Web Requirements Document

Project Information

Project Name	Certificate Withdrawal Management System
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1. Introduction

The Certificate Withdrawal Management System is a web-based solution integrated with our university portal, enabling students to seamlessly apply for their certificates. The system automates data retrieval and tracks application progress, ensuring efficient processing for both students and authorities.

2. Scope

The scope of Certificate Withdrawal Management System includes the following:

Feature 1	Students can apply for certificate withdrawal only by selecting the appropriate degree.
Feature 2	Automatic retrieval of student information and results from the database.
Feature 3	Submission of required files in PDF format and payment transaction ID.
Feature 4	Downloadable application form as a PDF.

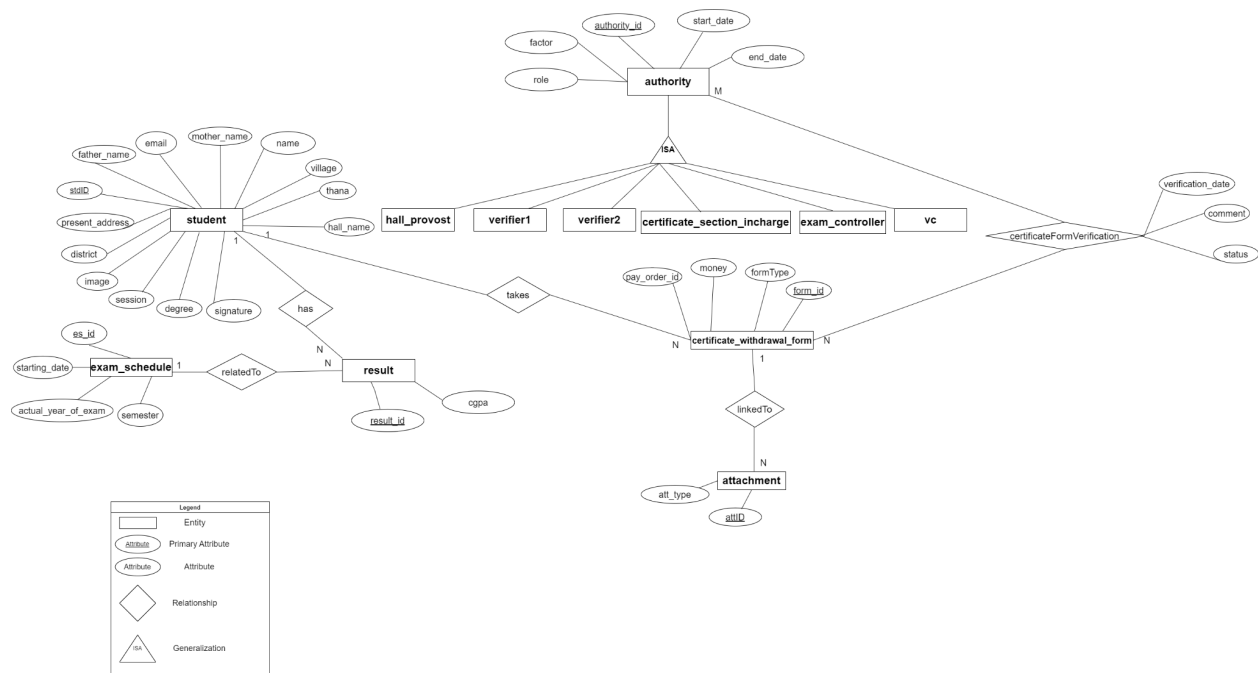|	
Feature 5	Customized user interface based on degree and certificate type.
Feature 6	Real-time application tracking with updates on certificate status.
Feature 7	Automatic transfer to the next authority for verification of the application.
Feature 8	Authorities can accept or reject applications with comments.
Feature 9	Disabled submit button for students who are not eligible to withdraw certificates.
Feature 10	Authorities can view student-submitted attachments.
Feature 11	Responsive design ensures seamless access and functionality across various devices (desktops, tablets, and mobile phones).

3. Requirements

We gathered our requirements by interviewing some of our stakeholders, including the first verifier of certificates and the certificate section in-charge. Additionally, we consulted two senior students to gain insights into the process, document flow, and necessary requirements. The primary requirements identified are as follows:

- Accurate retrieval and storage of student information, along with any submitted documents.
- A user-friendly interface that prevents confusion for both students and authorities.
- Ensuring the accuracy of information provided by students.
- Enabling students to track the progress of their application.
- Integration of an online payment system for fee submission.
- Offering an online PDF version of the application form to reduce the need for standing in line.
- Automating the verification process by the authorities.
- Informing students about the status of their certificate withdrawal eligibility.

We also collected a sample form to get acquainted with what information are needed in this process. We were prohibited by the certificate section in-charge to take any digital sign of any authority in this process as it is a crucial matter.

4. ER Diagram

authority_id, start_date, factor, role, end_date

authority M

ISA

email, mother_name, name, father_name, village, thana

stdID

present_address

student 1 hall_name | **hall_provost** | **verifier1** | **verifier2** | **certificate_section_incharge** | **exam_controller** | **vc**

district

image

session, degree, signature

has

takes

pay_order_id, money, formType, form_id

certificate_withdrawal_form N — N

certificateFormVerification — verification_date, comment, status

es_id

starting_date **exam_schedule** 1 relatedTo N N **result**

actual_year_of_exam, semester

result_id

cgpa

linkedTo 1

N

att_type **attachment** attID

Legend
- Entity
- _Attribute_ Primary Attribute
- Attribute Attribute
- ◇ Relationship
- △ ISA Generalization

5. Future Works

- Integrating payment gateways(mobile banking) to pay fees to apply for certificates.
- Integrating email after completion of verification.
- Adding all types of certificates for withdrawal via our website.

6. Collaboration

We collaborated with the teams Staff Management System, Result Processing System, and Student Management System.

7. Problems Faced

- Lack of correct data in the database.
- Communication gap with the Result Processing Team.
- Delay in server update.