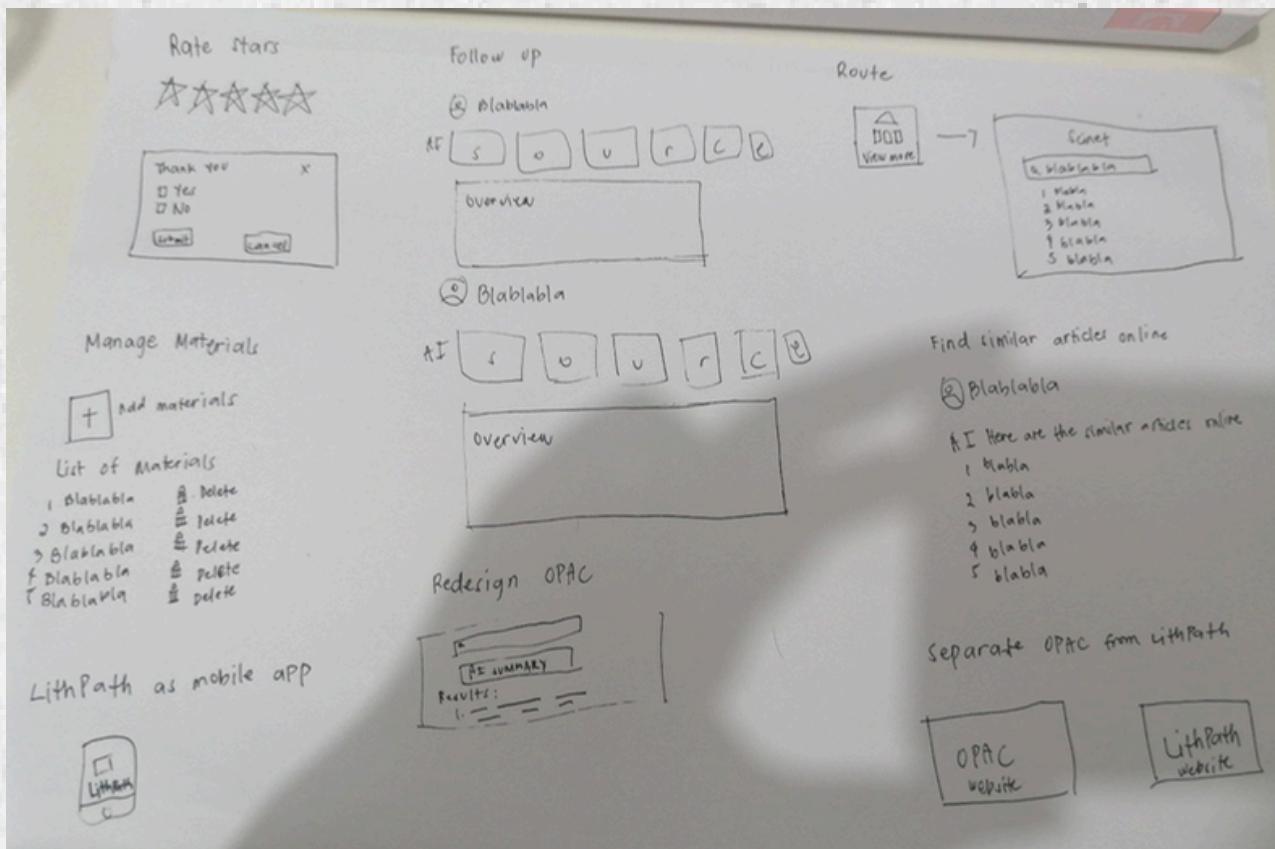
Dulay, Jenine Elaine



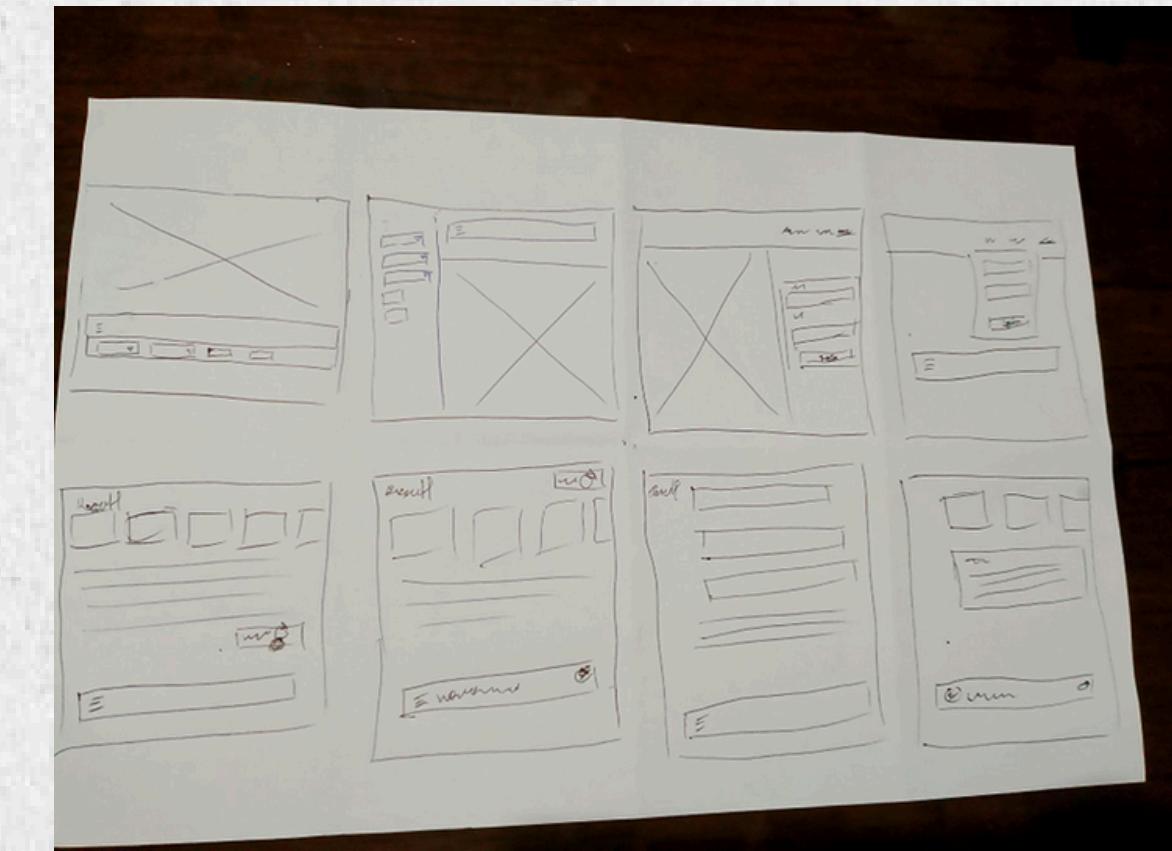


Design Thinking Outputs

Stage 3 - Ideate: Crazy 8s



Charijoy's Crazy 8s



Kloie's Crazy 8s

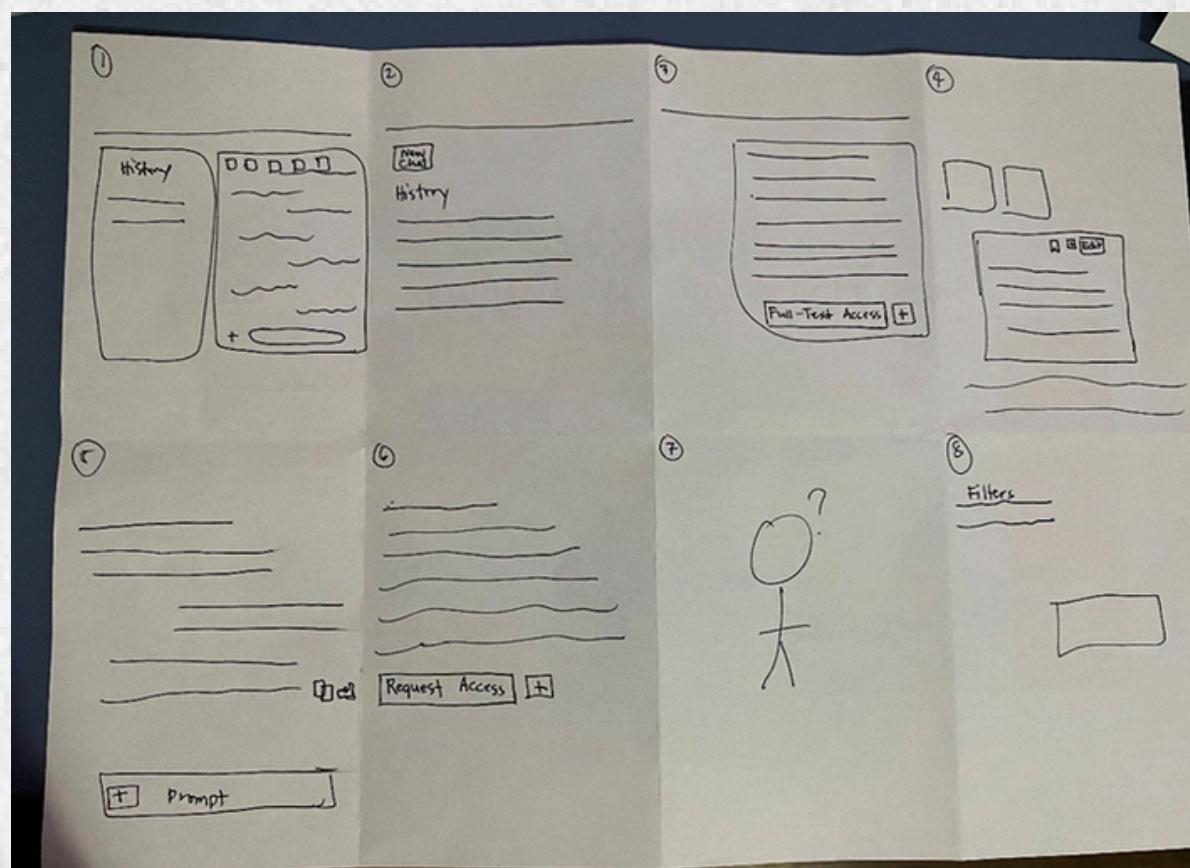
Dulay, Jenine Elaine



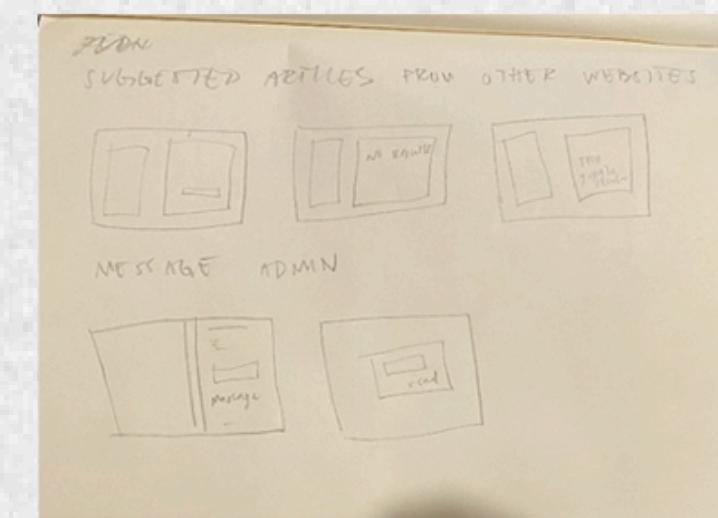
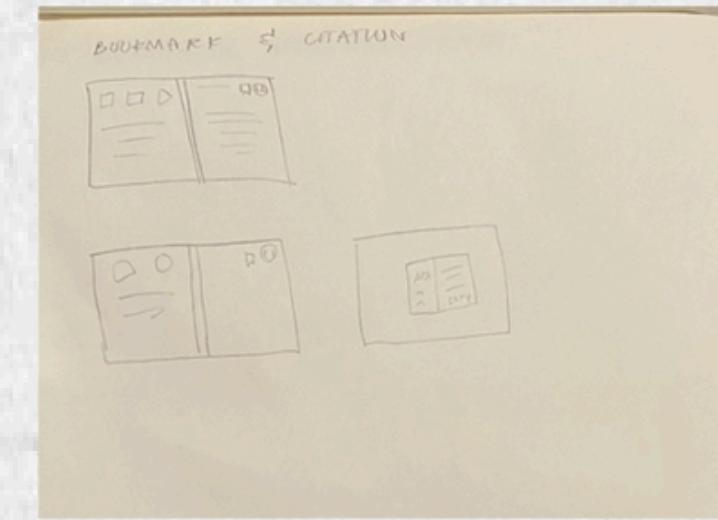
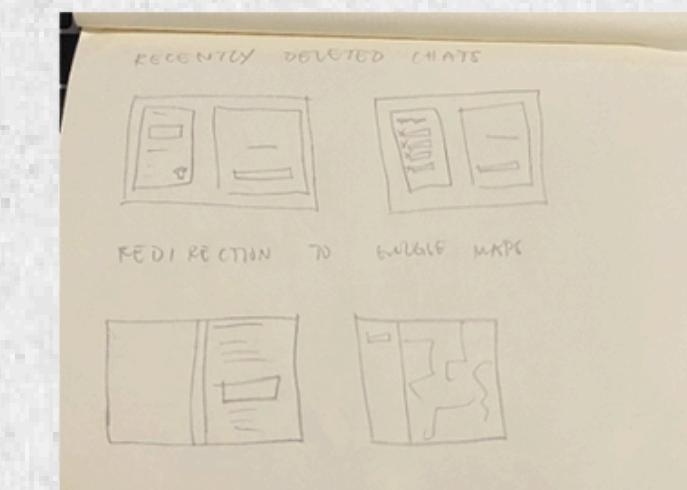
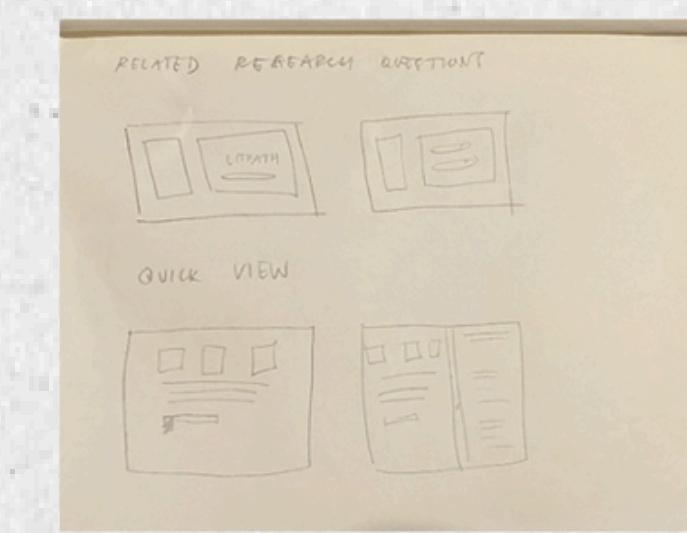


Design Thinking Outputs

Stage 3 - Ideate: Crazy 8s



Tracie's Crazy 8s



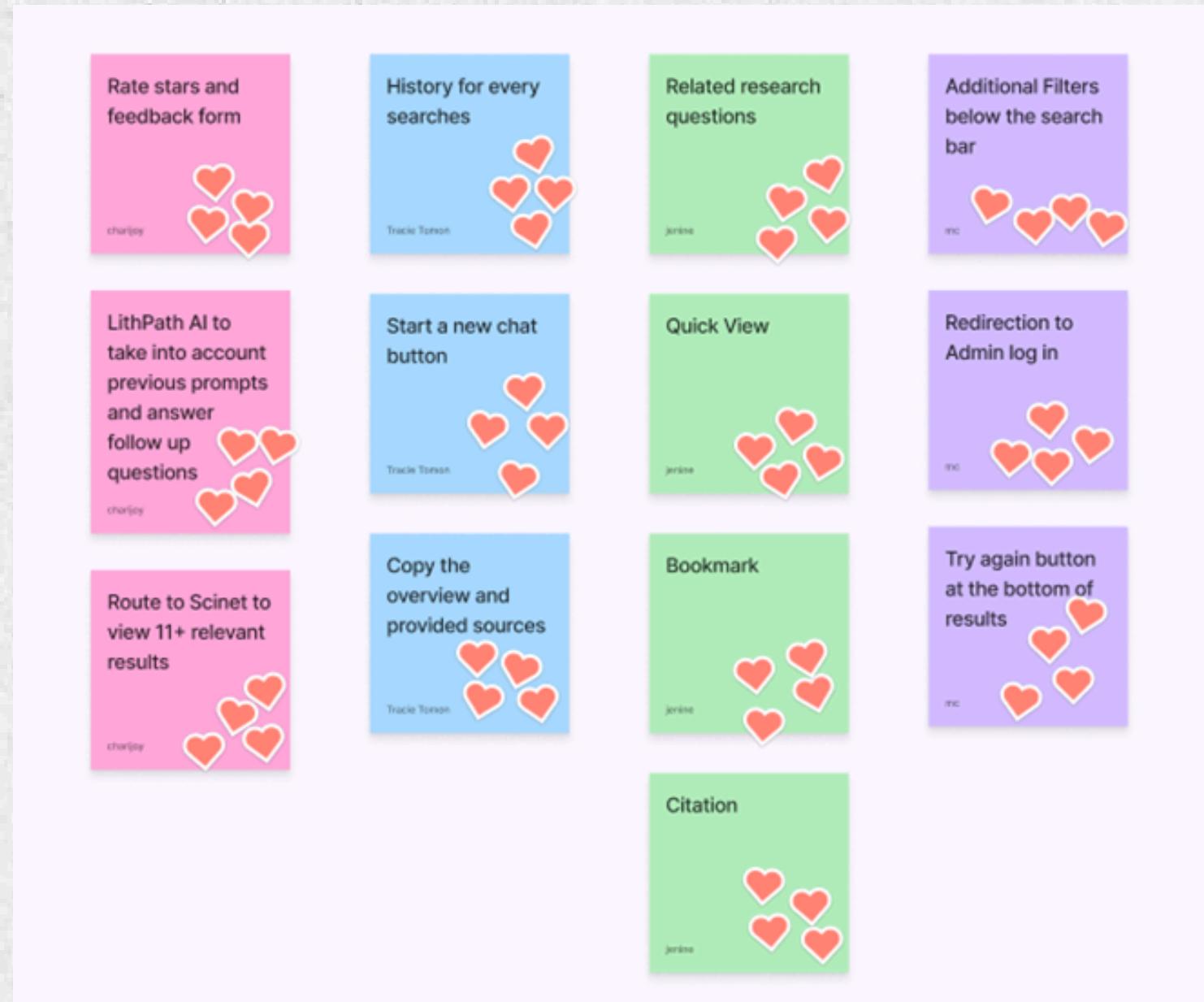
Jenine's Crazy 8s

Dulay, Jenine Elaine



Design Thinking Outputs

Stage 3 - Ideate: Desirability, Viability, Feasibility



Concepcion, Marielle Kloie





Design Thinking Outputs

Stage 4- Prototype

FIGMA LINK

Cempron, Charijoy

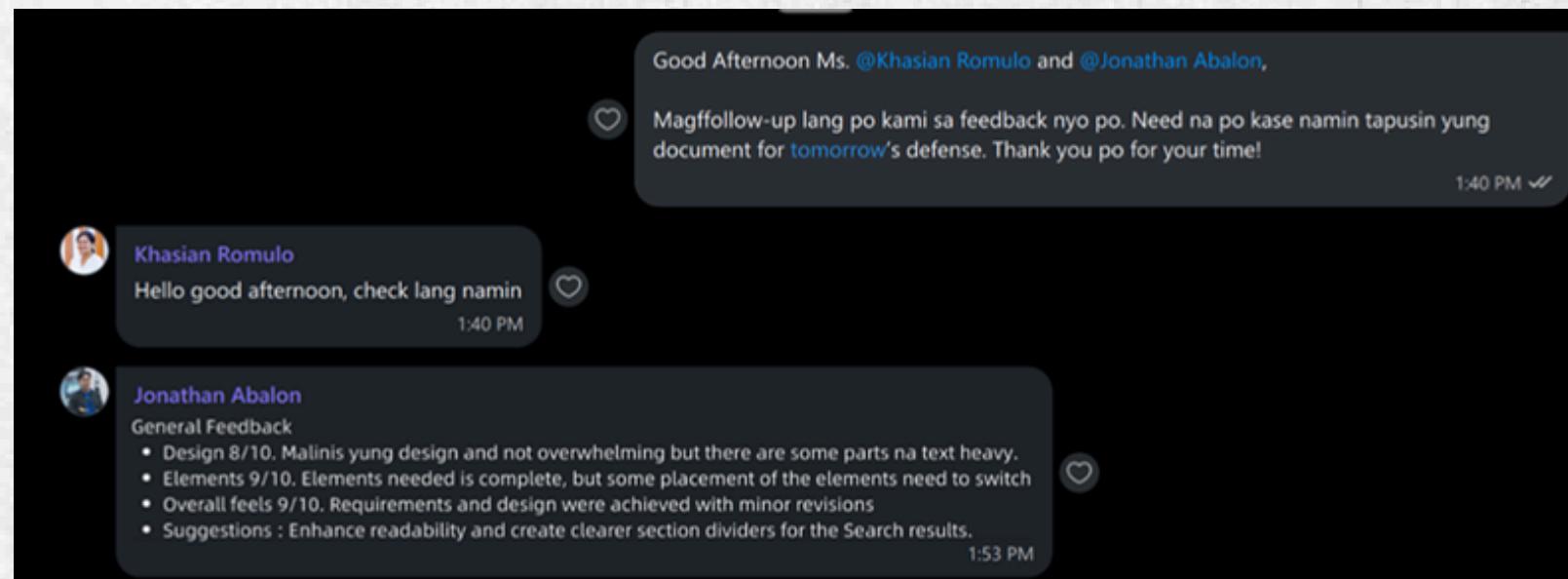




Design Thinking Outputs

Stage 5- Test

Client Feedback



- **Design:** 8/10. The design is clean and not overwhelming but there are some parts which are text heavy.
- **Elements:** 9/10. Elements needed is complete, but some placement of the elements need to switch
- **Overall feels:** 9/10. Requirements and design were achieved with minor revisions
- **Suggestions:** Enhance readability and create clearer section dividers for the Search results.

Cempron, Charijoy



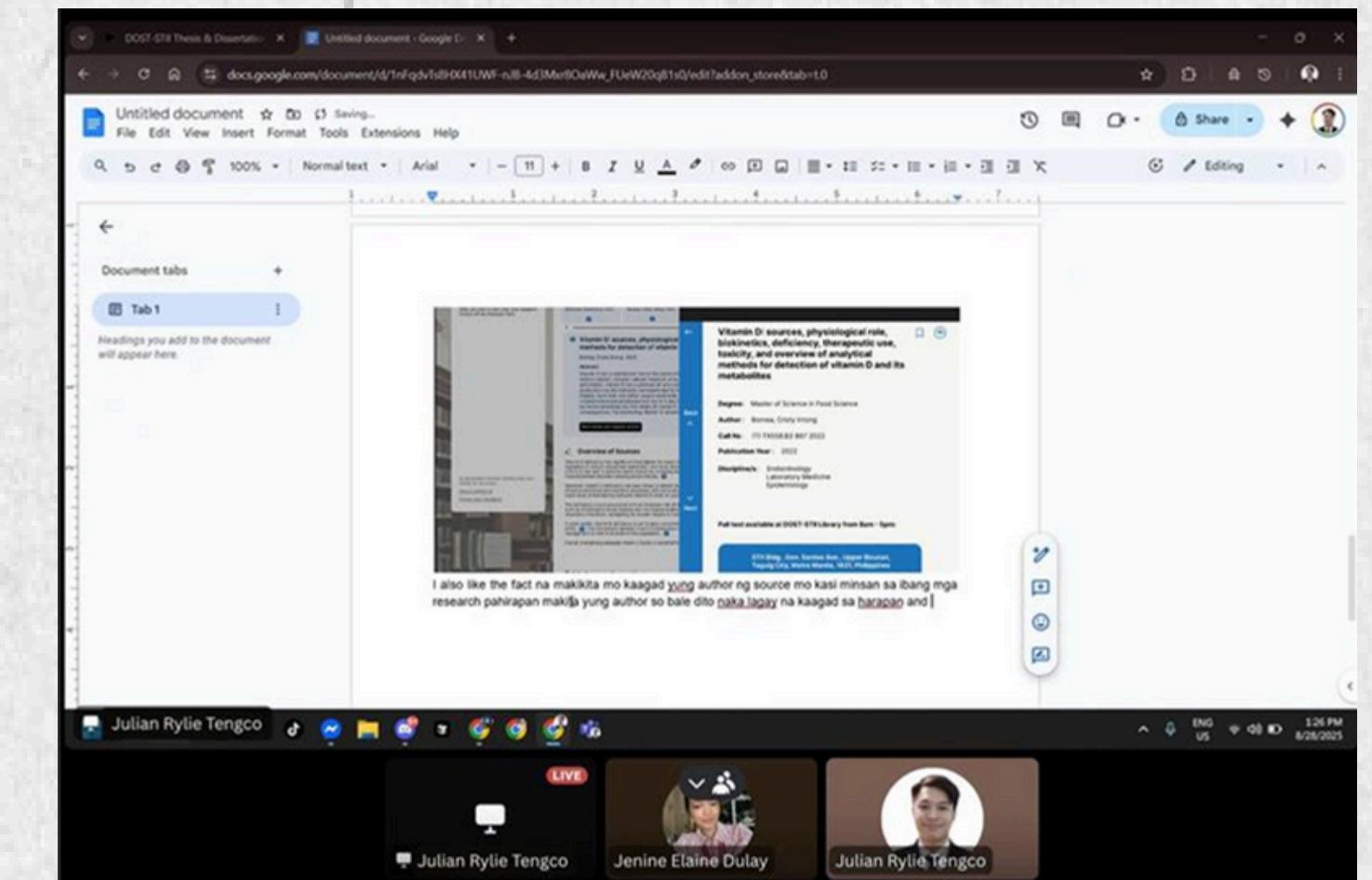


Design Thinking Outputs

Stage 5- Test

General Feedback

- Design clean & easy to use
- Liked citation generator & search features
- **Suggested:** in-text citations, longer chat history, clearer dividers, better element placement

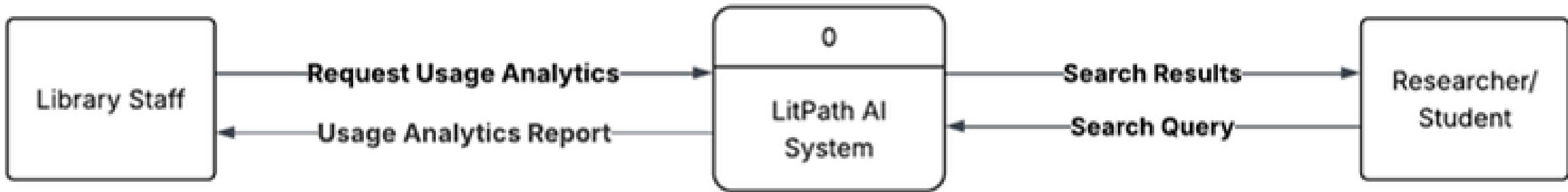


Cempron, Charijoy



Dataflow Diagrams

Level 0

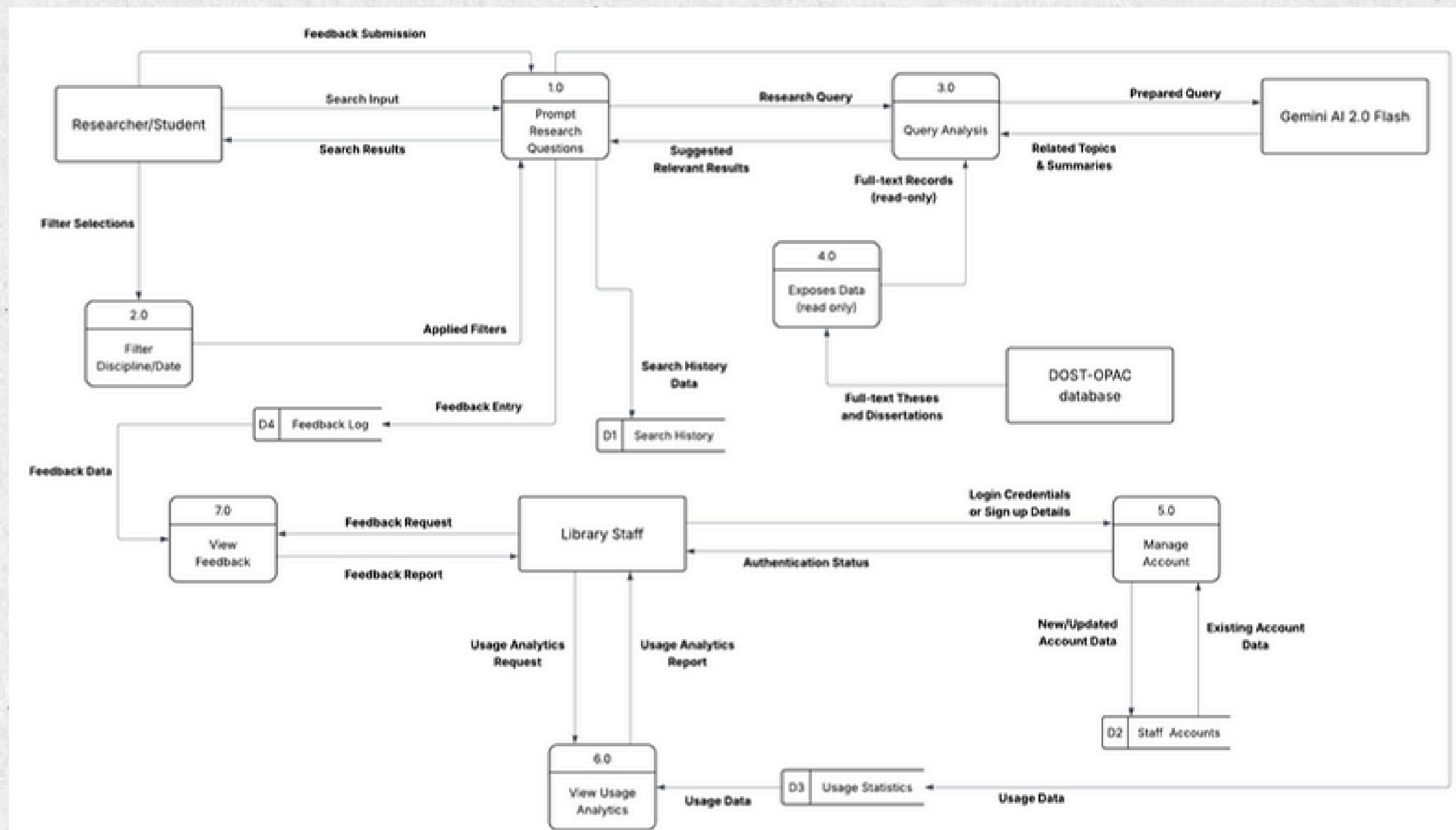


Tomon, Tracie



Dataflow Diagrams

Level 1

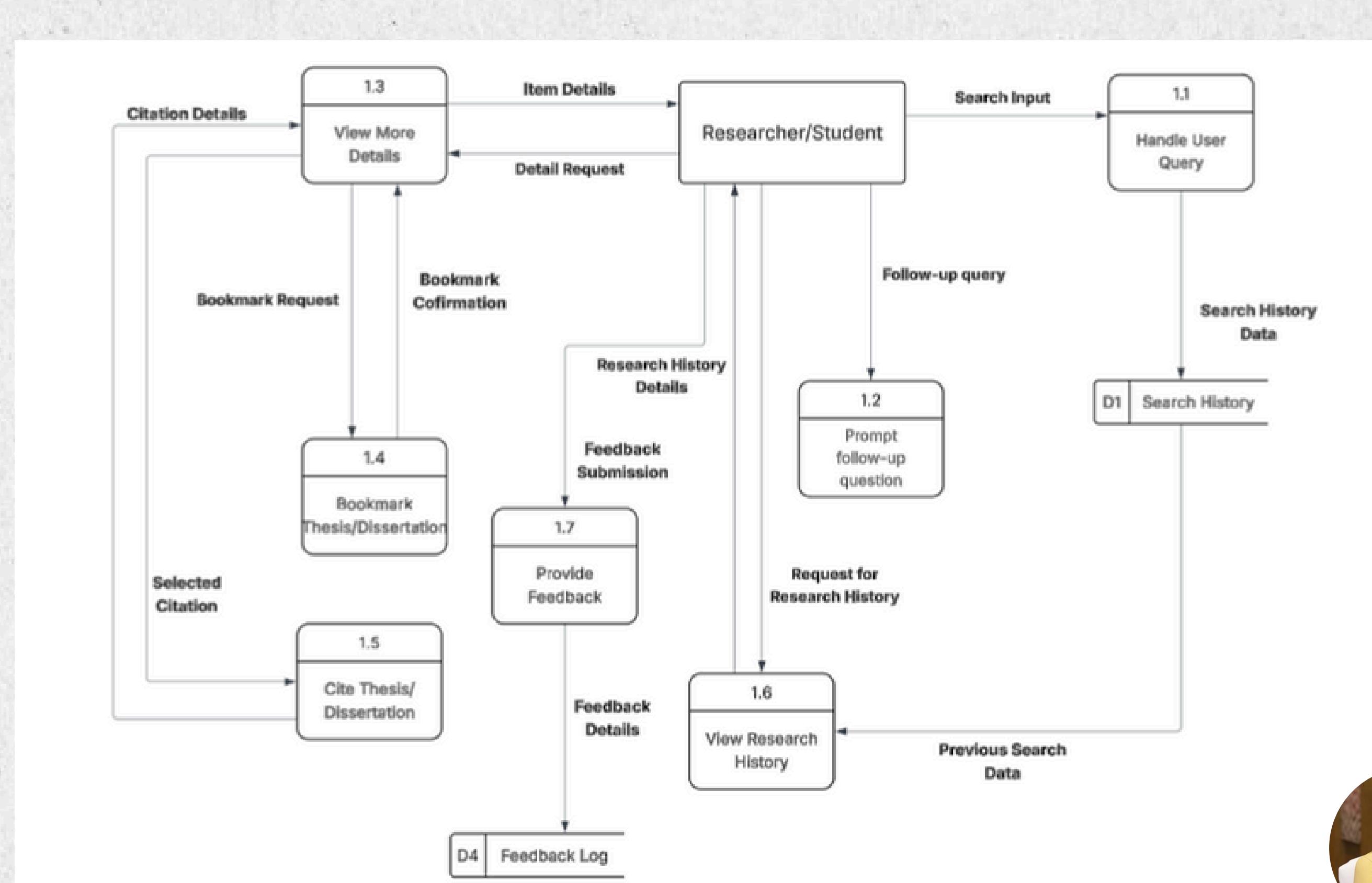


Tomon, Tracie



Dataflow Diagrams

Level 2: Prompt Research Questions



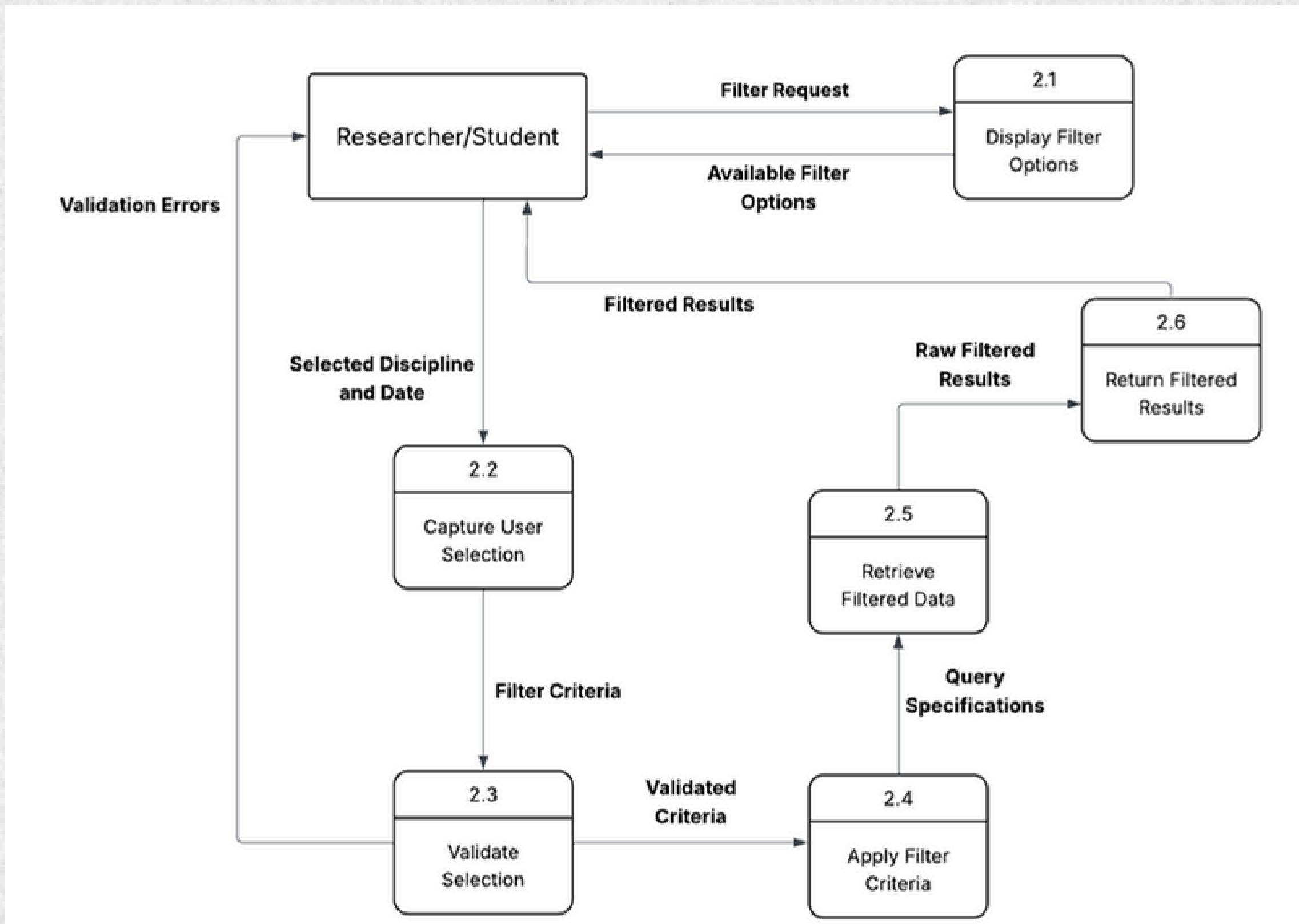
Tomon, Tracie





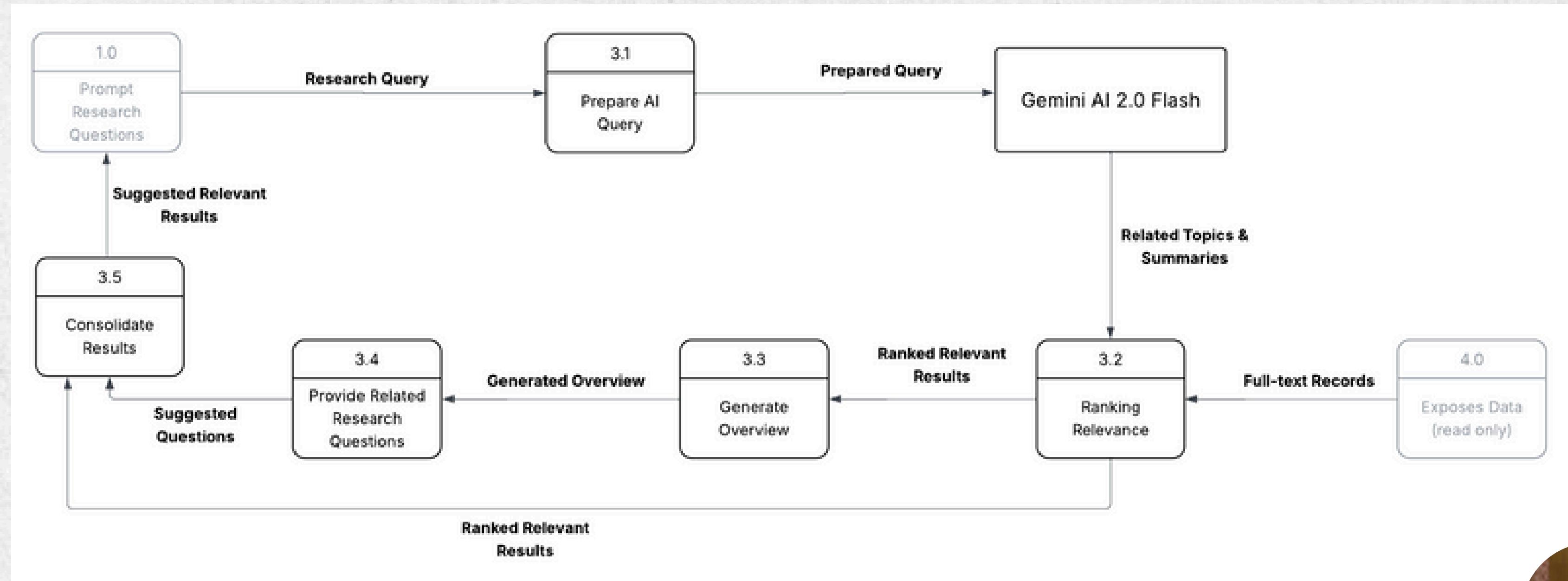
Dataflow Diagrams

Level 2: Filter Discipline/Date



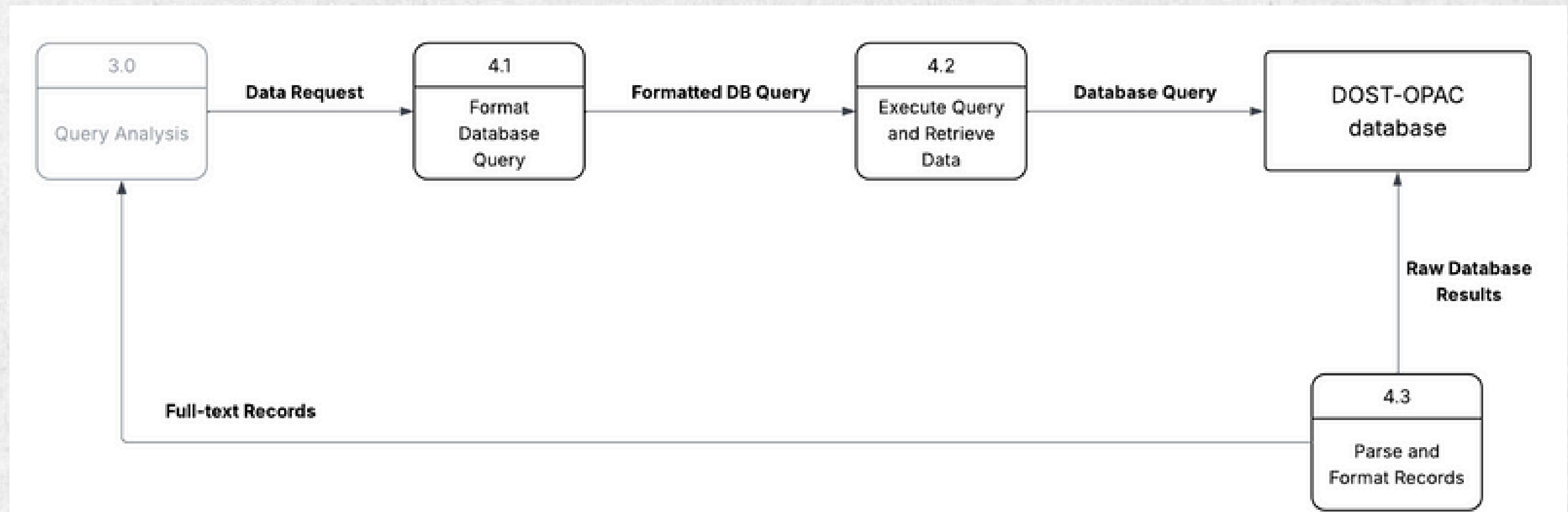
Dataflow Diagrams

Level 2: Query Analysis



Dataflow Diagrams

Level 2: Exposes Data (read-only)

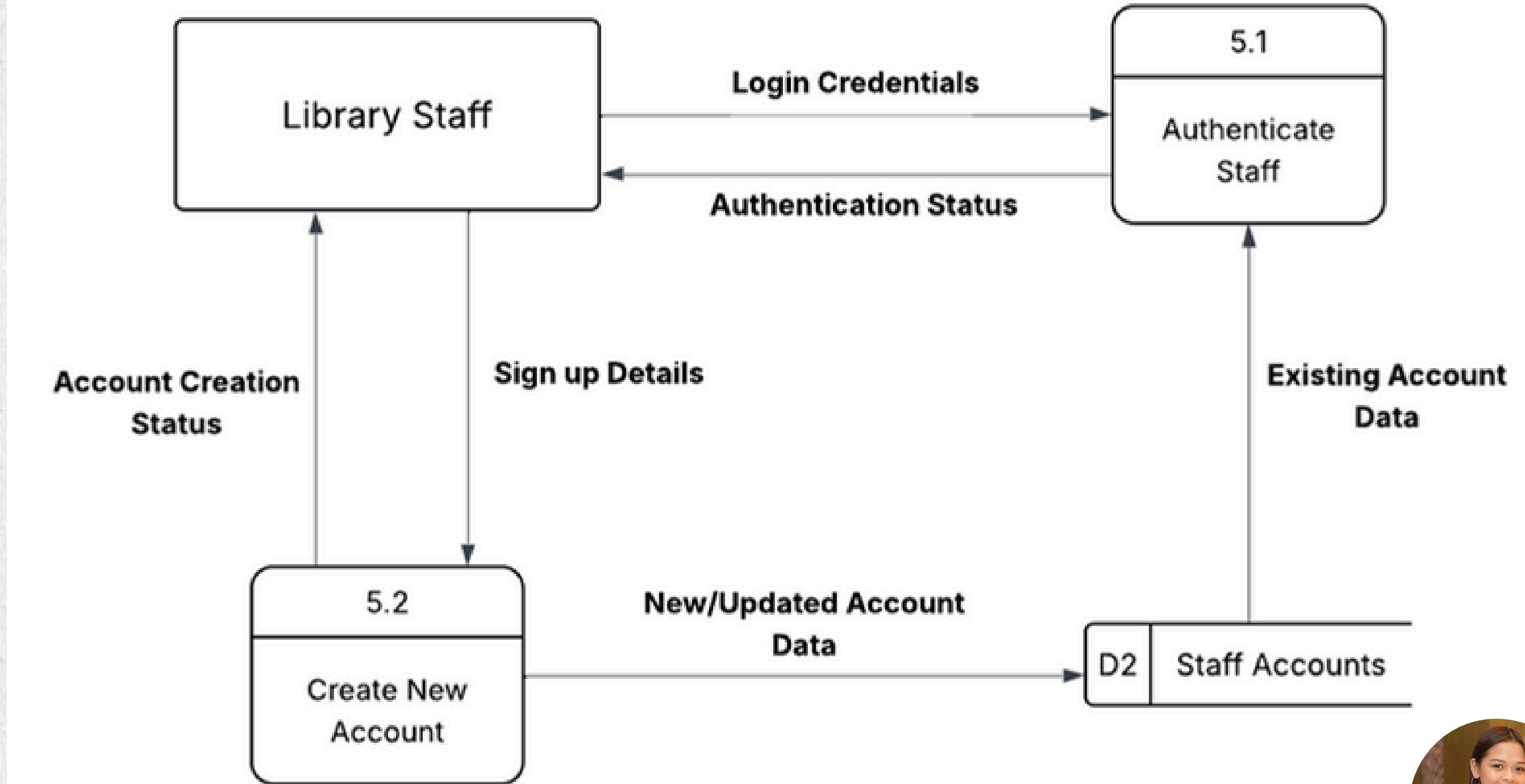


Tomon, Tracie



Dataflow Diagrams

Level 2: Manage Account

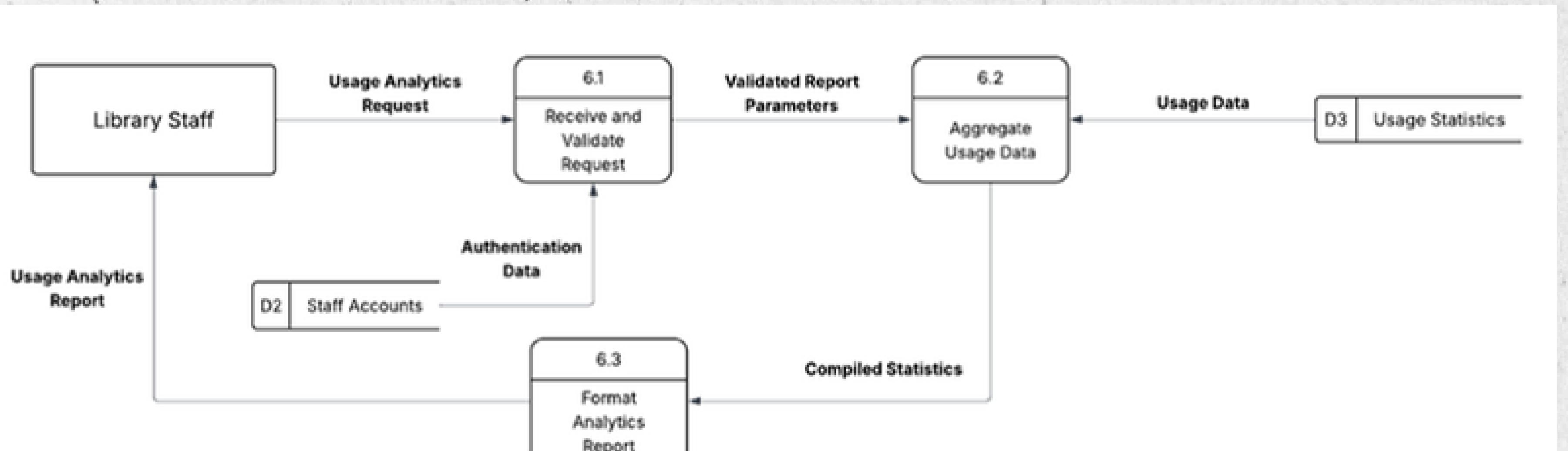


Tomon, Tracie



Dataflow Diagrams

Level 2: View Usage Analytics

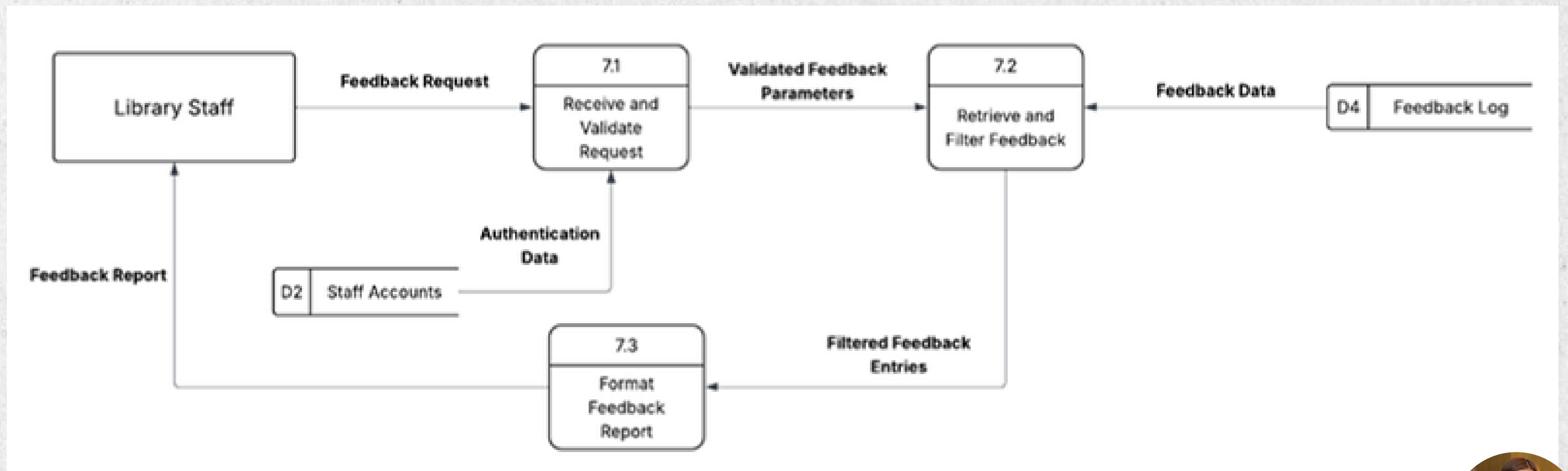


Tomon, Tracie



Dataflow Diagrams

Level 2: View Feedback



Tomon, Tracie



Openproject Output

Initial Budget for 2.0 Planning Phase

OpenProject / APC_2025_2026_T1_M1231_G07 HecTech LitPath AI / Budgets / Budget #56

Budget #56

Planning Phase Budget
Added by CharJoy Cempron 12 days ago.

Cost type: Budget
Fixed date: 08/16/2025
Spent (ratio): 0% Total progress

Description: **UNITS**

Planned unit costs				Actual unit costs			
UNITS	COST TYPE	COMMENT	BUDGET	WORK PACKAGE	UNITS	COST TYPE	COSTS
560.00	Food Allowance		PHP 56,000.00				PHP 0.00
11.00	Contingency Reserve		PHP 110,000.00				
			PHP 166,000.00				

LABOR

Planned labor costs				Actual labor costs			
HOURS	USER	COMMENT	BUDGET	WORK PACKAGE	HOURS	USER	COSTS
560.00 hours	CharJoy Cempron		PHP 56,000.00				PHP 0.00
560.00 hours	Jenine Elaine Dulay		PHP 56,000.00				
560.00 hours	Marielle Kloie Concepcion		PHP 56,000.00				
560.00 hours	Tracie Tomon		PHP 56,000.00				
			PHP 224,000.00				

Concepcion, Marielle Kloie





Openproject Output

Product Roadmap

OpenProject / APC_2025_2026_T1_MI231_G07 HecTech LitPath AI / Roadmap

Roadmap

0.0 Pre-alpha
Early development stage, primarily for internal use and prototyping.

33 closed (92%) 3 open (8%)

92% Total progress

RELATED WORK PACKAGES

- Phase #053: 1.0 Initiation Phase
- Phase #054: 2.0 Planning Phase
- Task #075: 1.1 Design Thinking Stage 1: Empathize
- Task #000: 1.0.1 Prospective Client Discovery
- Task #001: 1.0.2 Finalize choice of IIP/PBL Client
- Task #003: 1.2.1 Create Charter
- Task #004: 1.2.2 Create Objectives
- Task #005: 1.2.3 Create Scope
- Task #006: 1.2.4 Create Stakeholder Analysis
- Task #093: 2.3.1.1 Context Diagram
- Task #094: 2.3.1.2 Dataflow Diagram Level 1
- Task #097: 2.3.1.2.1 Dataflow Diagram Level 2.1
- Task #098: 2.3.1.2.2 Dataflow Diagram Level 2.2
- Task #901: 2.3.2.1.1 Test Case for Use Case 2.3.2.1.1
- Task #902: 2.3.2.1.2 Test Case for Use Case 2.3.2.1.1
- Task #903: 2.3.2.1.0 Activity Diagram with Swimlanes for Use Case 2.3.2.1.1

0.10 Alpha
Internal testing phase, focused on functionality and bug fixing.

2 closed (5%) 38 open (95%)

5% Total progress

RELATED WORK PACKAGES

- Phase #855: 3.0 Executing Phase
- Phase #856: 4.0 Monitoring and Controlling
- Task #861: 4.1 Tracking progress
- Task #866: 4.2 Comparing it to the plan
- Task #867: 4.3 Identifying any deviations or issues
- Task #868: 4.4 Measuring performance
- Task #077: 3.1 Design Thinking Stage 4: Prototype
- Task #078: 3.2 Design Thinking Stage 5: Test
- Task #1860: 4.5 Performance Reporting

- Task #1860: 4.5 Performance Reporting
- Task #1861: 4.6 Risk and Issue Management
- Task #1862: 4.7 Quality Assurance and Control
- Task #1894: 3.1.1.1 Task 02 Develop intent recognition algorithms
- Task #1895: 3.1.1.1 Task 01 Implement AI query analysis
- Epic #1882: 3.1 Epics
- Epic #1885: 3.1 Epic 01 AI-Powered Search & Discovery
- Epic #1886: 3.1 Epic 02 Research Management & Tools
- Epic #1888: 3.1 Epic 03 Interactive AI Assistant
- Epic #1889: 3.1 Epic 04 User Experience & Feedback
- Epic #1890: 3.1 Epic 05 Administrative Dashboard
- Feature #1893: 3.1.1.1 Feature 01 Natural Language Processing
- Feature #1897: 3.1.1.1 Feature 01: Comprehensive Information Display
- Feature #1898: 3.1.1.1 Feature 02: Research Organization
- Feature #1899: 3.1.1.1 Feature 03: Citation Generation
- Feature #1901: 3.1.1.1 Feature 01: Follow-up Questions
- Feature #1902: 3.1.1.1 Feature 02: Research Recommendations
- Feature #1904: 3.1.1.1 Feature 01: User-Friendly Interface
- Feature #1905: 3.1.1.1 Feature 02: Feedback System
- Feature #1907: 3.1.1.1 Feature 01: Usage Analytics Dashboard
- Feature #1909: 3.1.1.1 Feature 02: Feedback Management
- User story #1892: 3.1.1 User Story 01 Query Processing
- User story #1896: 3.1.1 User Story 01: Content Management
- User story #1900: 3.1.1 User Story 01: Conversational Interface
- User story #1903: 3.1.1 User Story 01: Interface Design
- User story #1906: 3.1.1 User Story 01: Analytics & Monitoring



Concepcion, Marielle Kloie



Openproject Output

Work Packages

OpenProject / APC_2025_2026_T1_MI231_G07 HecTech LitPath AI / Work packages / Favorite: All Work Packages

All Work Packages

+ Create Include projects Baseline Filter 0

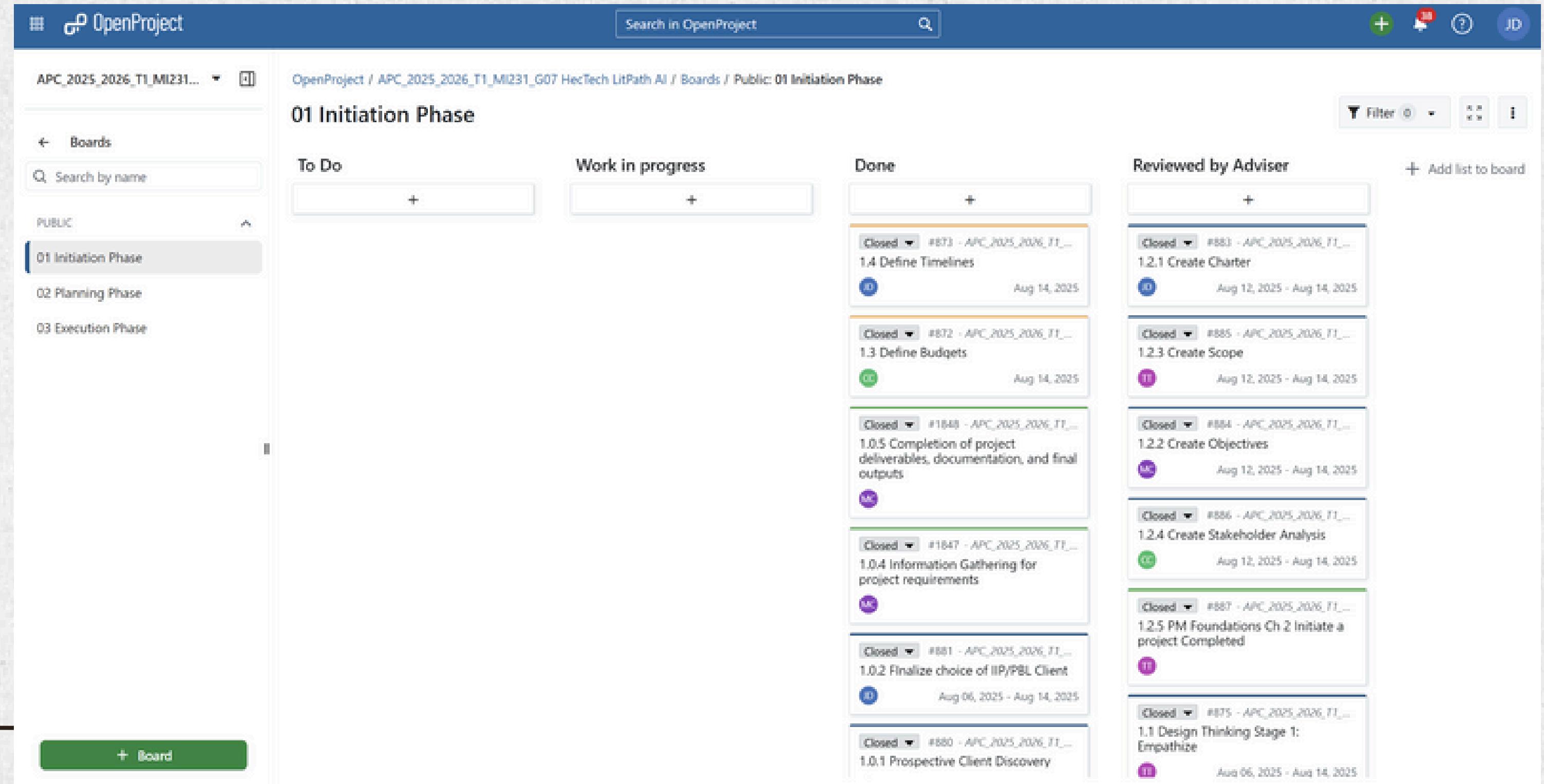
ID	SUBJECT	TYPE	STATUS	ASSIGNEE	PRIORITY	PROJECT PHASE	VERSION
853	1.0 Initiation Phase	PHASE	Closed	CC Charijoy Cempron	Normal	Initiating	0.0 Pre-alpha
860	1.0.1 Prospective Client Discovery	TASK	Closed	CC Charijoy Cempron	Normal	Initiating	0.0 Pre-alpha
861	1.0.2 Finalize choice of IIP/PBL Client	TASK	Closed	JD Jenine Elaine Dulay	Normal	Initiating	0.0 Pre-alpha
1846	1.0.3 Project Scoping	MILESTONE	Closed	TT Tracie Tomon	Normal	Initiating	0.0 Pre-alpha
1847	1.0.4 Information Gathering for project requirements	MILESTONE	Closed	MC Marielle Kloie Concepcion	Normal	Initiating	0.0 Pre-alpha
1848	1.0.5 Completion of project deliverables, documentation, and final outputs	MILESTONE	Closed	MC Marielle Kloie Concepcion	Normal	Initiating	0.0 Pre-alpha
1849	1.0.6 Completion of interactive prototype design (for Figma prototype)	MILESTONE	Closed	MC Marielle Kloie Concepcion	Normal	Initiating	0.0 Pre-alpha
875	1.1 Design Thinking Stage 1: Empathize	TASK	Closed	TT Tracie Tomon	Normal	Initiating	0.0 Pre-alpha
874	1.2 PM Foundations Ch 2 Initiate a project	SUMMARY TASK	Closed	JD Jenine Elaine Dulay	Normal	Initiating	0.0 Pre-alpha
883	1.2.1 Create Charter	TASK	Closed	JD Jenine Elaine Dulay	Normal	Initiating	0.0 Pre-alpha
884	1.2.2 Create Objectives	TASK	Closed	MC Marielle Kloie Concepcion	Normal	Initiating	0.0 Pre-alpha
885	1.2.3 Create Scope	TASK	Closed	TT Tracie Tomon	Normal	Initiating	0.0 Pre-alpha
886	1.2.4 Create Stakeholder Analysis	TASK	Closed	CC Charijoy Cempron	Normal	Initiating	0.0 Pre-alpha
887	1.2.5 PM Foundations Ch 2 Initiate a project Completed	MILESTONE	Closed	TT Tracie Tomon	Normal	Initiating	0.0 Pre-alpha
872	1.3 Define Budgets	SUMMARY TASK	Closed	CC Charijoy Cempron	Normal	Initiating	0.0 Pre-alpha
873	1.4 Define Timelines	SUMMARY TASK	Closed	JD Jenine Elaine Dulay	Normal	Initiating	0.0 Pre-alpha
854	2.0 Planning Phase	PHASE	Closed	TT Tracie Tomon	Normal	Planning	0.0 Pre-alpha
858	2.1 Design Thinking Stage 2: Define	SUMMARY TASK	Closed	TT Tracie Tomon	Normal	Planning	0.0 Pre-alpha
876	2.2 Design Thinking Stage 3: Ideate	SUMMARY TASK	Closed	CC Charijoy Cempron	Normal	Planning	0.0 Pre-alpha
879	2.3 Requirements and Analysis Design Diagrams	SUMMARY TASK	Closed	TT Tracie Tomon	Normal	Planning	0.0 Pre-alpha



Concepcion, Marielle Kloie

Openproject Output

Kanban Board



The screenshot shows a Kanban board for the '01 Initiation Phase' of a project titled 'APC_2025_2026_T1_MI231...'. The board has five columns: 'To Do', 'Work in progress', 'Done', 'Reviewed by Adviser', and an empty column. The 'Done' column contains six tasks, each with a status of 'Closed' and a due date of 'Aug 14, 2025'. The tasks are: 1.4 Define Timelines, 1.3 Define Budgets, 1.0.5 Completion of project deliverables, documentation, and final outputs, 1.0.4 Information Gathering for project requirements, 1.0.2 Finalize choice of IIP/PBL Client, and 1.0.1 Prospective Client Discovery. The 'Reviewed by Adviser' column contains seven tasks, each with a status of 'Closed' and a due date of 'Aug 12, 2025 - Aug 14, 2025'. The tasks are: 1.2.1 Create Charter, 1.2.3 Create Scope, 1.2.2 Create Objectives, 1.2.4 Create Stakeholder Analysis, 1.2.5 PM Foundations Ch 2 Initiate a project Completed, and 1.1 Design Thinking Stage 1: Empathize.

Column	Task Description	Status	Due Date
Done	1.4 Define Timelines	Closed	Aug 14, 2025
	1.3 Define Budgets	Closed	Aug 14, 2025
	1.0.5 Completion of project deliverables, documentation, and final outputs	Closed	Aug 14, 2025
	1.0.4 Information Gathering for project requirements	Closed	Aug 14, 2025
	1.0.2 Finalize choice of IIP/PBL Client	Closed	Aug 14, 2025
	1.0.1 Prospective Client Discovery	Closed	Aug 14, 2025
Reviewed by Adviser	1.2.1 Create Charter	Closed	Aug 12, 2025 - Aug 14, 2025
	1.2.3 Create Scope	Closed	Aug 12, 2025 - Aug 14, 2025
	1.2.2 Create Objectives	Closed	Aug 12, 2025 - Aug 14, 2025
	1.2.4 Create Stakeholder Analysis	Closed	Aug 12, 2025 - Aug 14, 2025
	1.2.5 PM Foundations Ch 2 Initiate a project Completed	Closed	Aug 12, 2025 - Aug 14, 2025
	1.1 Design Thinking Stage 1: Empathize	Closed	Aug 12, 2025 - Aug 14, 2025

Concepcion, Marielle Kloie



Openproject Output

RACI Assignments

PEOPLE

Assignee	 JD Jenine Elaine Dulay	Responsible*	 JD Jenine Elaine Dulay
Accountable	 JD Jenine Elaine Dulay	Consulted	 R@ roselleg @apc.edu.ph
Informed	 K@ khasian.romulo @stii.dost.gov.ph  J@ jonathan.abalon @stii.dost.gov.ph		

ESTIMATES AND PROGRESS

Work	3h	Remaining work	0h
% Complete	100%	Spent time	3h 

DETAILS

Priority *	 Normal	Date	08/12/2025 - 08/14/2025
Project phase	 Initiating	Category	Documentation
Version	0.0 Pre-alpha		

COSTS

Spent units	3 Food Allowance	Labor costs	PHP 300.00
Unit costs	PHP 300.00	Overall costs	PHP 600.00
Budget	Initiation Phase Budget		

Concepcion, Marielle Kloie



Openproject Output

Backlogs

OpenProject / APC_2025_2026_T1_MI231_G07 HecTech LitPath AI / Backlogs		
Backlogs		
▼	0.90 release Candidate	0 ▾
▼	1.0 Final/Stable Release	0 ▾
▼	0.0 Pre-alpha	0 ▾
^	0.10 Alpha	0 ▾
1882	Epic: 3.1 Epics	New
1909	Feature: 3.1.1.1 Feature 02: Feedback Management	New
1907	Feature: 3.1.1.1 Feature 01: Usage Analytics Dashboard	New
1906	User story: 3.1.1 User Story 01: Analytics & Monitoring	New
1890	Epic: 3.1 Epic 05 Administrative Dashboard	New
1905	Feature: 3.1.1.1 Feature 02: Feedback System	New
1904	Feature: 3.1.1.1 Feature 01: User-Friendly Interface	New
1903	User story: 3.1.1 User Story 01: Interface Design	New
1889	Epic: 3.1 Epic 04 User Experience & Feedback	New
1902	Feature: 3.1.1.1 Feature 02: Research Recommendations	New
1901	Feature: 3.1.1.1 Feature 01: Follow-up Questions	New
1900	User story: 3.1.1 User Story 01: Conversational Interface	New
1885	Epic: 3.1 Epic 01 AI-Powered Search & Discovery	New
1888	Epic: 3.1 Epic 03 Interactive AI Assistant	New
1899	Feature: 3.1.1.1 Feature 03: Citation Generation	New
1898	Feature: 3.1.1.1 Feature 02: Research Organization	New
1897	Feature: 3.1.1.1 Feature 01: Comprehensive Information Display	New
1896	User story: 3.1.1 User Story 01: Content Management	New
1886	Epic: 3.1 Epic 02 Research Management & Tools	New
1893	Feature: 3.1.1.1 Feature 01 Natural Language Processing	New
1892	User story: 3.1.1 User Story 01 Query Processing	New

Concepcion, Marielle Kloie



Individual Contributions



Cempron, Charijoy

DESIGN THINKING

Stage 1

- Client Interview Questions
- Client Interview encoding
- Client Personas
- Client Empathy Map
- Client Pain-Gain Analysis

Stage 2

- Generation of clustered problems
- Formulate How-Might-We statements

Stage 3

- Individual crazy 8's design
- Post-it voting
- Generate desirable, viable, feasible statements

Stage 4

- Storyboard visuals
- Prototype design

Stage 5

- Client feedback update
- Overall Finalization of Stage 5

OpenProj outputs:

- Initial Budgets
- Product Roadmap
- Work Packages
- RACI assignments
- Backlogs

MNTSDEV Outputs

- Product roadmap

PM Docs Chapter 2

- Stakeholder Analysis

Individual Contributions



Concepcion, Marielle Kloie

DESIGN THINKING

Stage 1

- Employee Interview Questions
- Employee Interview encoding
- Employee Personas
- Employee Empathy Map
- Employee Pain-Gain Analysis

Stage 2

- Generation of clustered problems
- Formulate How-Might-We statements

Stage 3

- Individual crazy 8's design
- Post-it voting
- Generate desirable, viable, feasible statements

DataFlow Diagrams

- Level 0

PM Docs Chapter 2

- Objectives

Individual Contributions



Dulay, Jenine Elaine

DESIGN THINKING

Stage 1

- Formulate open-ended questions
- Customer #2 Interview encoding
- Customer #2 Personas
- Customer #2 Empathy Map
- Customer #2 Pain-Gain Analysis

Stage 2

- Generation of clustered problems
- Formulate How-Might-We statements

Stage 3

- Individual crazy 8's design
- Post-it voting
- Generate desirable, viable, feasible statements

Stage 4

- Storyboard visuals
- Prototype design
- Overall Finalization of Stage 4

Stage 5

- Client feedback update

OpenProj outputs:

- Boards (Planning and Execution Phases)

MNTSDEV Outputs

- UCD
- Fully-dressed use cases
- Updated product backlogs

PM Docs Chapter 2

- Charter
- PPT

Individual Contributions



Tomon, Tracie

DESIGN THINKING

Stage 1

- Customer Interview Questions
- Customer #1 Interview encoding
- Customer #1 Personas
- Customer #1 Empathy Map
- Customer #1 Pain-Gain Analysis
- 5 Why's
- Pain-Gain Analysis Summary
- Overall Finalization of Stage 1

Stage 2

- Generation of clustered problems
- Formulate How-Might-We statements
- Overall Finalization of Stage 2

Stage 3

- Individual crazy 8's design
- Post-it voting
- Generate desirable, viable, feasible statements
- Overall Finalization of Stage 3

OpenProj outputs:

- Initiation Phase Board

DataFlow Diagrams

- Level 0
- Level 1
- Level 2

MNTSDEV Outputs

- UCD

PM Docs Chapter 2

- Scope



THANK YOU!

