UE21CS351A
Database Management System

MINI PROJECT USER REQUIREMENT SPECIFICATION
(SRS)

Team :

N Digvijay – PES2UG21CS310
Nishanth D'Mello – PES2UG21CS343

Introduction

Purpose of the Project

The primary objective of the Research Paper Repository is to centralize, organize, and facilitate easy access to academic research papers for students, educators, researchers, and professionals. By creating a robust digital platform, the project aims to foster knowledge-sharing, accelerate research innovation, and simplify the process of acquiring academic materials.

Scope of the Project

The Research Paper Repository will not only store research papers but will also offer functionalities like advanced search capabilities, user profiling, and collaboration tools. The project aims to cater to educational institutions, independent researchers, and corporate research departments. Initially, the focus will be on English-language papers, but there are plans for multilingual expansion in the future.

Project Description

Project Review

Over the past decade, the demand for a centralized digital platform for research papers has surged. While various repositories exist, many are segmented by disciplines, lack user-friendly interfaces, or are restricted by paywalls. This project aims to bridge these gaps by offering an open, comprehensive, and intuitive platform.

Project Functionalities

• Store research paper data: The database should be able to store all of the data related to research papers, such as title, abstract, authors, keywords, topics, and the full paper file.

• Retrieve research paper data: The database should be able to retrieve research paper data quickly and efficiently, based on a variety of criteria such as title, author, keyword, topic, and publication date.

• Update research paper data: The database should allow users to update research paper data, such as adding new keywords or changing the status of the paper.

• Delete research paper data: The database should allow users to delete research paper data, if necessary.

• Search and filter research paper data: The database should allow users to search and filter research paper data using a variety of criteria.

System Features and Function Requirements

System Feature 1 : Collaboration and Researcher Profiles

Researchers can create profiles within the system, showcasing their research interests, publications, and affiliations. The system encourages collaboration by suggesting potential collaborators based on research areas and interests. Researchers can connect with each other and share information.

Entities - Researcher, Research Paper

System Feature 2 : Conference Management

Conference organizers can create and manage conferences within the system. They can set up conference-specific details such as dates, locations, themes, and submission deadlines. Organizers can also track the status of submitted research papers.
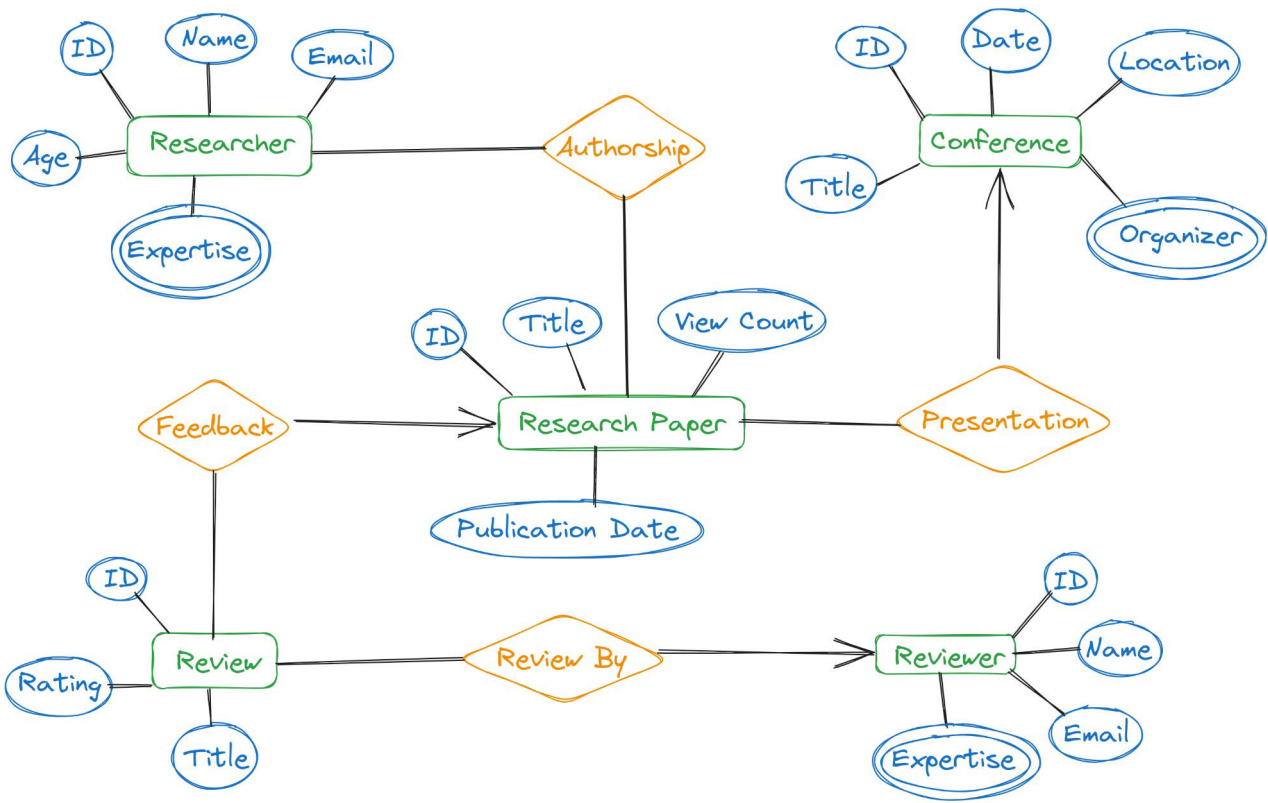
Entities - Conference, Research Paper, Conference Organizer

System Feature 3: Peer Review Process

The system facilitates a peer review process for submitted research papers. It assigns reviewers to papers, manages the review workflow, and allows reviewers to provide feedback and recommendations. Authors can track the review status of their papers.

Entities - Review, Reviewer, Research Paper

Entity Relationship Diagram

Relational Schema

Researchers

<u>ID</u>, Name, Email, Expertise, Age

Research Papers

<u>ID</u>, Title, Publication Date, Citation Count, Researchers, Conference

Conferences

<u>ID</u>, Title, Date, Location, Organiser

Reviews

<u>ID</u>, Reviewer, Title, Paper ID, Rating

Reviewers

<u>ID</u>, Name, Email, Expertise