

Business Rules and ERD

List down the business rules of the process you intend to develop as a system. Based on the business rules, draw the entity relationship diagram.

Output:

Business rules

Entity Relationship Diagram (EDM-Enterprise Data Model, PDM-Project Data Model)

Narrative report of what you have accomplished (with photos).

NOTE:

- One output per group.
- Follow the filename format below.
- Download this form and insert your output (do not delete the activity instructions just add new page for your output).
- List down the names of all the group members following this format:
Last Name, First Name Middle Initial.
- Output should be converted to PDF.

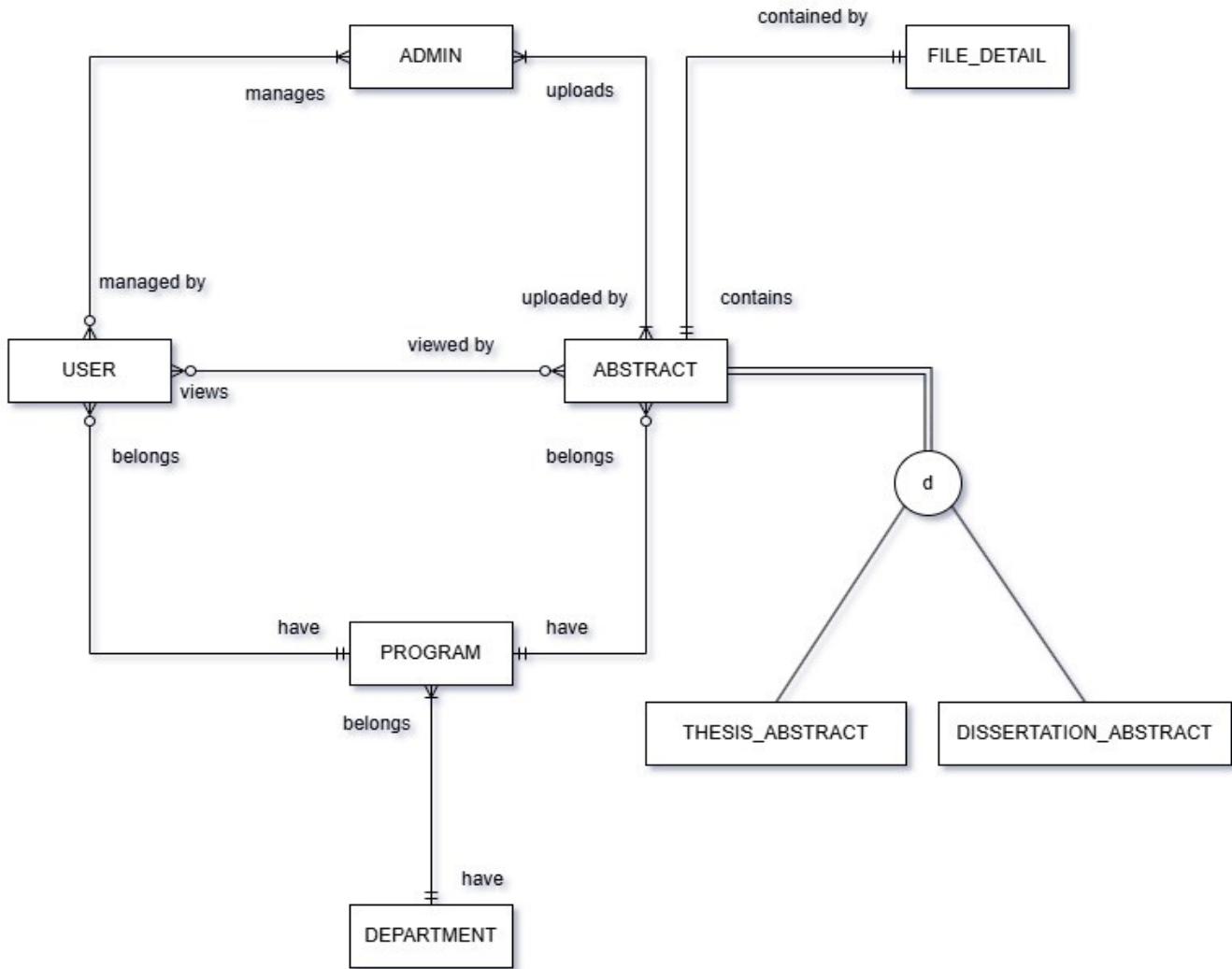
Filename format: **CourseCode-CourseYearSection-ActivityName-GroupNumber**

Example: **CC5-BSCS2A-BRandERD-PROJECT-GROUP1**

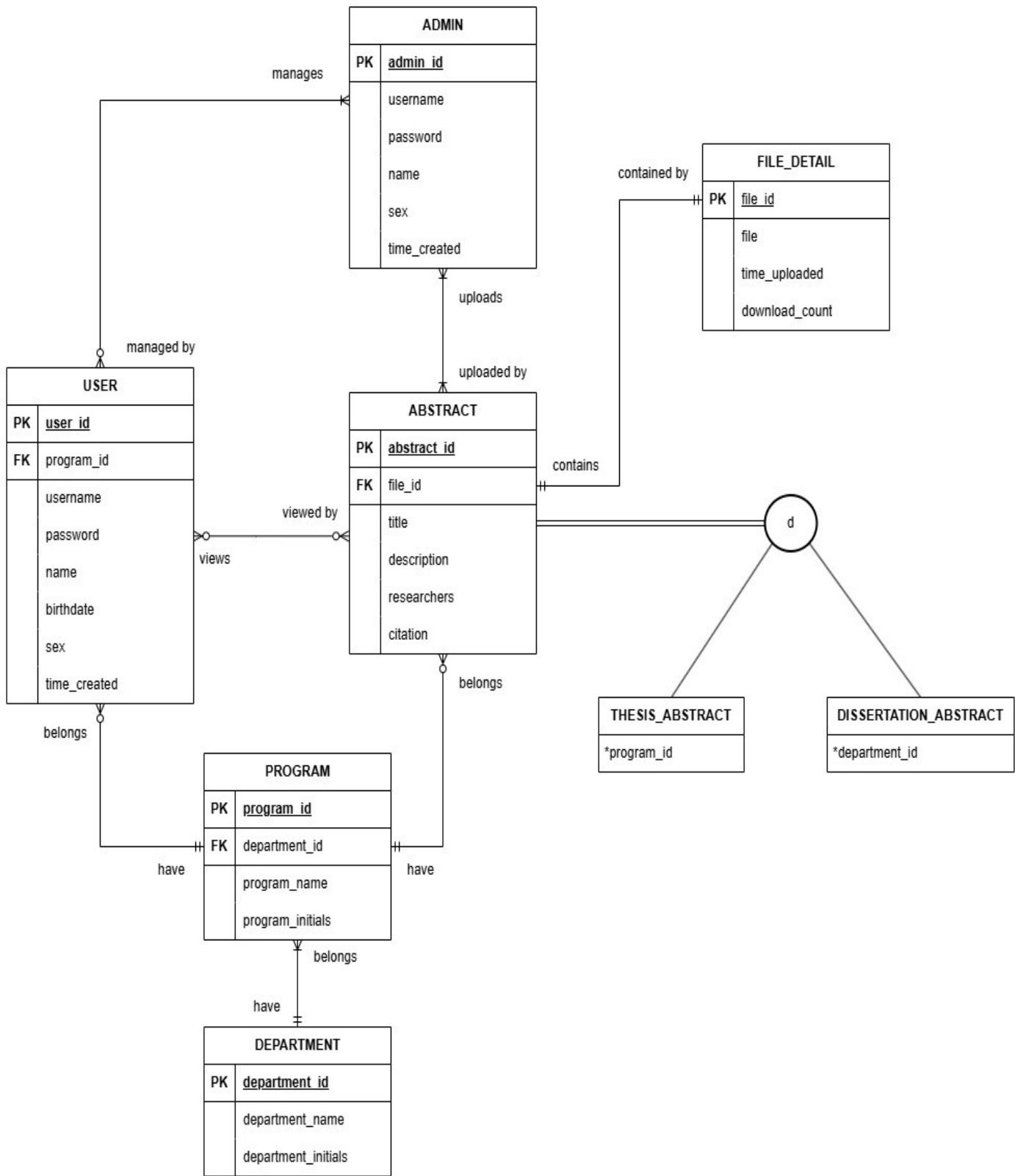
Business Rules for Project TheMaS

- An ADMIN (admin_id, name, password, sex, time_created) might manage many USER. However, a USER (name, birthdate, user_id, password, sex, program_id, time_created) must be managed by at least one or many ADMIN.
- An ADMIN must upload at least one or many ABSTRACT (abstract_id, citation, description, file_id, researcher, title). Also, an ABSTRACT must be uploaded by at least one or many ADMIN.
- A USER must belong to one and only one PROGRAM (program_id, department_id, program_initials, program_name). However, a PROGRAM might have many USER.
- A USER might view many ABSTRACT. Also, an ABSTRACT might be viewed by many USER.
- An ABSTRACT belongs to one and only one PROGRAM. However, a PROGRAM, might have many ABSTRACT.
- An ABSTRACT must contain one and only one FILE_DETAIL (file_id, download_count, file (longblob), time_uploaded). Also, a FILE_DETAIL must be contained by one and only one ABSTRACT
- A PROGRAM must belong to one and only one DEPARTMENT (department_id, department_name, department_initials). However, a DEPARTMENT have at least one or many PROGRAM.
- An ABSTRACT must be a THESIS_ABSTRACT (abstract_id, program_id) or a DISSERTATION_ABSTRACT (abstract_id, department_id).
- A THESIS_ABSTRACT can never be a DISSERTATION_ABSTRACT. Also, a DISSERTATION_ABSTRACT can never be a THESIS_ABSTRACT.

Enterprise Data Model



Project Data Model



Entities Description:

ADMIN- A person who manages and oversees the system, including user accounts, database records, and overall platform functionality.

USER- Individuals who interact with the site.

PROGRAM- an academic course or field of study.

ABSTRACT- A summary of a research study, providing a brief overview of its objectives, methods, and findings.

DEPARTMENT- A division within an academic institution that oversees specific fields of study.

FILE_DETAIL- information about uploaded documents, such as the file itself and time_uploaded.

THESIS_ABSTRACT- A brief summary of a thesis. Usually written for master's degree or undergraduate research.

DISSERTATION_ABSTRACT- A concise summary of a doctoral dissertation, outlining the key aspects of research.

Narrative Report

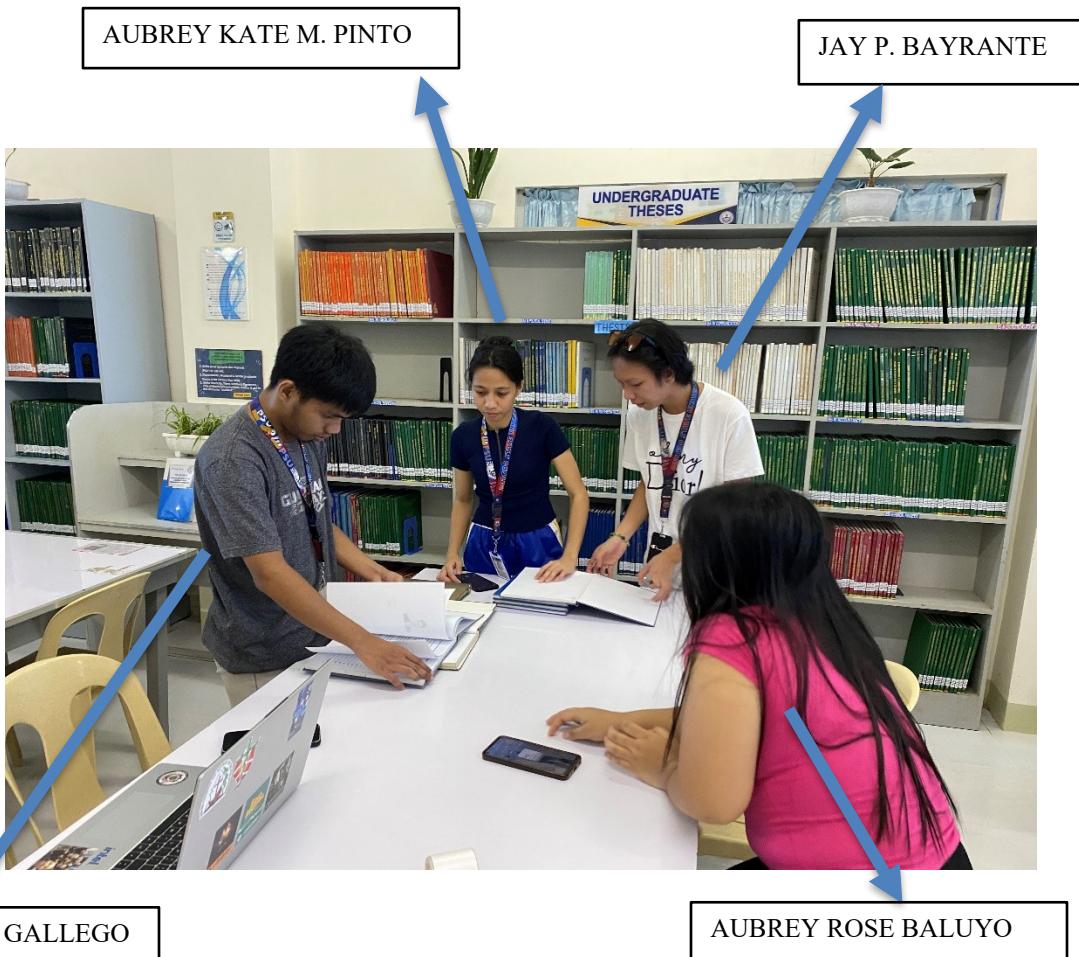
February 13, 2025

On February 13, 2025, our group continued working on our project creating a database system for the thesis in the library. To work together efficiently, we decided to meet at the library. Before starting, we asked for permission from the librarian, Miss Charmaine Visitacion, to take photos and gather information for our database. Once we received approval, we began working on our assigned tasks.

Under the leadership of James Ryan Gallego, our group focused on developing the business rules, the Project Data Model (PDM), and the Enterprise Data Model (EDM). With James's guidance, we successfully created both models, ensuring our database structure was well-organized and aligned with our goals.

We also started collecting thesis abstracts and titles for the database. Since we only needed the abstract and title, we took pictures of each thesis to gather the necessary information.

Our time in the library was productive, and we made good progress in structuring our database system. Moving forward, we continue refining our models and adding the collected data to build an efficient and functional thesis database system for the library.



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MAHOMETANO

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February 17, 2025

On February 17, 2025 we had our consultation with our instructor to assess the progress of our system. During the review, our instructor carefully examined the work we had done and provided us with valuable feedback. She gave us suggestions on areas where we could improve and advised us to make any applicable changes related to the lesson we had recently discussed in class. These changes were meant to help enhance our system and make it more effective.

After the consultation, our group gathered once again to revise and improve our project according to our instructor's recommendations. However, as we were about to start making the changes when we realized that it was time for our next class. Since we didn't have enough time to properly make the revisions, we decided to postpone the changes and plan to continue working on the project during our next meeting. This decision allowed us to take our time with the revisions, carefully implementing the suggested changes to ensure the system meets the requirements effectively. By giving ourselves more time, we could improve our project with careful attention to detail, ensuring it would be more effective and aligned with the requirements.



KIMBERLY
GUEVARRA

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February 19, 2025

On February 19, 2025, our group continued working on our project. As in previous meetings, we gathered at the library since it is the client and the primary source of the information, we need for the database system that we are developing. Before starting our tasks, we first asked for permission from the library staff to collect the necessary information for our project. After receiving approval, we divided up the tasks and began working on our assigned roles. Each member had a specific responsibility.

Our main task for the day was gathering information from various theses, including undergraduate, master's, and doctoral theses. We carefully documented the titles and abstracts, making sure that each piece of information was accurately recorded for the database. Once we had gathered enough data, we met to discuss our next steps. We planned how to integrate the collected information into our system.

After that, we decided to meet again in our next meeting to further refine the project, organize the data, and ensure everything was properly structured in the database. This step-by-step approach will help us create a well-organized and functional thesis abstract database that will be useful for future reference.

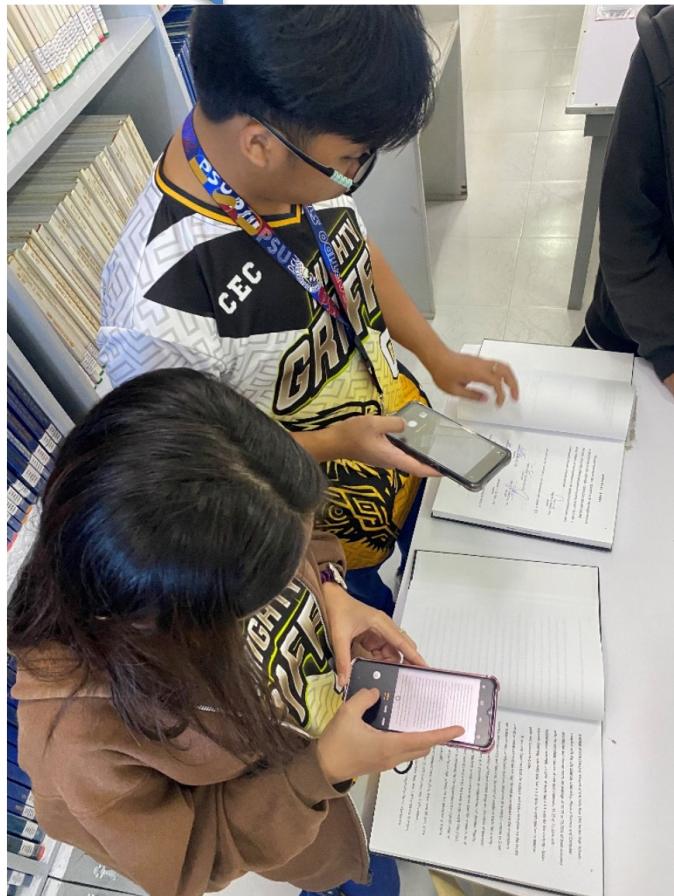


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March 03, 2025



CHRIS VINCENT
PAYTE



On March 3, 2025, we continued working on our group project, the Thesis Management System. First, we presented our progress to our instructor, focusing on the database we had created. We had her review our business rules and check the website we had already developed. After the review, we tested the website for errors or necessary modifications. Fortunately, while some minor issues needed fixing, the overall system was functioning well. Next, our instructor requested a prototype of our database system. Since the admin side was already integrated into the website, we focused on developing a separate user interface for the users. Our goal was to ensure that both administrators and users had a functional and efficient system with which to interact.



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"This is our group collaborating to develop and refine a website, ensuring functionality and fixing any errors."

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March 04, 2025

On March 4, our group continued working on the prototype and addressing errors in the website. Each member was assigned specific tasks, ensuring that every aspect of the system was being developed efficiently. We focused on refining the user interface, improving functionality, and making necessary adjustments based on our previous testing. With the great leadership of our group leader, we are now nearly finished with our project and are preparing for the next stages.



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Course/Year/Section: BSCS 2A

Subject Code: CC5