



RESEARCH PAPER MANAGEMENT SYSTEM

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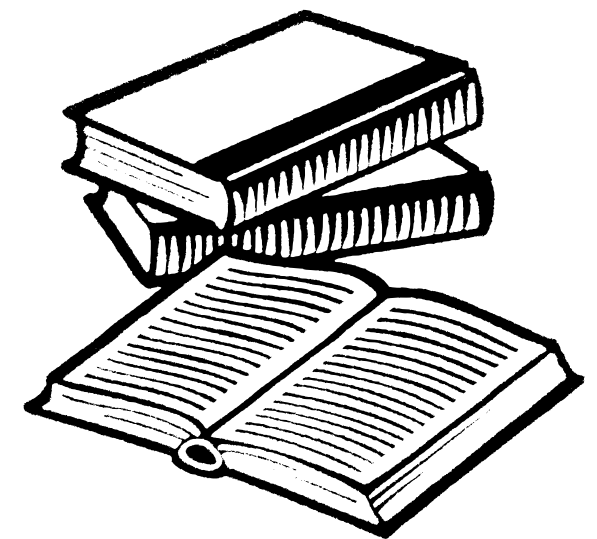
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Introduction

- Aims to ease the process of uploading and managing research papers for researchers and academics
- Address the challenges faced during the research paper submission process
- An efficient and streamlined approach to storing and retrieving research papers while automating the extraction of important metadata



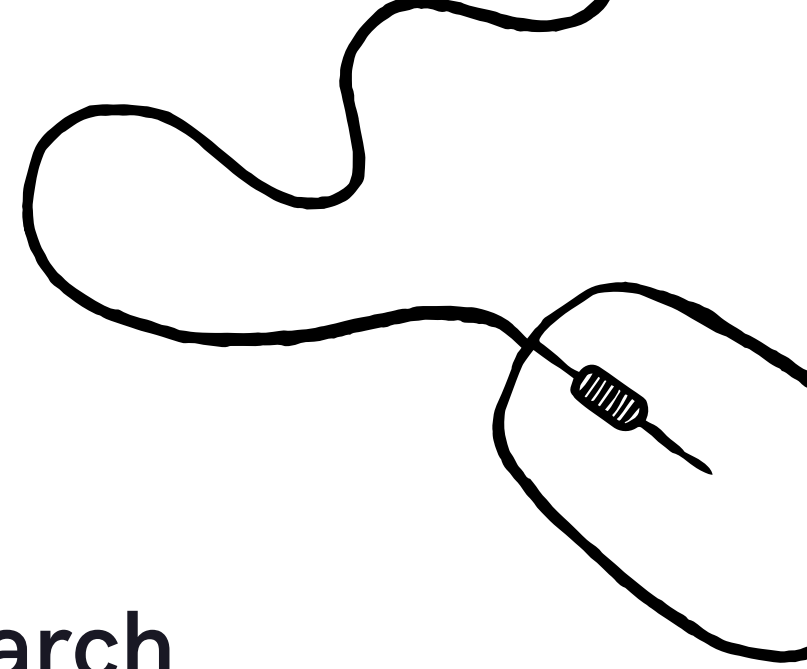
Problem Statement?



- Uploading and managing research papers can be a time-consuming and error-prone task.
- Traditional methods for uploading and managing research papers are prone to human errors and require a lot of work.
- Locating specific research papers from a large collection becomes difficult without an efficient search system.
- Reduce the efficiency and productivity of researchers and academics



SOLUTION



Automated metadata extraction

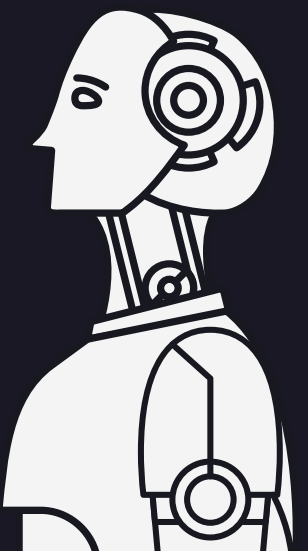
- to ease the uploading process by automatically extracting and store metadata
 - collect data
 - extract metadata using libraries
 - Validate and Refine Extracted Metadata

Streamlined search and organization

- easily search and retrieve their papers based on specific criteria such as title, authors, keywords, or publication date

TECHNOLOGIES USED

- WEB DEVELOPMENT TECHNOLOGIES
 - Frontend: Streamlit
 - Database: MySQL server
 - Backend: Streamlit
 - Development Environment: VScode
- LIBRARIES FOR THE ALGORITHM
 - PyPDF2
 - BeautifulSoup

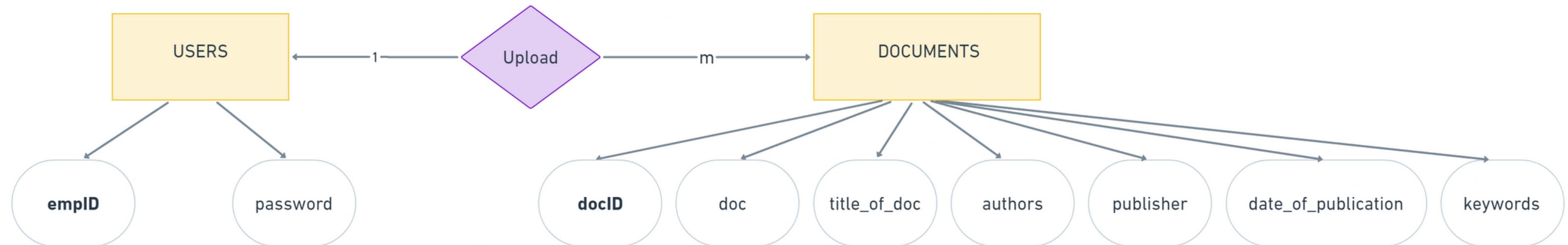


IMPLEMENTATION

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1. Database

MySQL server was used



ER diagram



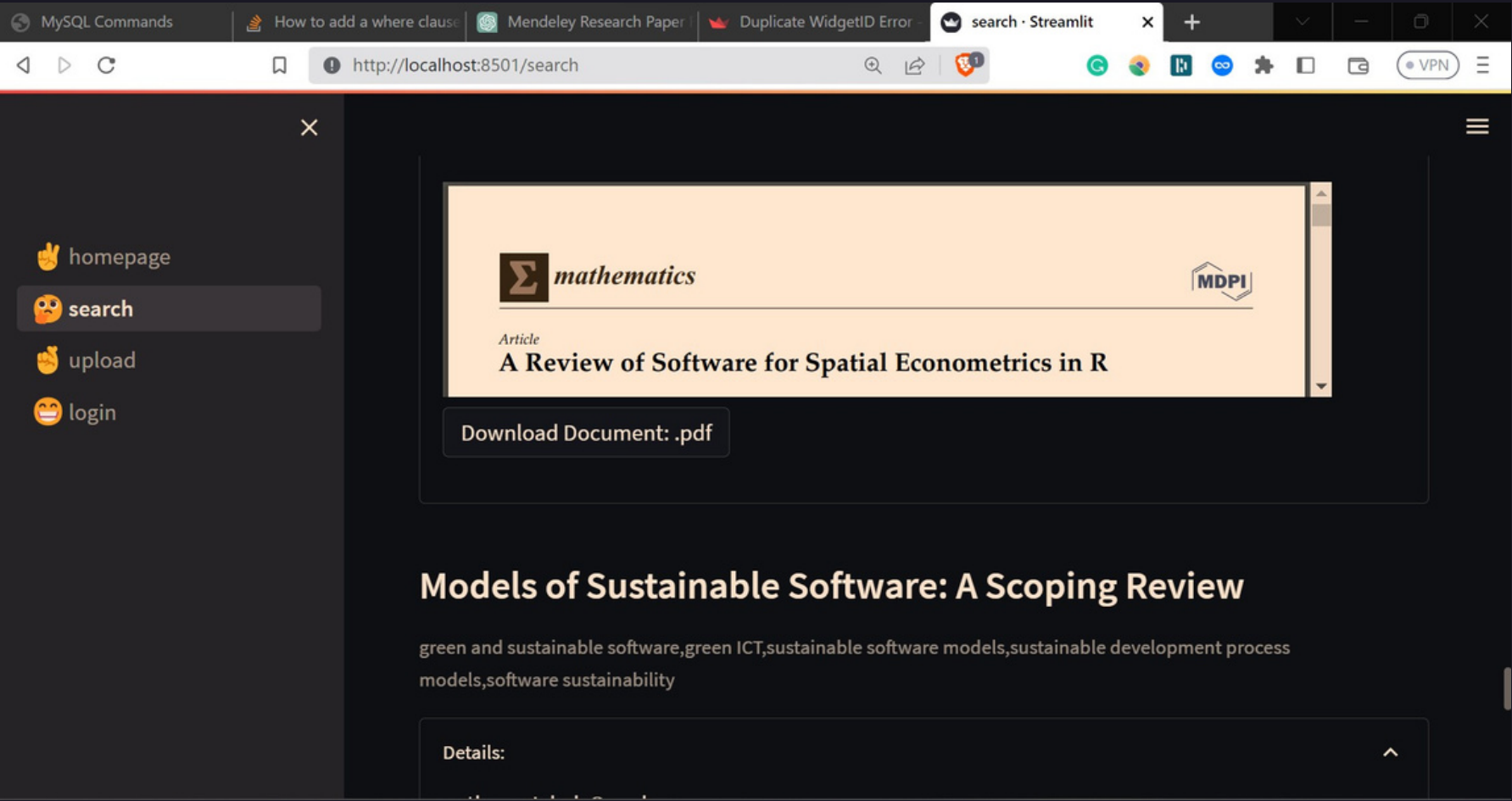
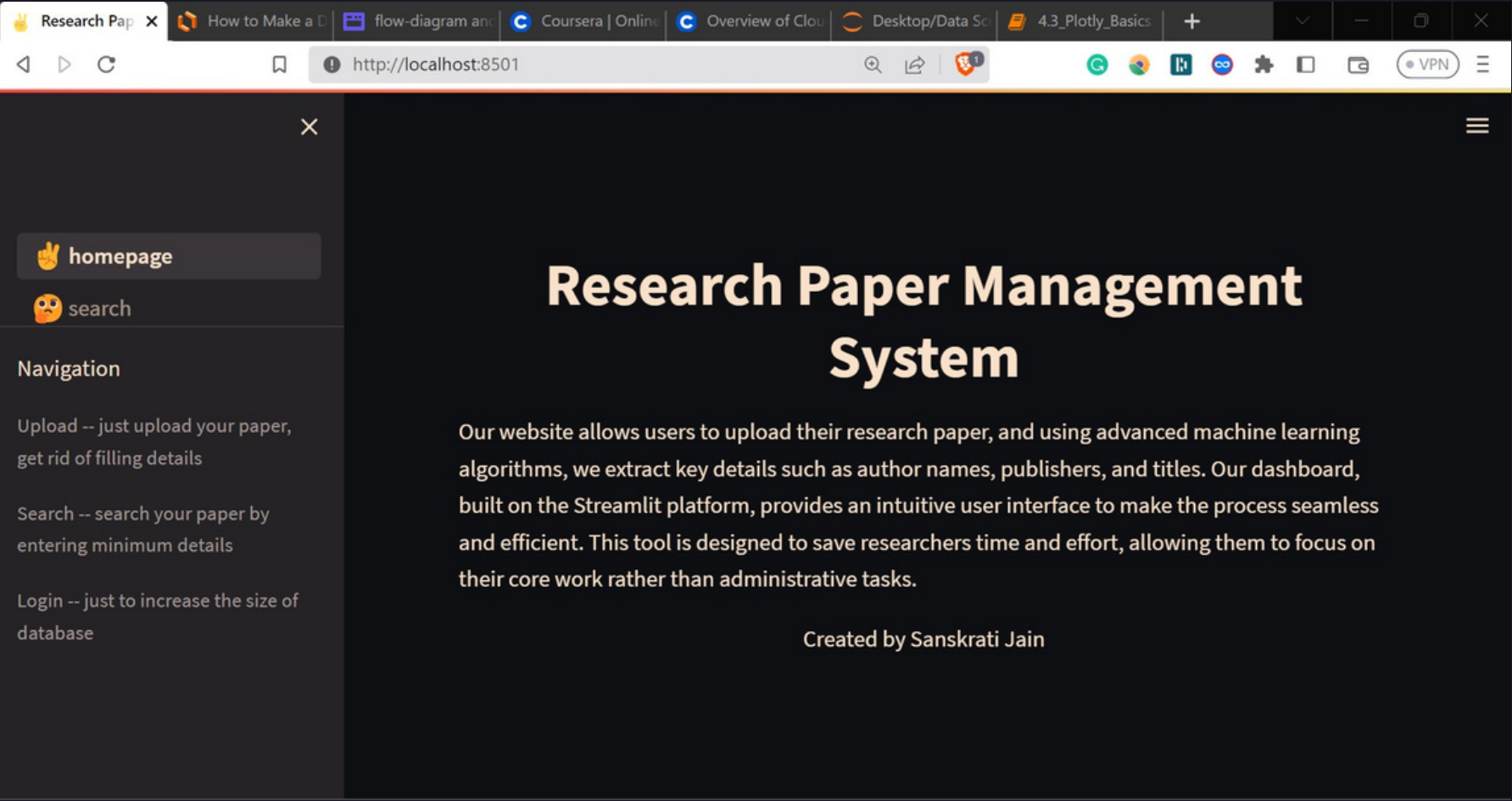
2. ALGORITHM DESIGN

- Used BeautifulSoup and PyPDF2 libraries
- Extracted the type of document, title of paper, authors, publishers, date_of_publication and keywords in that research paper

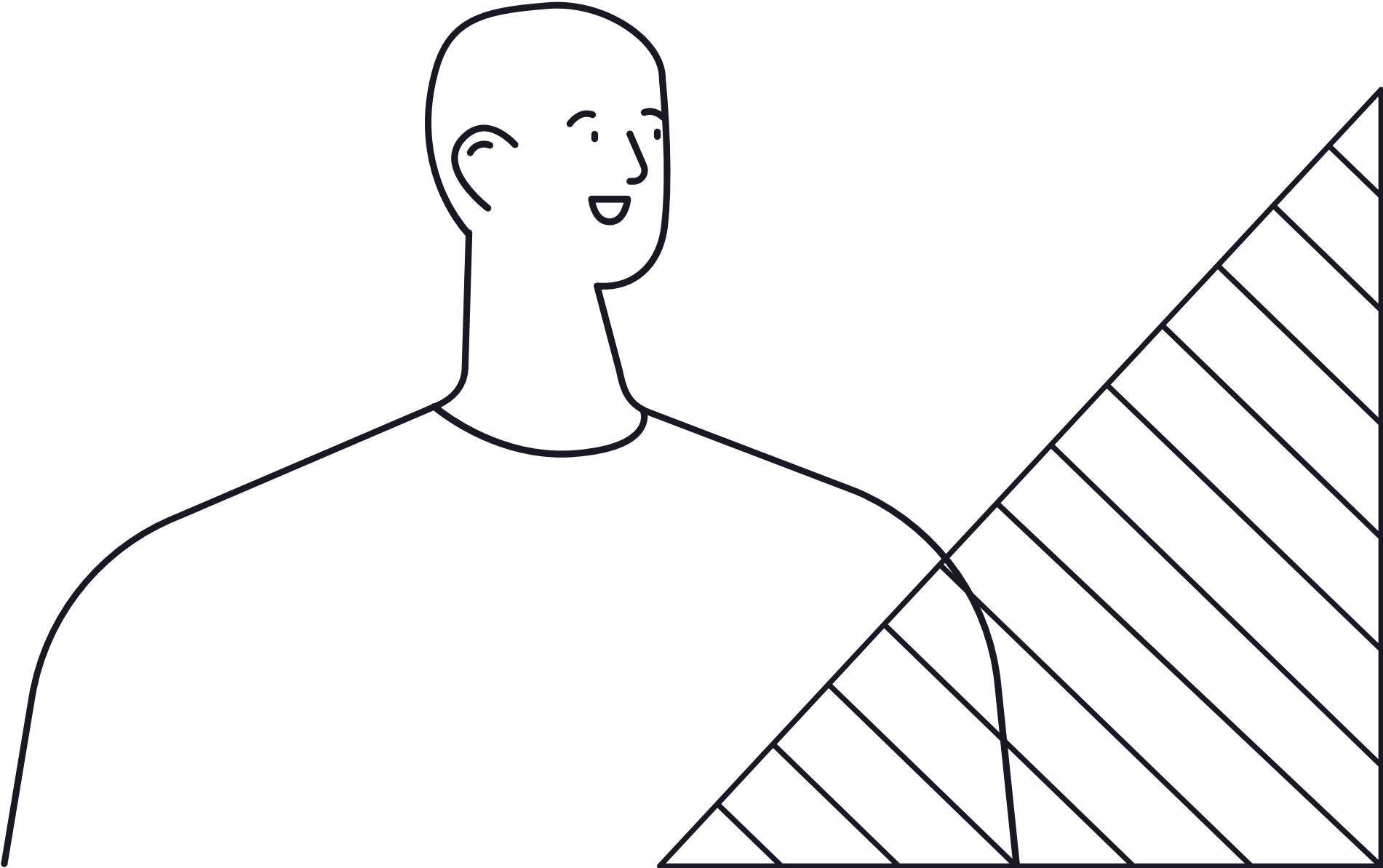
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Title: Automation software architectures in automated production systems: an industrial case study in the packaging machine industry  
Publisher: Springer  
Author: EvaMaria Neumann  
Keywords: Automation software architecture,IEC 611313,Design decisions,Automated Production Systems  
Date of Publication: May 14, 2022
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Title: Software Project Management Using Machine Learning Technique-A Review  
Publisher: LaTeX with hyperref  
Author: Mohammed Najah Mahdi, Mohd Hazli Mohamed Zabil, Abdul Rahim Ahmad, Roslan Ismail, Yunus Yusoff, Lim Kok Cheng, Muhammad Sufyi  
an Bin Mohd Azmi, Hayder Natiq, Hushalini Happala Naidu  
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Date of Publication: June 07, 2021
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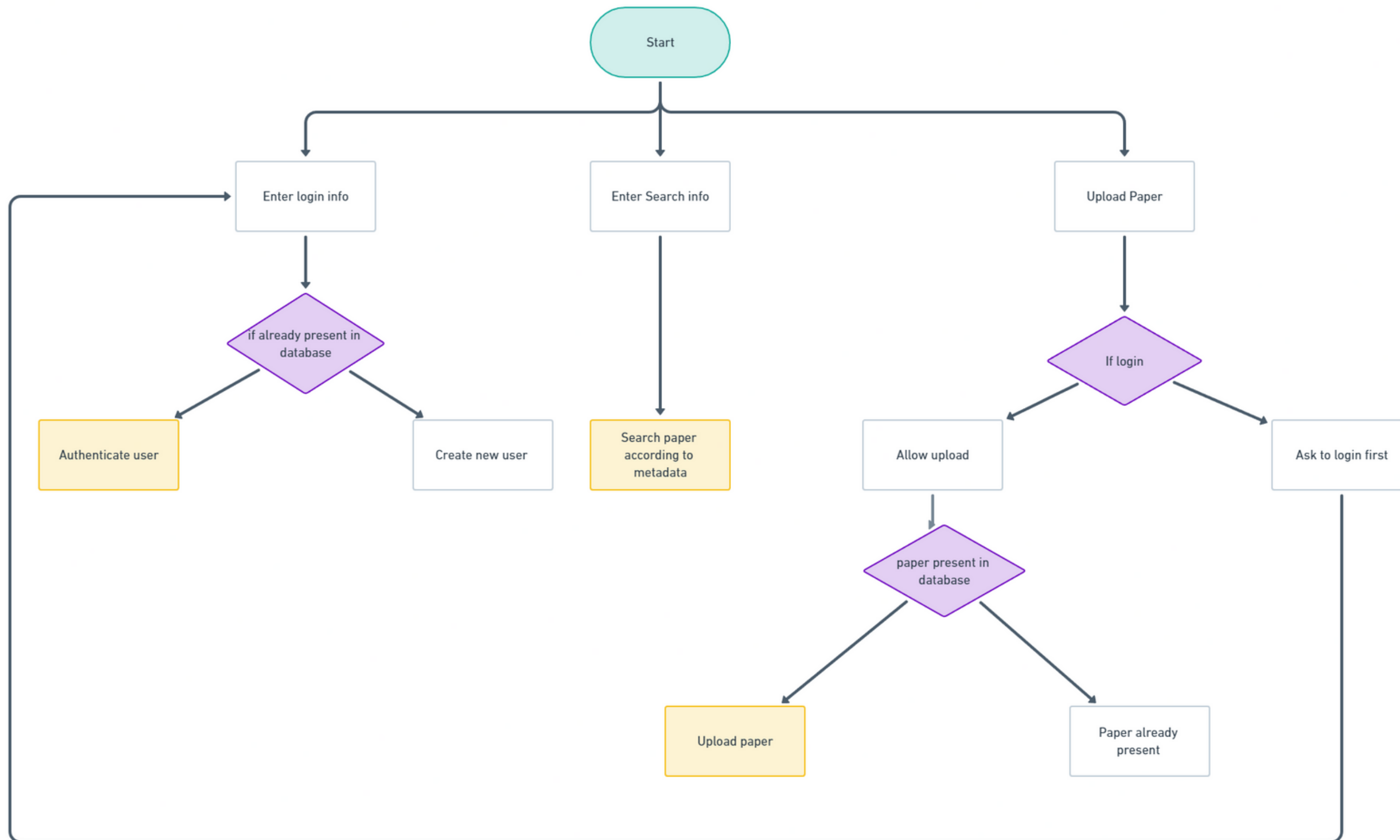
Connected to database for uploading



USER INTERFACE



User flow diagram



TESTING

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Extracting metadata from research papers based on different publishers

1.Elsevier	Successful
2.Acrobat PDFMaker 9.0 for Word	Successful
3.Arbortext Advanced Print Publisher 9.1.440/W Unicode	Successful
4.LaTeX with hyperref	Successful
5.Springer	Successful

Searching using different metadata using user input	Successful
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Uploading differnt research papers from user	Successful
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Login system using user input	Successful
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Demonstration

FUTURE ENHANCEMENT

- Enhanced Metadata Extraction Algorithm
- Document Organization
- Advanced Analytics and Recommendation Engine
- Collaboration and Communication Features

