



University of Caloocan City – North Campus
Biglang Awa St. Grace Park East. Caloocan City
Computer Studies Department



Thesis/Capstone Proposal No. 1

Project Title: University of Caloocan City - Computer Studies Department Research Studies and Development Repository Avenue with AI-Powered Plagiarism Detector for Document Integrity

Description:

This project will create a web-based repository for research and development outputs from the University of Caloocan City's Computer Studies Department. The platform will include an AI-powered plagiarism checker to uphold academic integrity.

General Objective:

To develop a web-based platform that serves as a centralized repository for research studies and developments of the University of Caloocan City - Computer Studies Department, equipped with an AI-powered plagiarism detector to uphold academic integrity.

Specific Objectives:

- To create a user-friendly interface for efficient uploading, searching, and viewing of research materials.
- To implement an AI-powered plagiarism detection system to identify similarities between submitted research and existing works.
- To ensure data privacy through appropriate measures.



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- To implement a process for reviewing Projects to ensure that the projects are correct.
- To enable users to categorize and filter research materials for easier access and organization.
- To implement access control features that limit student access to certain sections of the thesis documents based on user roles and permissions.
- To generate reports about the most used technology that researchers used.

Scope:

- The project will focus on creating a web application accessible to professors, students, and researchers of the University of Caloocan City - Computer Studies Department.
- The repository will include research papers, videos & images and project/system files etc.
- The plagiarism detection system will cover text-based submissions and generate a report showing similarity percentages.
- The platform will include an access control system that allows only authorized users (e.g., professors/advisors, department head, admin) to view full thesis documents, while students can access limited sections, such as IMRAD.
- The repository generate reports about the most used technology that researchers used.
- The platform will have a process for reviewing Projects to ensure that the projects are correct.



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Limitations:

- The scope will be limited to the Computer Studies Department of University of Caloocan City.
- The AI-powered plagiarism detector may have limitations in detecting complex forms of plagiarism, such as paraphrasing or mosaic plagiarism.
- The uploading of thesis projects are exclusive only in Computer Studies Department.
- The AI-powered plagiarism detector may not support non-text-based content, such as images, videos, or code.

IPO – INPUT, PROCESS, OUTPUT

INPUT	PROCESS	OUTPUT
<ul style="list-style-type: none">• Student Information• Professor Information• Department Head Information• Administrator Information• Thesis Details and Files• System Inputs	<ul style="list-style-type: none">• Registration• Publishing of Thesis Projects• Publish/Unpublished Thesis• Student Management• Professor Management• Admin Management• Department Head	<ul style="list-style-type: none">• Thesis Posts• Thesis Preview• Reports• Repohub



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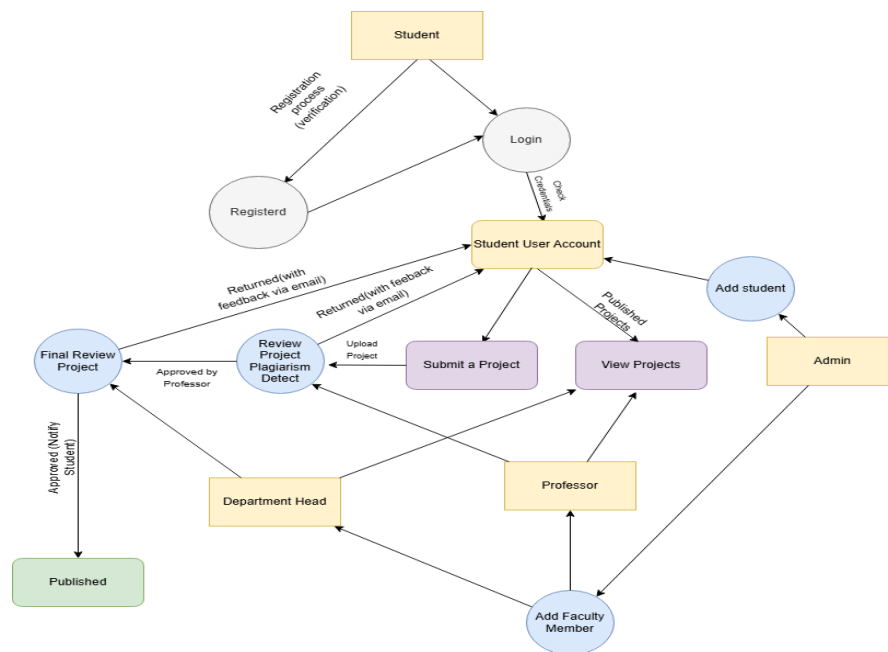
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	Management	
	<ul style="list-style-type: none">Roles and Permission	

Data Flow Diagram





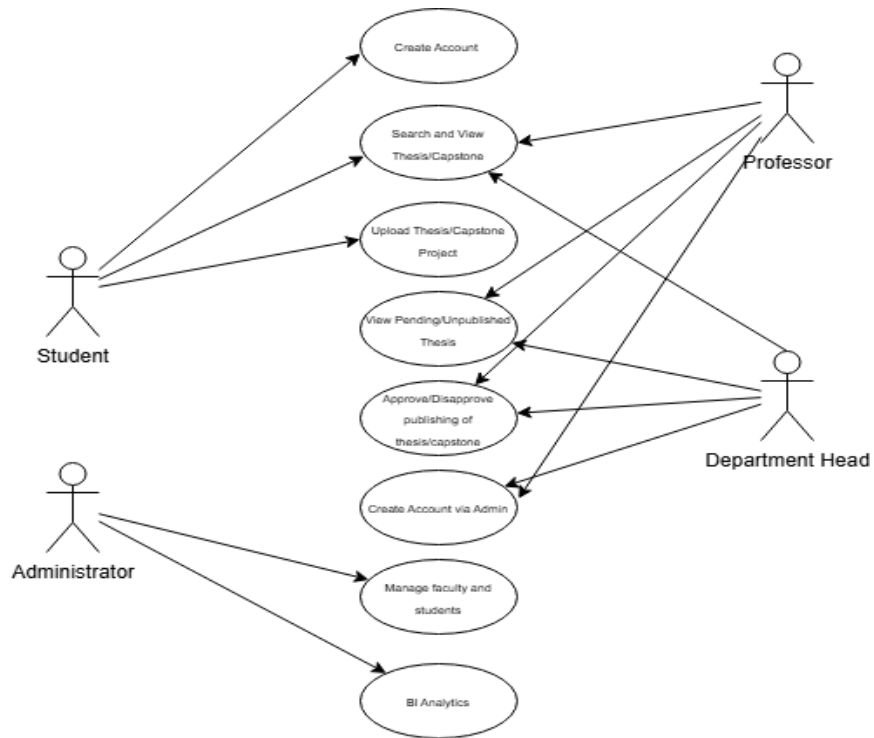
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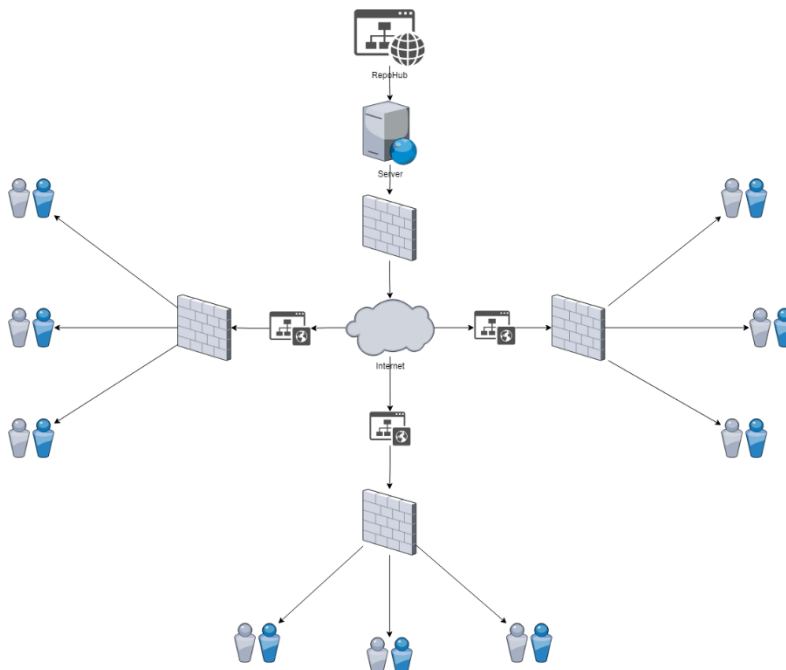
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Use Case



Network Diagram

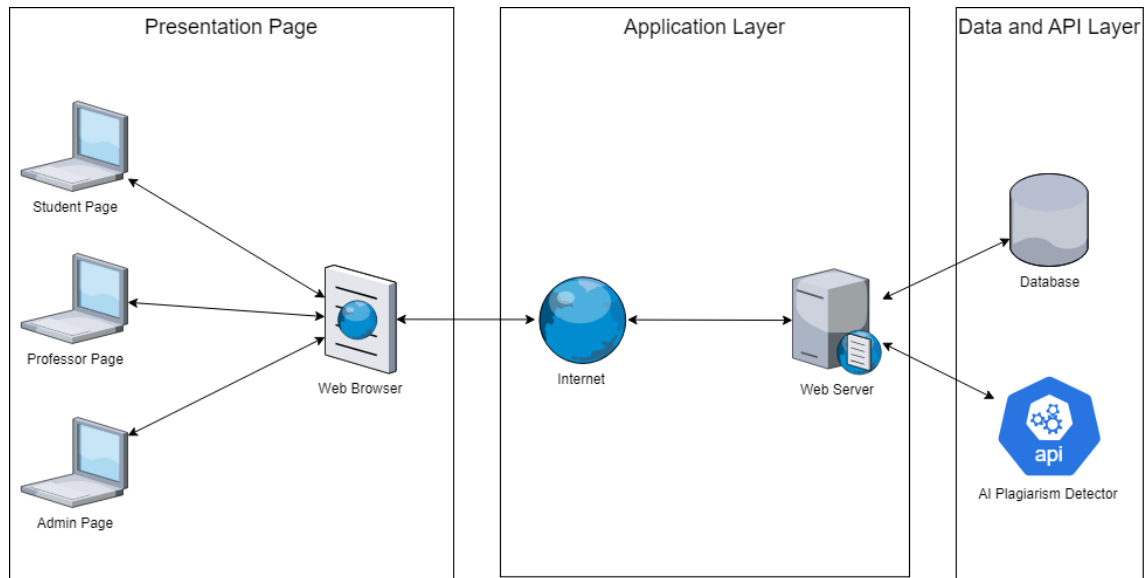




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Application Structure Diagram



MEMBERS:

Bucatcat, Marian Marsha

Egrubay, Mary Jane

Magno, Ciejhay T.

Navales, Vince Neill

Approved by: VICENTE TABACOLDE