Documentation

1. Introduction

Purpose

The purpose of this initiative is to develop a comprehensive fee portal tailored to the unique needs of IIT Indore. Intended for use by the institution's financial department and overseen by Dr. Abhishek Srivastava, the course coordinator, this project aims to streamline fee reconciliation processes. By outlining key requirements, features, and constraints, we seek to enhance administrative efficiency and provide a user-friendly experience for both students and staff.

Scope

Our project encompasses the development of a Fee Reconciliation System specifically tailored to meet the needs of IIT Indore. This system aims to modernize and simplify fee-related operations within the university, ensuring precise and streamlined management of student fees. The core objectives include automating fee collection procedures, furnishing real-time fee status updates for both students and administrators, generating comprehensive financial reports for analysis, and enhancing overall fee management efficiency. Furthermore, the system will seamlessly integrate with the existing student information system.

It's important to note that our system will not encompass functionalities related to course registration, academic grading, or student enrollment processes. Instead, its focus remains solely on facilitating fee-related activities. The primary users of this system will be the students and financial department personnel of IIT Indore.

2. General Description

Product Integration and Context

The Fee Reconciliation System is part of how things work at IIT Indore. It connects with the systems they already have for student info, money stuff, and verifying who's who. It's made to fit right in, making it easier for students and staff to use. And it's not meant to replace anything, just add a helpful tool for handling fees. By working alongside existing systems, it ensures a smooth transition and simplifies fee management processes for everyone involved.

Product Functions

Expanding on the functional requirements outlined in the SRS document, this section provides detailed scenarios and user stories to illustrate how the Fees Reconciliation System will be used in real-world situations. It incorporates user perspectives, preferences, and pain points to ensure that the system's functionalities are aligned with user needs and expectations.

General Constraints

In addition to technical constraints, such as integration challenges or testing complexities, this section considers broader organizational, regulatory, or environmental constraints that may impact the project's implementation or outcomes. It explores potential barriers to adoption, stakeholder resistance, or resource limitations that need to be addressed proactively to ensure project success.

Assumptions and Dependencies

Building upon the assumptions and dependencies outlined in the SRS document, this section explores the broader contextual factors and interdependencies that may influence the project's trajectory. It considers external factors, such as market trends, technological advancements, or regulatory changes, as well as internal factors, such as organizational culture, leadership support, or stakeholder engagement strategies.

3. Functional Requirements

Admin portal

1. Login

Input:

- Enter the admin ID and password.

Output:

- If the entered ID and password match, redirect to the admin dashboard. Otherwise, stay on the login page.

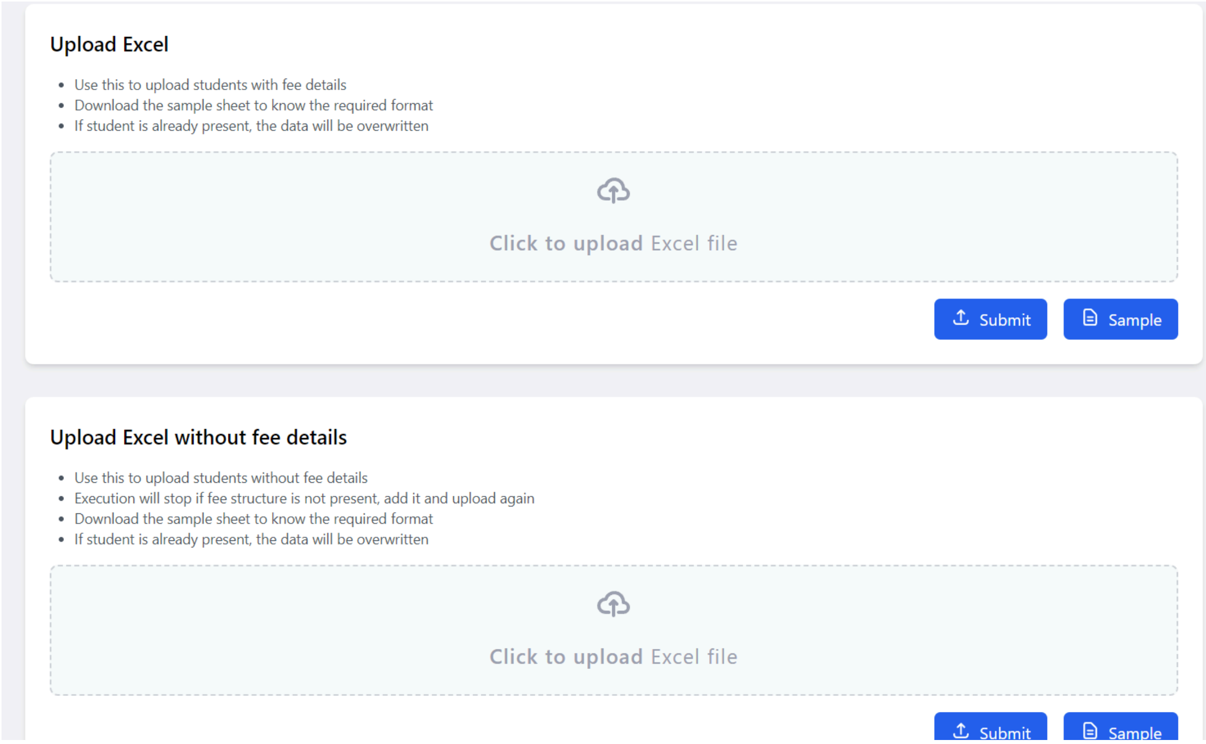
2. Upload New Students

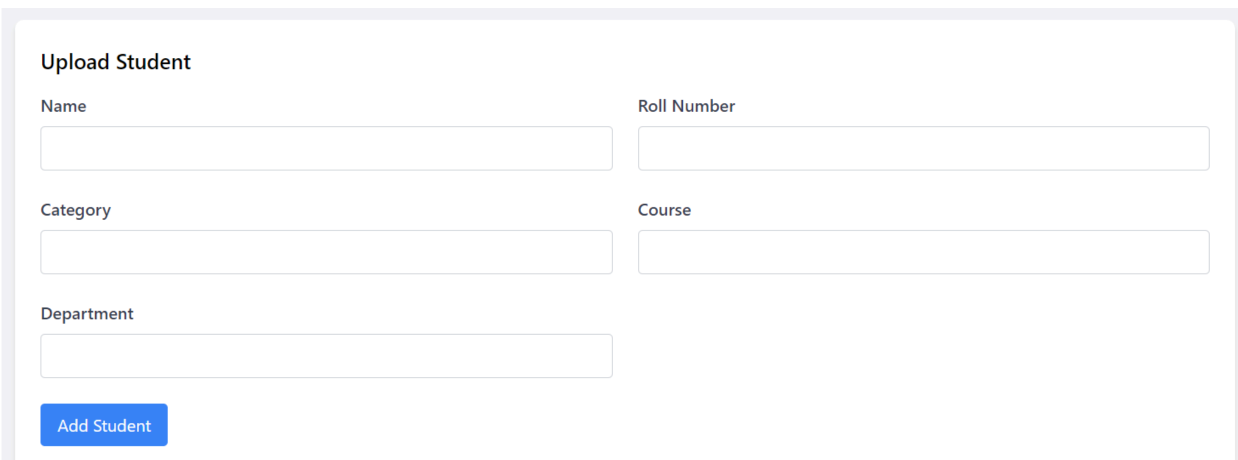
Input:

- There are four options for uploading new students:
    1. Upload an Excel file of students with fee details.
    2. Upload an Excel file of students without details; fees will be updated based on their course and category.
    3. Add a student by filling the upload form with fee details.
    4. Add a student by filling the upload form without fee details; the fee will be updated based on the student's course and category.

Output:

- New students will be added.





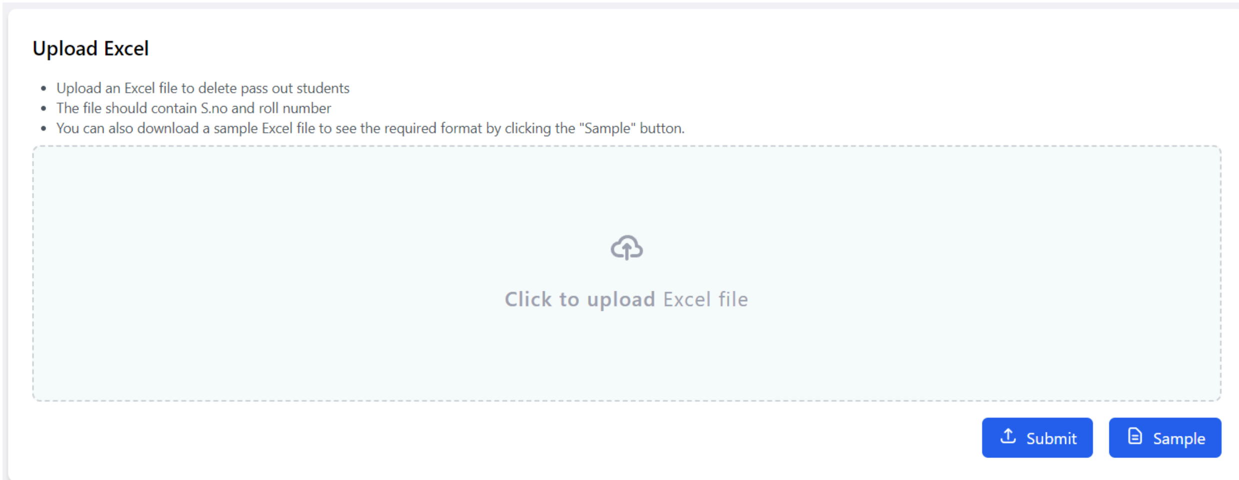
3. Delete Students

Input:

- Upload an Excel file containing the list of students to be deleted.

Output:

- The specified students will be deleted from the system.



4. Student List Filters

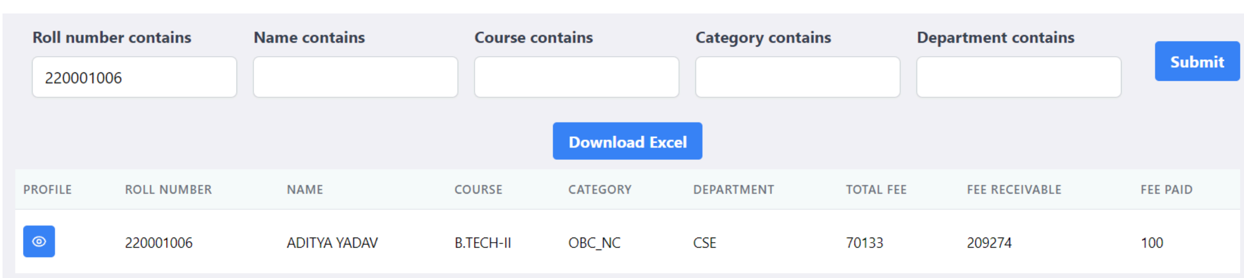
Input:

- Roll Number: Enter a specific roll number to filter and locate a particular student.
- Category: Select a category (e.g., GEN , SC, etc.) to filter students based on their category status.
- Course: Choose a course (e.g., B.Tech, PHD, etc.) to filter students enrolled in a specific course.
- Department: Specify a department (e.g., CSE, EE, etc.)to filter students belonging to a particular academic department.

By utilizing these input filters, users can refine their search and locate students more efficiently based on specific criteria such as roll number, category, course, and department.

Output:

- Display a list of students that match the specified filter criteria.



5. Update Student Profile

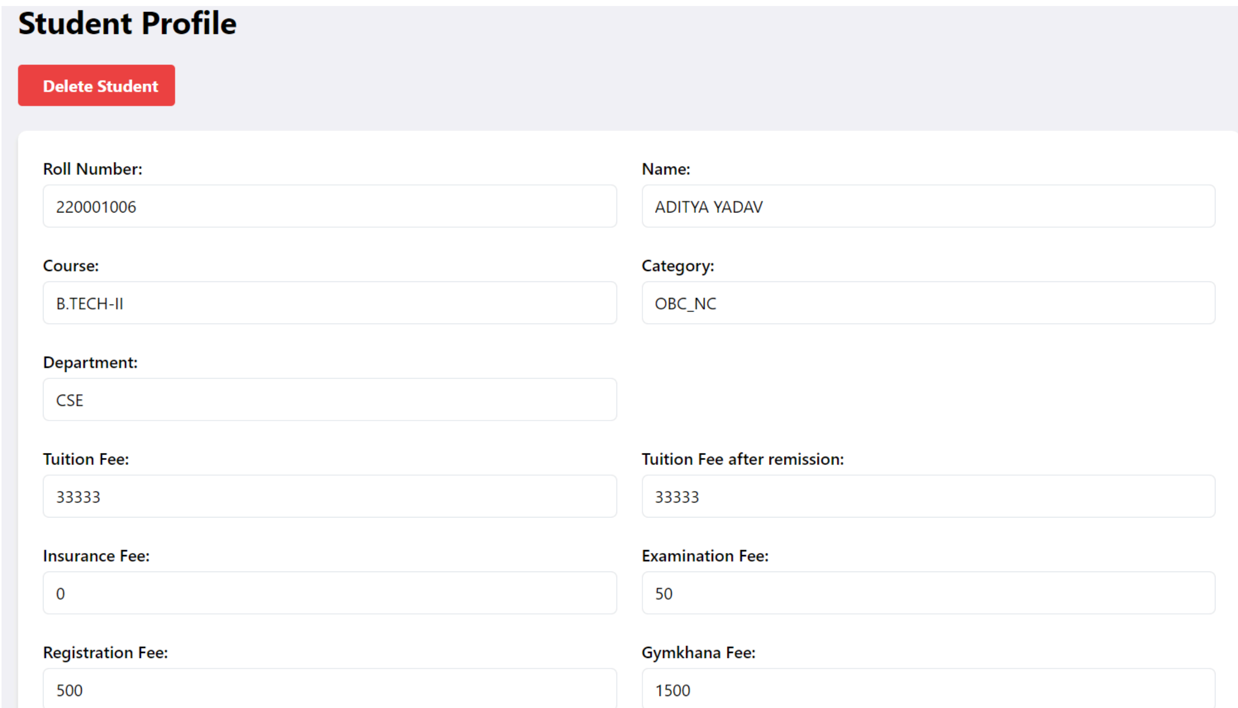
Input:

- Access the student's profile page.
- Update the fee details for the student, including:

- Tuition fees.
- Any additional fees.
- Fee paid.

Output:

- Upon submission of the updated fee details:
    - Update the student's profile with the new fee information.
    - Display a confirmation message indicating that the fee details update was successful.



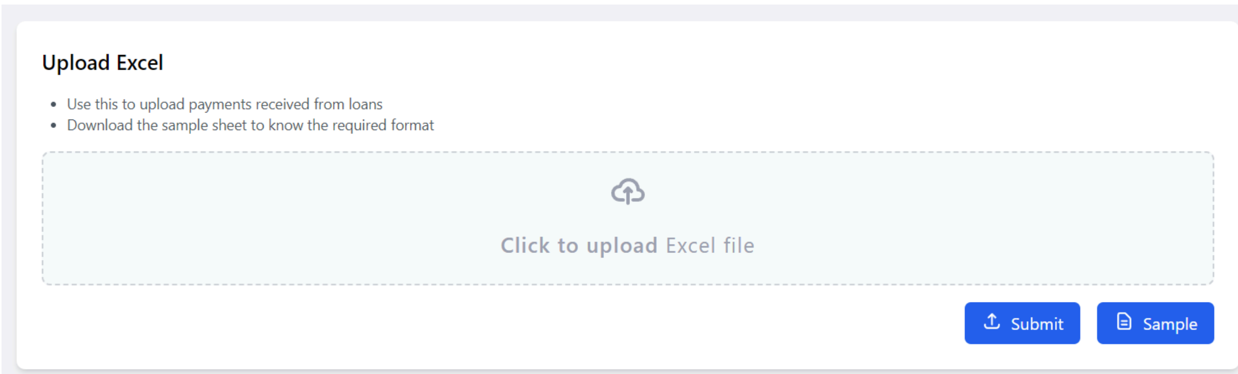
6. Bank Loan

Input:

- Upload an Excel file containing the list of students who have received a bank loan, along with the following details for each student:
    - Amount received from the loan.
    - UTR (Unique Transaction Reference) number associated with the transaction.
    - Mode of loan disbursement (e.g., NEFT, RTGS, Cheque, etc.).
    - Bank type (e.g., HDFC Bank, ICICI Bank, State Bank of India, etc.).

Output:

- Process the uploaded file to update the system with the loan information for each student, including the amount received, UTR number, mode of disbursement, and bank type.
- Provide confirmation of successful data upload.



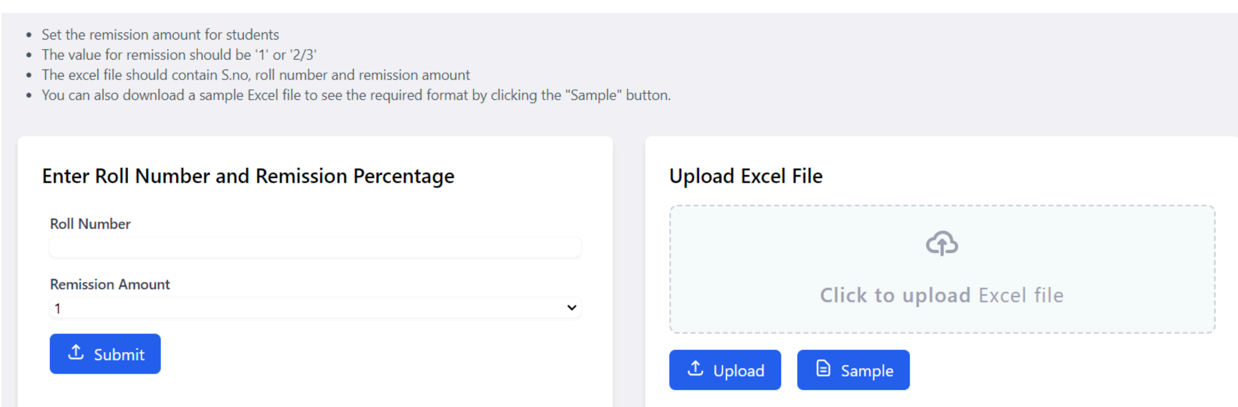
7. Set Remission Amount for Students

Input:

- Upload an Excel file containing the following details for each student:
    - Serial number (S.no).
    - Roll number.
    - Remission amount:
        - Should be specified as either '1' (indicating full remission) or '2/3' (indicating two-thirds remission, equivalent to 66.67% of the total fee).

Output:

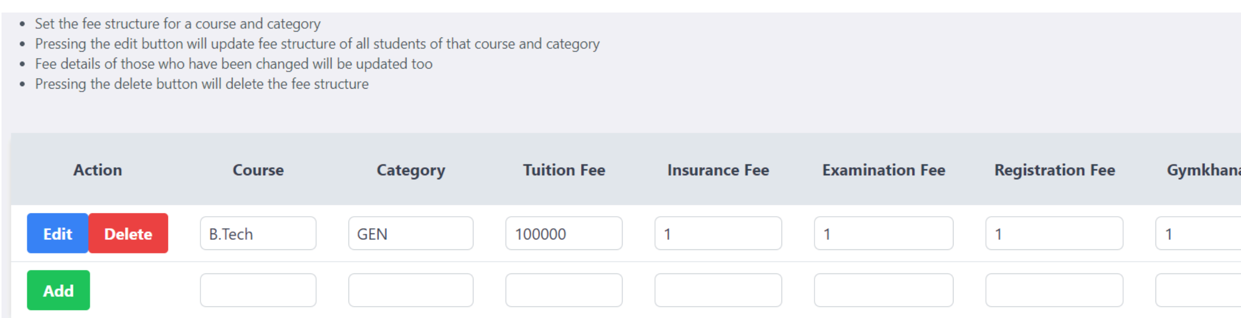
- Process the uploaded file to set the remission amount for each student according to the specified percentage of the total fee.
- Provide confirmation of successful remission amount setting.



8. Fee Structure Management

Functionality:

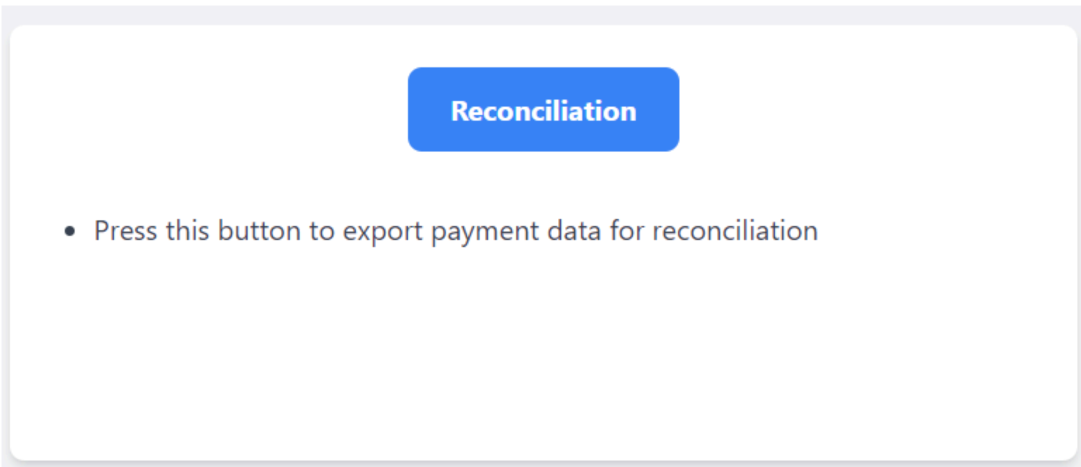
- Add Fee Structure:
    - Input:
        - Course.
        - Category.
        - Fee details (e.g., tuition fee, insurance fee, etc.).
    - Output:
        - Add the specified fee structure for the given course and category.
        - Update the fee details for all students belonging to that course and category.
- Edit Fee Structure:
    - Input:
        - Course and category of the existing fee structure to be modified.
        - Updated fee details.
    - Output:
        - Modify the fee structure according to the updated details.
        - Update the fee details for all affected students.
- Delete Fee Structure:
    - Input:
        - Course and category of the fee structure to be deleted.
    - Output:
        - Remove the specified fee structure for the given course and category.



9. Reconciliation

Functionality:

- Export Reconciliation Data:
    - Input:
        - Generate an Excel sheet containing all students' fee structure and payment details.
        - Segregate payment details by payment type (e.g., bank transfer, upi, neft, qfix etc.).
    - Output:
        - Export an Excel sheet with comprehensive reconciliation data, including fee structure and payment details categorized by payment type.



10. Change Log

Functionality:

- Record Changes:
    - Automatically track and record all modifications made to the system, including:
        - Addition, modification, or deletion of fee structures.
        - Updates to student profiles, including fee details, remission amounts, etc.
        - Any changes made to the reconciliation data or payment details.
        - Other system modifications or updates.
    - Each entry in the change log should include:
        - Date and time of the change.
        - Description of the change.
- View Change Log:
    - Input:

- Access to view the change log.

- Output:
  - Display a chronological list of all recorded changes, allowing users to track modifications made to the system over time.

Logs

ACTION	TIMESTAMP
added fee structure for B.Tech : GEN	April 17, 2024, 5:22 p.m.
fee structure of M.Tech : GEN deleted	April 17, 2024, 4:54 p.m.
updated details of 220001006	April 17, 2024, 4:33 p.m.

Student Portal

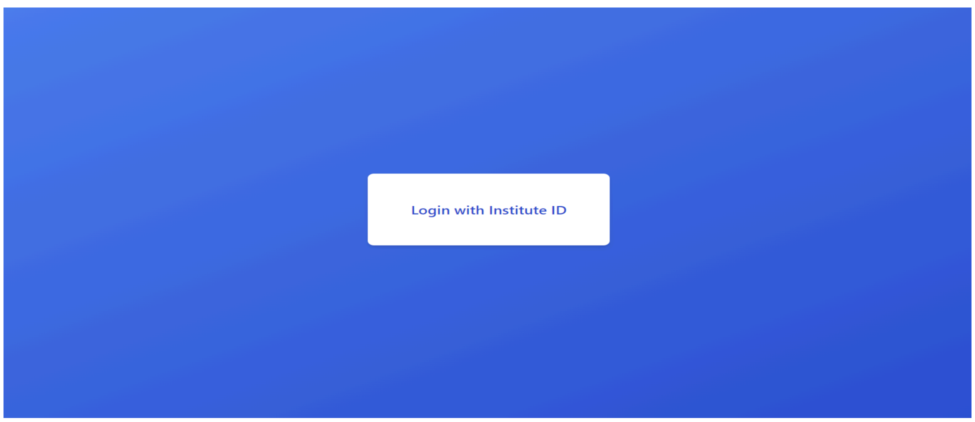
1. Login

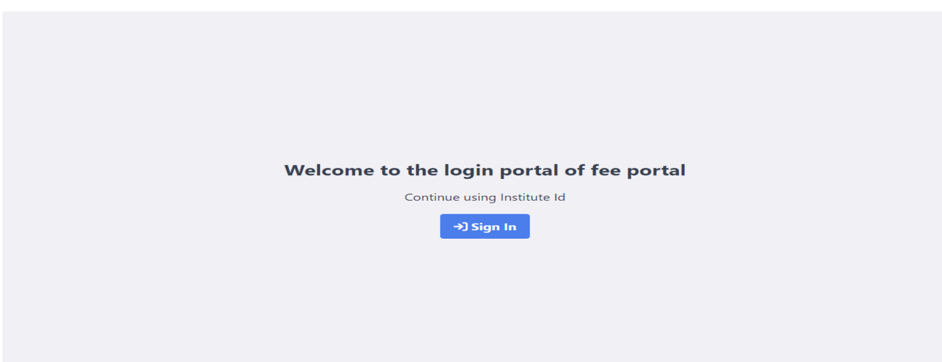
Input:

- It will ask you to login with institute mail id.

Output:

- After selecting the institute mail id it will redirect to the student dashboard. Otherwise it will remain on the sign in page.



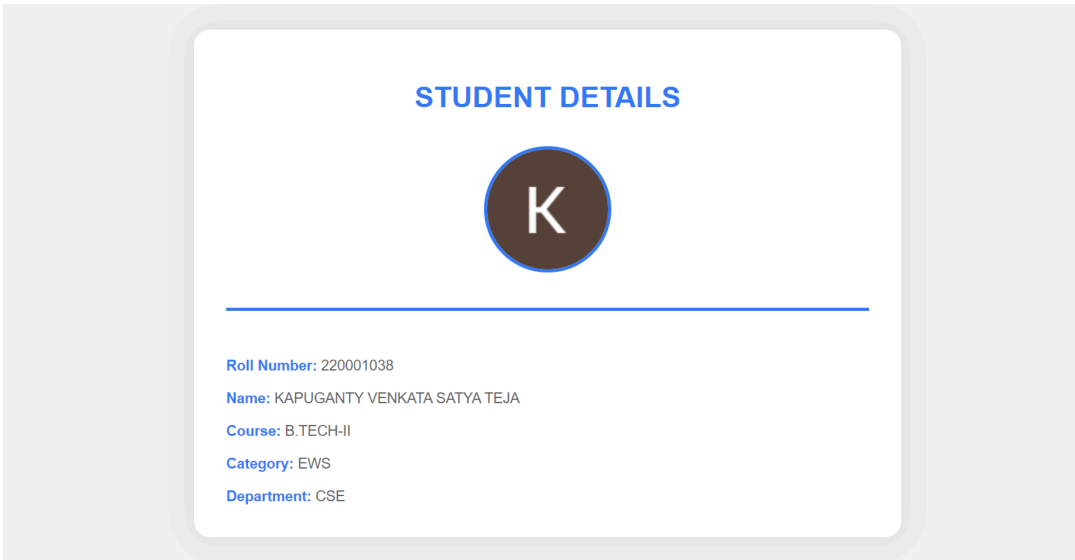


2.Student Profile

- Click on the profile button in the dashboard.

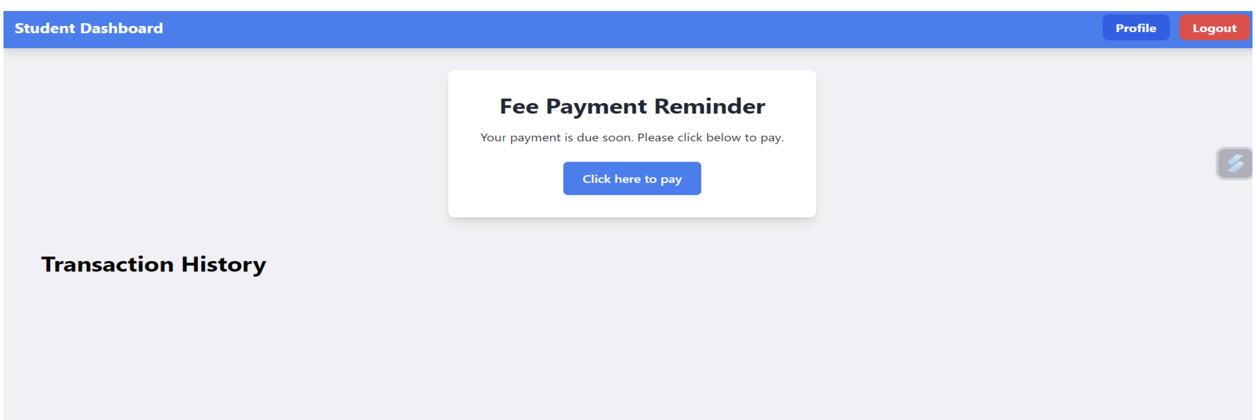
Output:

- It will redirect to a html page which shows student’s details like name,roll number,category,department,course retrieved from the database.
- It will also show the profile pic which was retrieved from the mail id.



3.Transaction History

- It will show the receipts of previous payments of students in the dashboard.



INDIAN INSTITUTE OF TECHNOLOGY INDORE

Khandwa Road, Simrol, Indore 453552

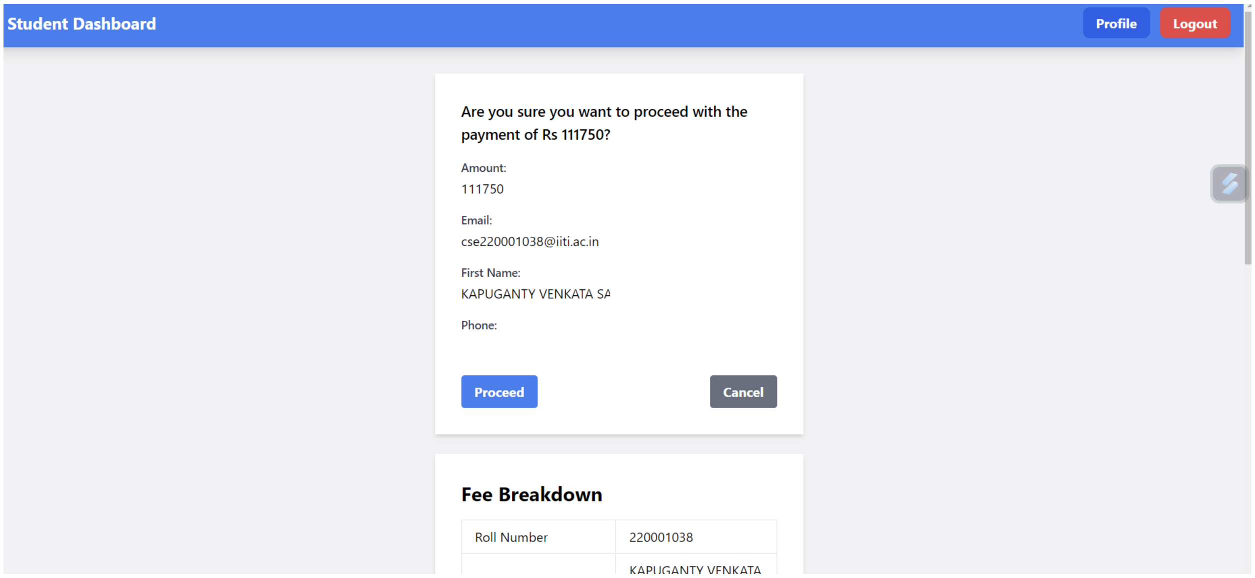
FEE RECEIPT (SPRING 2024)

RECEIPT NO.	2	**DATE**	March 30, 2024
ROLL NO.	220001038	**COURSE**	B.TECH-II
NAME	KAPUGANTY VENKATA SATYA TEJA		
CATEGORY	EWS	**DEPARTMENT**	CSE

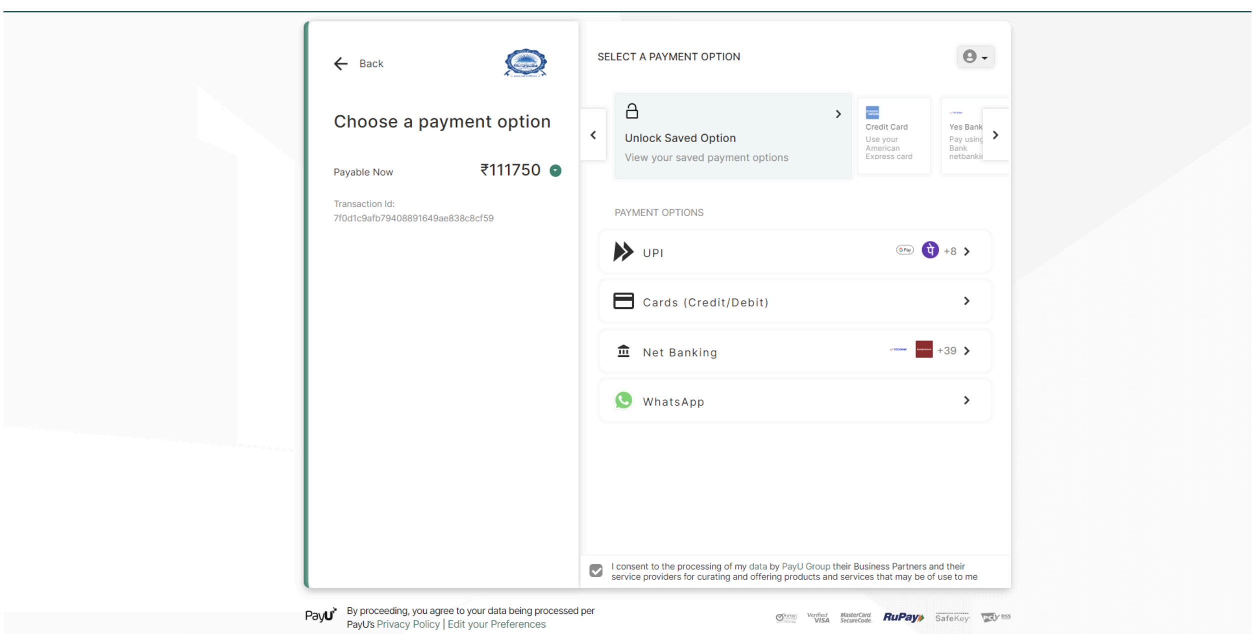
SR.NO.	PARTICULARS	AMOUNT (Rs.)
1	Tuition Fee	
2	Insurance Fee	1
3	Examination Fees	1
4	Registration Fee	1
5	Gymkhana Fee	1
6	Medical Fee	1
7	Student Benevolent Fund	1
8	Laboratory/Research Facilities Fee	1
9	Semester Mess Advance	1

4.Fee payment

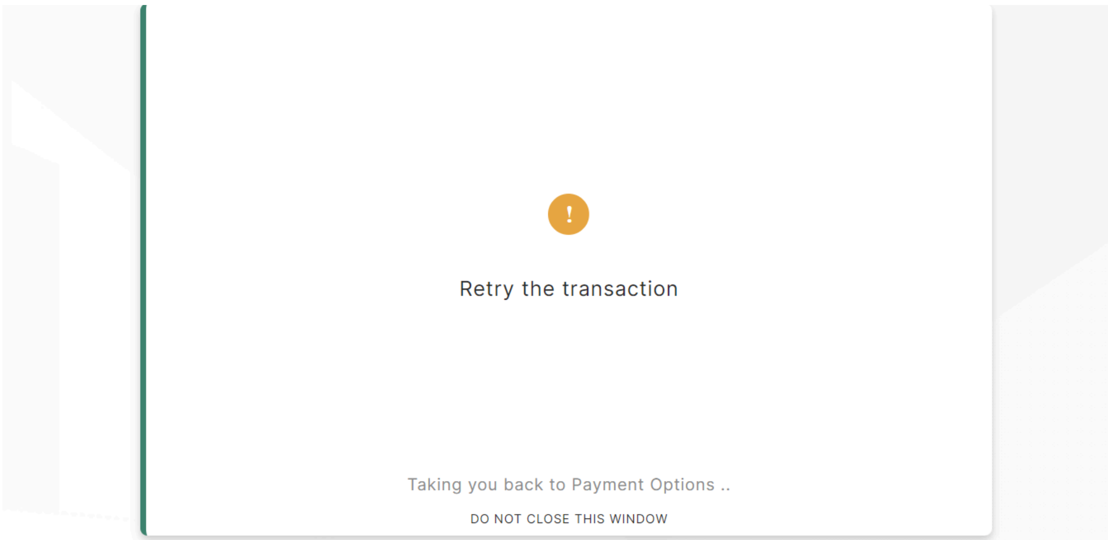
- Click on the ‘Click here to pay’ button in the Fee Payment Reminder section to pay the due of the fees.
- It will redirect to the html page where you can find fees due receipt.



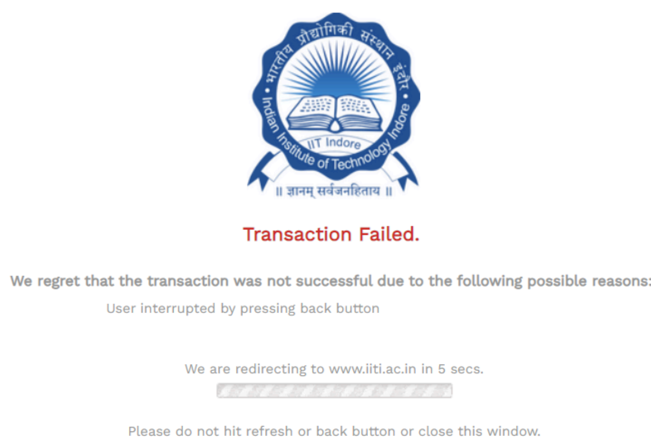
- Enter the phone number and click the ‘Proceed’ button so that it will redirect to PayU.
- In this page you will be given some payment options like through UPI , Cards(debit/credit) , Net banking and Whatsapp.



- As per your comfort you can select any payment option and enter the required details to proceed the payment.
- If you cancel the payment in the middle of the process itt will again redirect to the dashboard.



- If you give the wrong credentials, then the payment transaction will fail.



5.Logout

- After completion of your work you can logout by clicking on the 'Logout' button in the dashboard.
- Then it will again redirect to the login page.