

PROJECT DOCUMENTATION

# FEE PAYMENT

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UNDER THE GUIDANCE OF  
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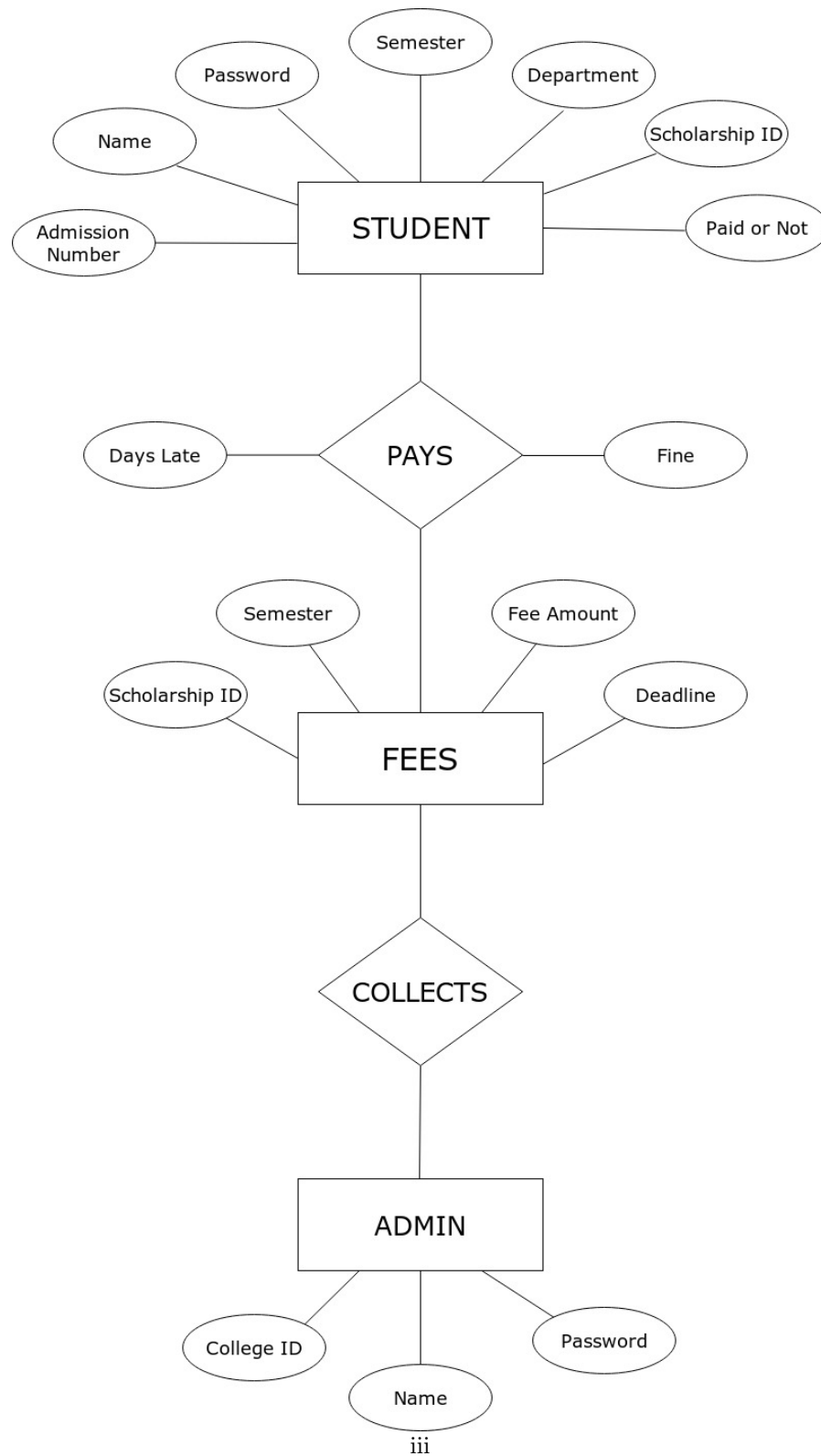


Department of Computer Science and Engineering  
COLLEGE OF ENGINEERING TRIVANDRUM  
26-11-2019

# INTRODUCTION

The current fee payment system in our college involves skipping class and standing in long queues. This process is tiresome as well as time consuming. Our project tries to make life easier for students in paying their fees by providing an Online Platform to do so. Here we present the various functionalities of our Online Fee Payment System CETPay

## ER Diagram

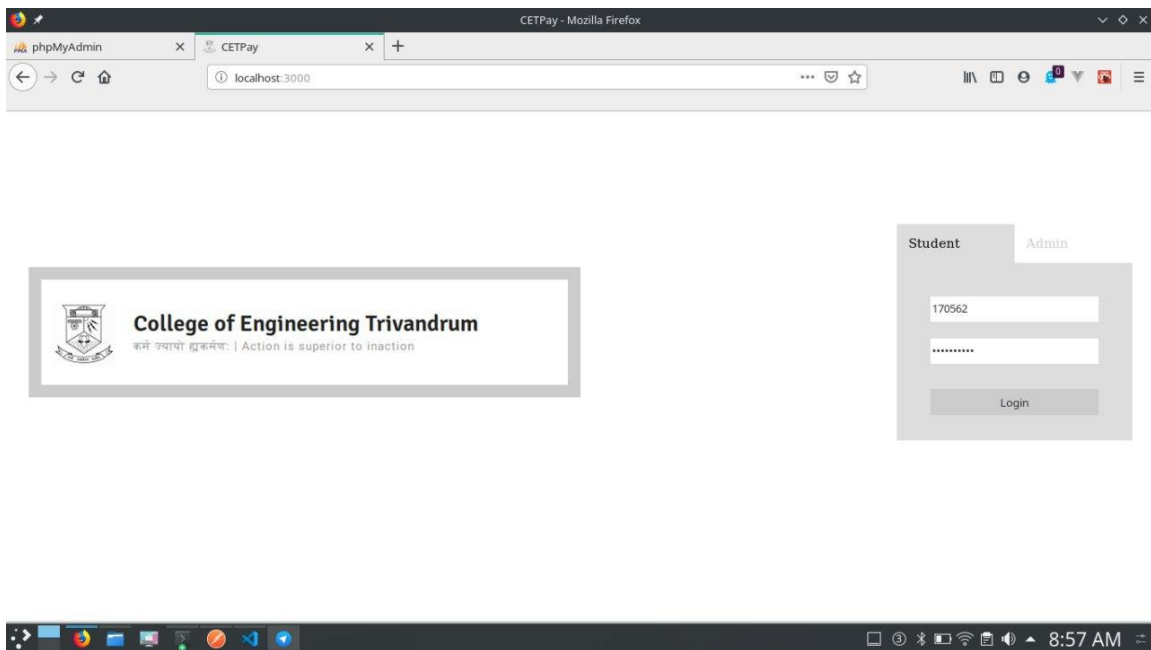


# FEATURES

## STUDENT

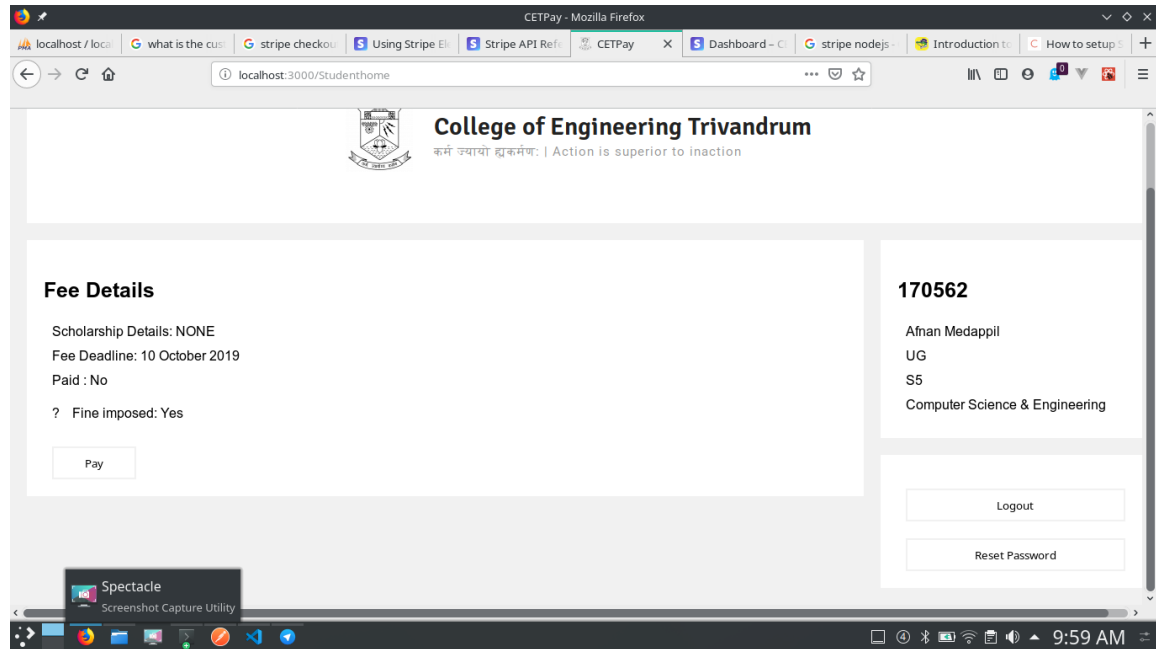
### Login

Students can log in to their accounts using their Admission Number and Password. CETPay uses token based authentication.



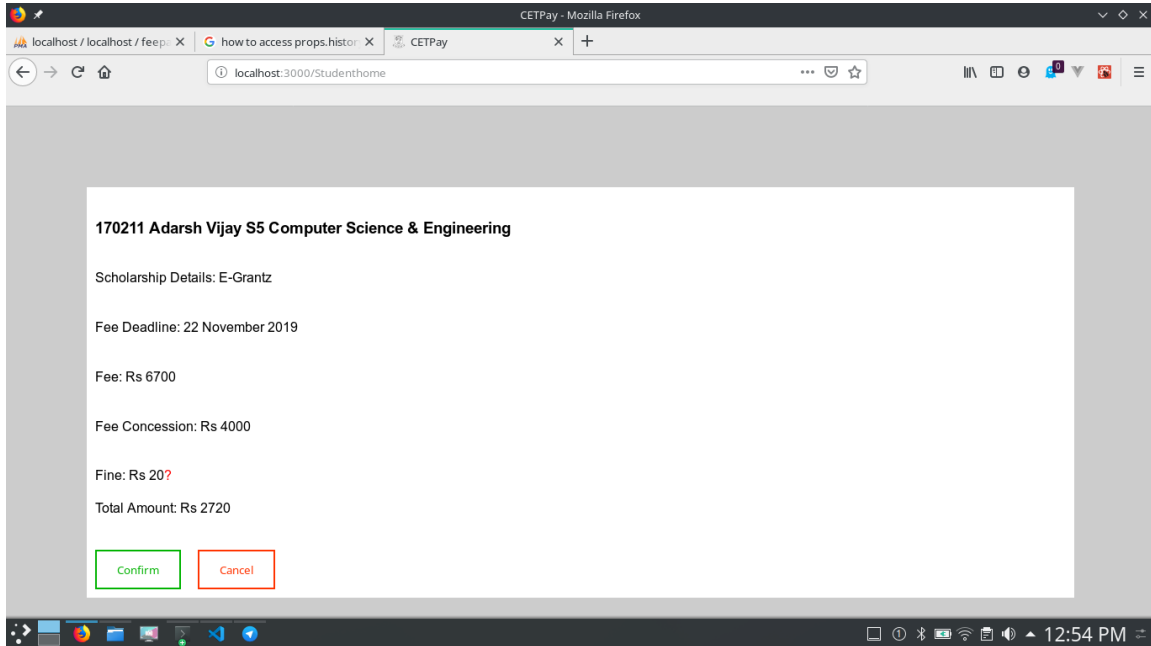
## Dashboard

Upon Login, A student is taken to his dashboard. The dashboard displays information such as the Student's name, admission number, programme, department etc. It also displays whether he/she has paid the fees, the fee deadline, whether a fine has been imposed. If the fee hasn't been paid, A 'Pay' button will be available for commencing the payment. The student dashboard also has buttons for logout and resetting the student's password.

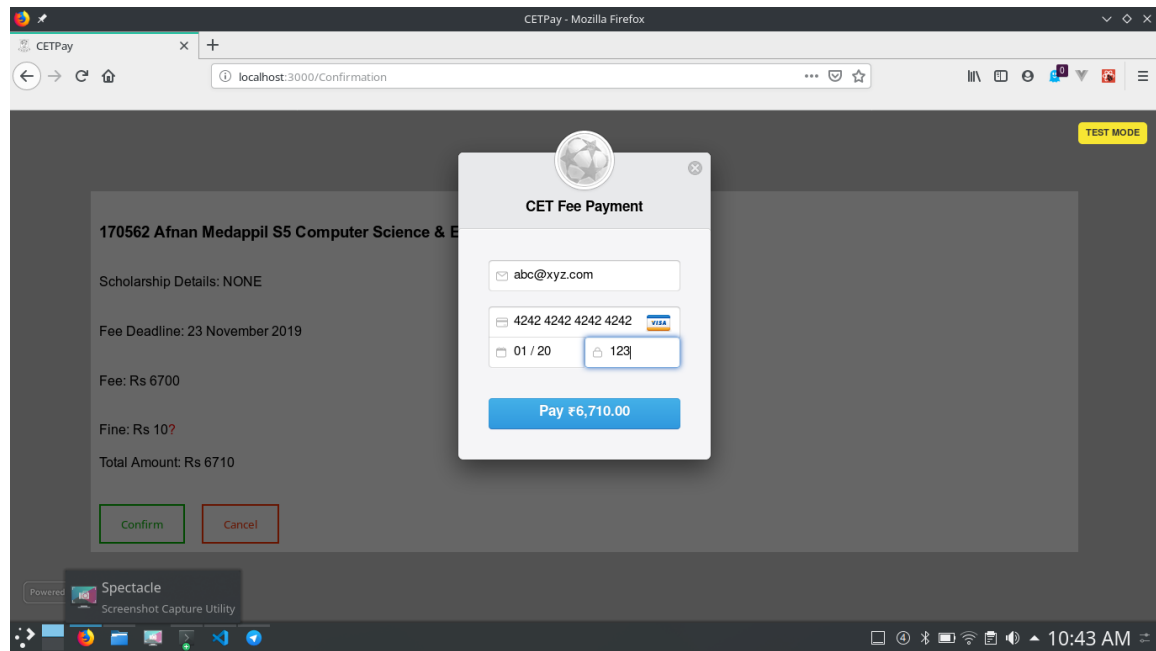


## Initiating Payment

On Clicking The 'Pay' button in the dashboard, the student is taken to a confirmation page where his Payment Summary is displayed.



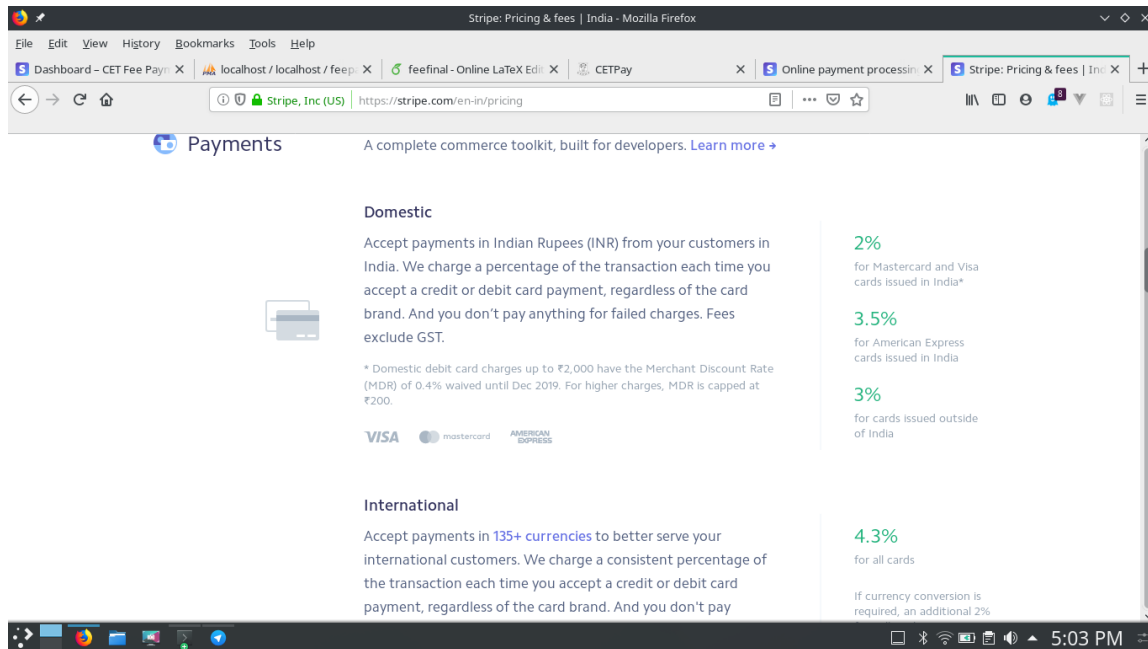
On Clicking the 'Confirm' button, the student is taken to a payment screen where he/she has to enter his/her email id and card details. On clicking the 'Cancel' button, the student is taken back to the dashboard.



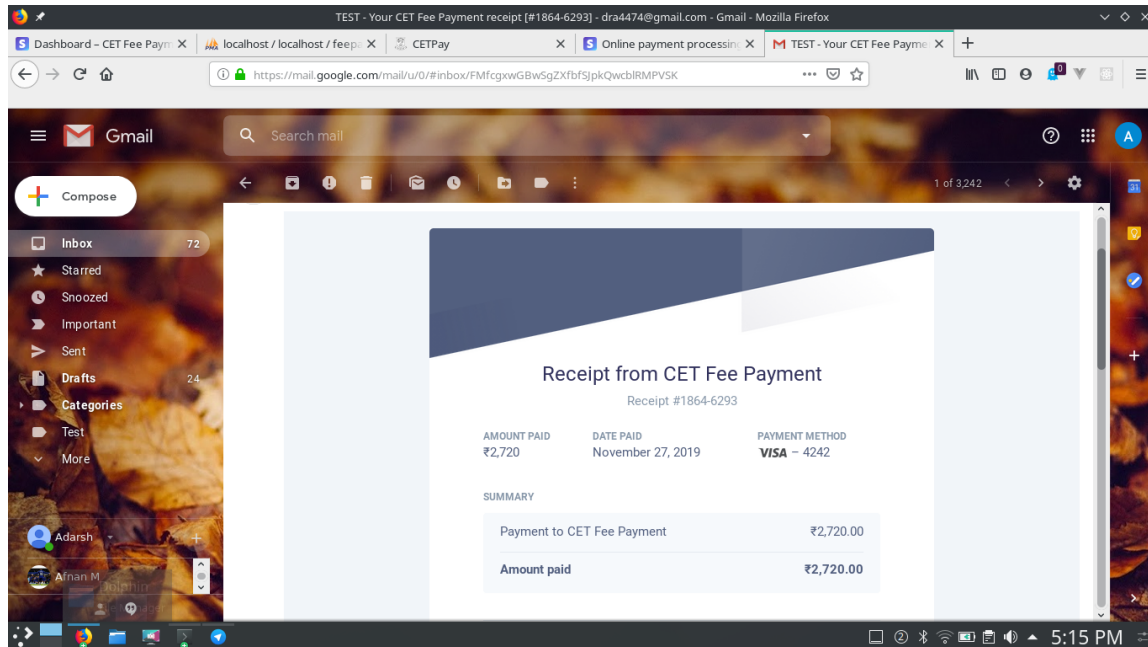
On Successful payment, a Success message is displayed and the student is taken back to his dashboard.

## Payment Details

We have used Stripe for Online Payment Processing. Stripe's payment charges are as follows:



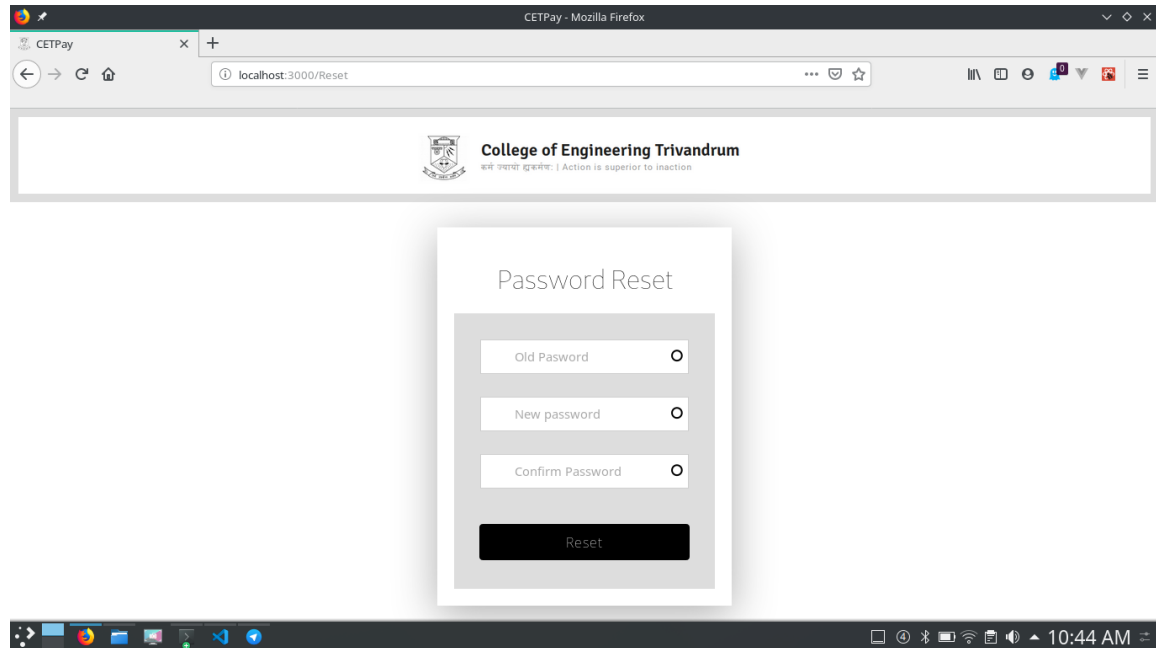
The major reason we have used Stripe for the project is that it provides a test mode. On Successful Payment, the payment receipt is sent to the email provided by the student at the time of payment.





## Reset Password

A Student can reset his/her password by clicking the 'Reset Password' button in his dashboard.



The screenshot shows a Mozilla Firefox browser window with the address bar displaying 'localhost:3000/Reset'. The page header features the CETPay logo and the text 'College of Engineering Trivandrum' with the motto 'कर्म तपायाद् द्युक्तेयः | Action is superior to inaction'. A modal form titled 'Password Reset' is centered on the screen. It contains three input fields: 'Old Pasword', 'New password', and 'Confirm Password', each with a toggle icon. Below these fields is a black 'Reset' button. The browser's taskbar at the bottom shows the time as 10:44 AM.

College of Engineering Trivandrum  
कर्म तपायाद् द्युक्तेयः | Action is superior to inaction

Password Reset

Old Pasword

New password

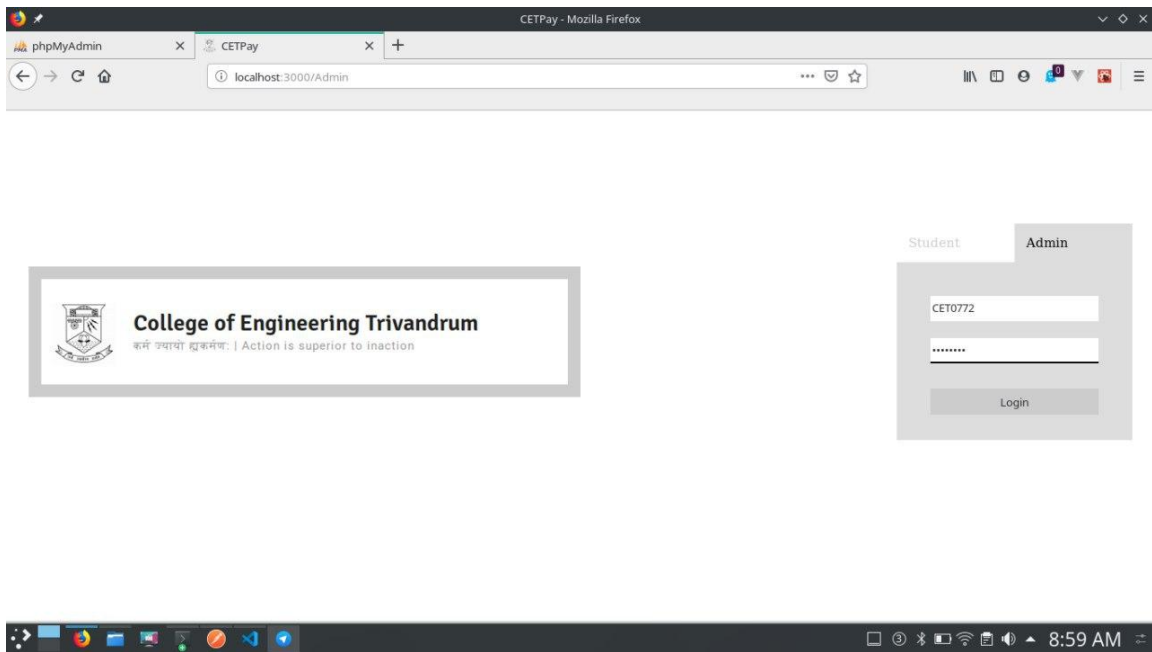
Confirm Password

Reset

# ADMIN

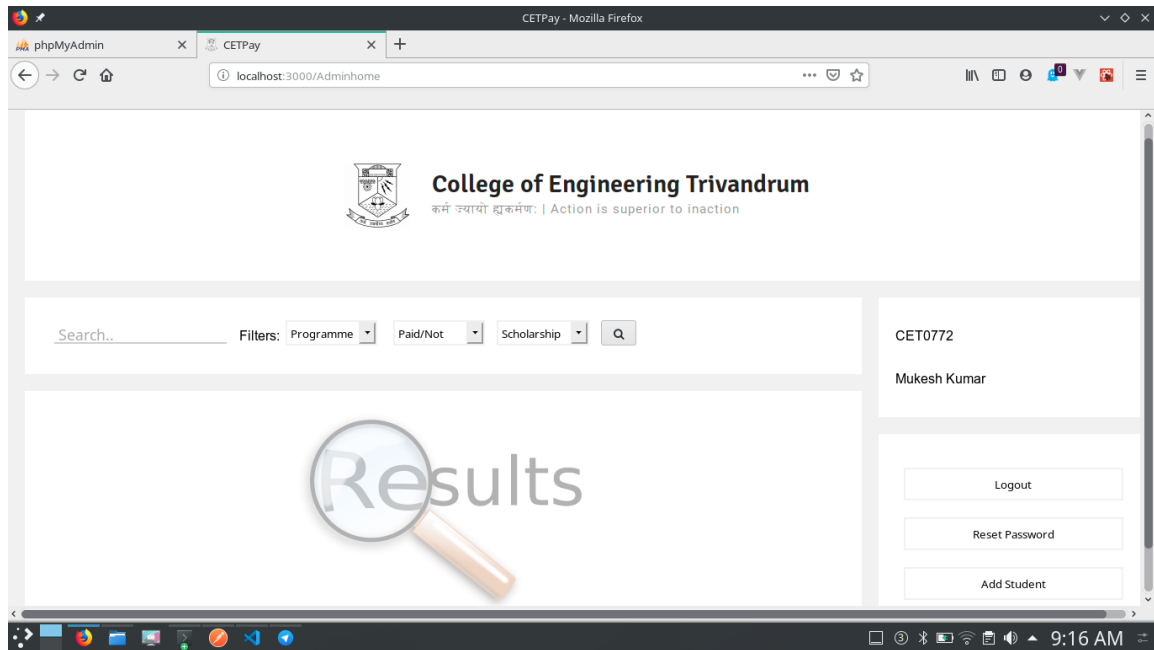
## Login

Administrators can log in to their accounts using their College ID and Password.



## Dashboard

Upon login, the Admin is taken to his dashboard. His credentials are displayed to the right. Various filters are provided for the Admin to search for students.



## Searching for Students

- Search for students by admission number

The screenshot shows a web browser window titled "CETPay - Mozilla Firefox" with the address bar displaying "localhost:3000/Adminhome". The page header features the College of Engineering Trivandrum logo and the motto "कर्म ज्यायो ह्यकर्मणः | Action is superior to inaction". Below the header, there is a search bar with the text "170211" and filters for "Programme", "Paid/Not", and "Scholarship". The main content area is titled "Student Details" and contains a table with the following data:

ADMNO	NAME	PROG	SEM	SCHOL	DEADLINE	DEPT	PAID	FINE
170211	Adarsh Vijay	UG	S5	E-Grantz	22 November 2019	Computer Science & Engineering	Pay	Yes

On the right side of the page, there is a sidebar with the text "CET0772" and "Mukesh Kumar". Below this, there are three buttons: "Logout", "Reset Password", and "Add Student". The bottom of the browser window shows the Windows taskbar with the time "11:01 AM" and various system icons.

- Search for students by programme

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कर्म जयायो ह्यकर्मणः | Action is superior to inaction

Search... Filters: PG Sem Department Paid/Not Scholarship Q

CET0772  
Mukesh Kumar

Logout  
Reset Password  
Add Student

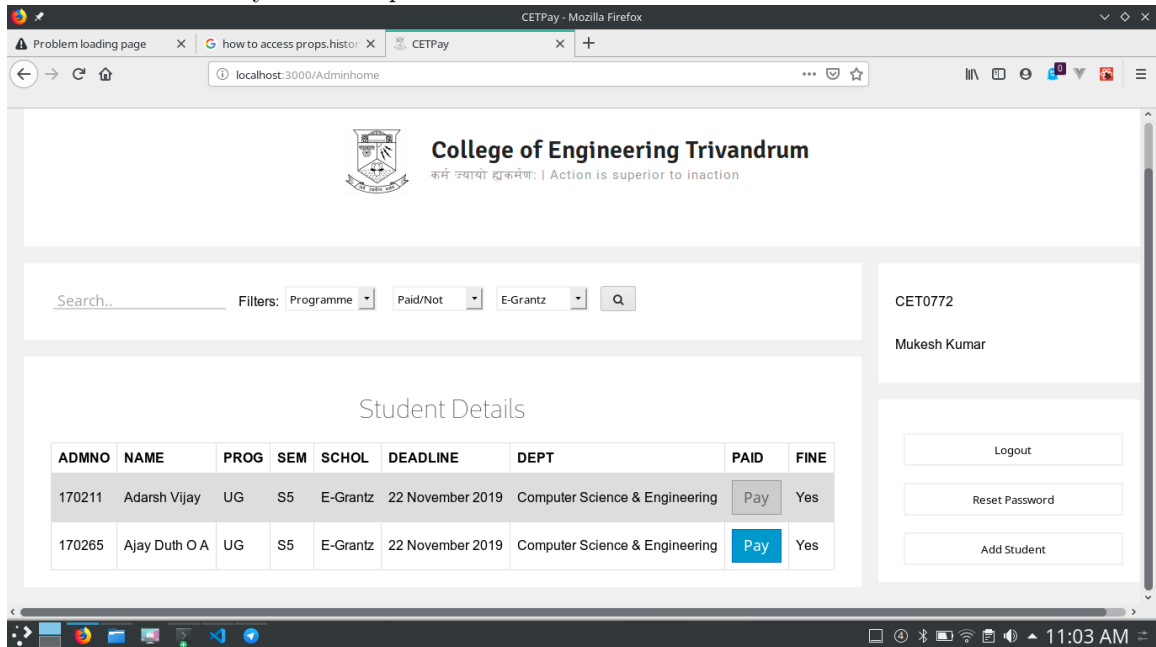
Student Details

ADMNO	NAME	PROG	SEM	SCHOL	DEADLINE	DEPT	PAID	FINE
190288	Eden Hazard	PG	S1	Merit	02 November 2019	Mechanical Engineering	Pay	No

Spectacle  
Screenshot Capture Utility

11:02 AM

- Search for students by scholarship



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कर्म ज्यायो ह्यकर्मणः | Action is superior to inaction

Search.. Filters: Programme Paid/Not E-Grantz Q

**Student Details**

ADMNO	NAME	PROG	SEM	SCHOL	DEADLINE	DEPT	PAID	FINE
170211	Adarsh Vijay	UG	S5	E-Grantz	22 November 2019	Computer Science & Engineering	Pay	Yes
170265	Ajay Duth O A	UG	S5	E-Grantz	22 November 2019	Computer Science & Engineering	Pay	Yes

**CET0772**  
Mukesh Kumar

Logout  
Reset Password  
Add Student

11:03 AM

- Search for students by fee payment status

The screenshot shows the CETPay web application running in a Mozilla Firefox browser. The address bar indicates the URL is localhost:3000/Adminhome. The page features a search bar with filters for Programme, Not Paid, and Scholarship. Below the search bar, a table titled "Student Details" lists three students with their respective payment statuses. On the right side, there is a sidebar with the user's name, CET0772, and Mukesh Kumar, along with buttons for Logout, Reset Password, and Add Student.

Search... Filters: Programme Not Paid Scholarship Q

Student Details

ADMNO	NAME	PROG	SEM	SCHOL	DEADLINE	DEPT	PAID	FINE
170265	Ajay Duth O A	UG	S5	E-Grantz	22 November 2019	Computer Science & Engineering	Pay	Yes
170668	Adarsh S	UG	S5	NONE	22 November 2019	Computer Science & Engineering	Pay	Yes
170713	Afhan Ahmed	UG	S5	NONE	22 November 2019	Electrical & Electronics Engineering	Pay	Yes

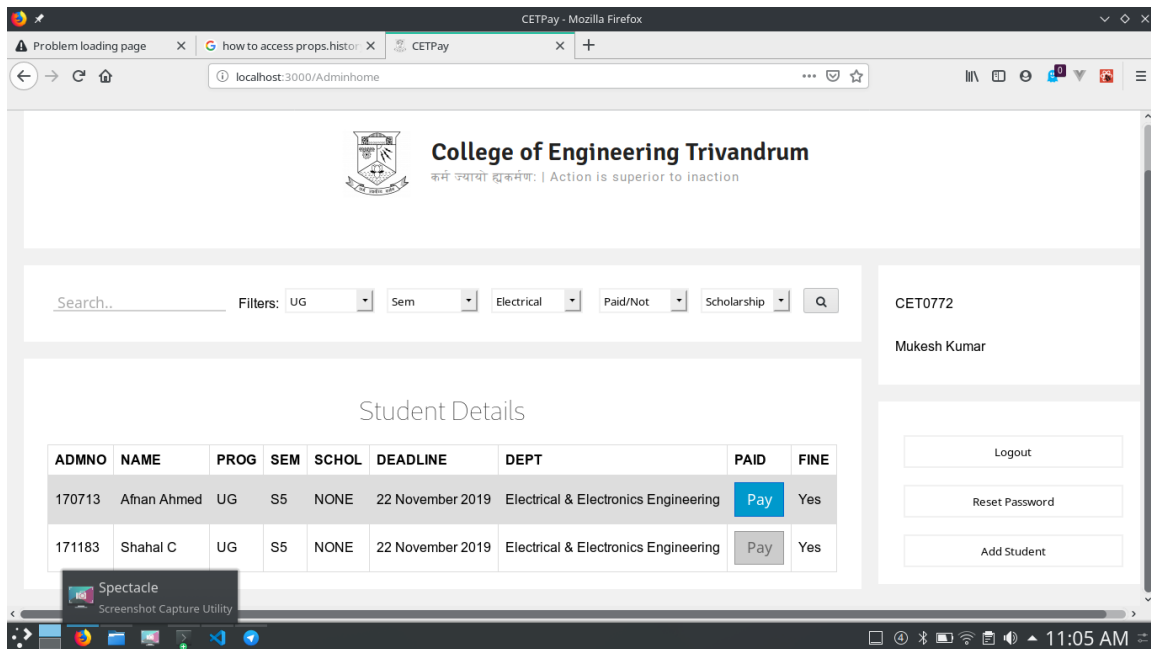
CET0772  
Mukesh Kumar

Logout  
Reset Password  
Add Student

11:03 AM

- Search for students by department

Here multiple filters are used



**College of Engineering Trivandrum**  
कर्म ज्ञायो भू कर्मणः | Action is superior to inaction

Search.. Filters: UG Sem Electrical Paid/Not Scholarship Q

**Student Details**

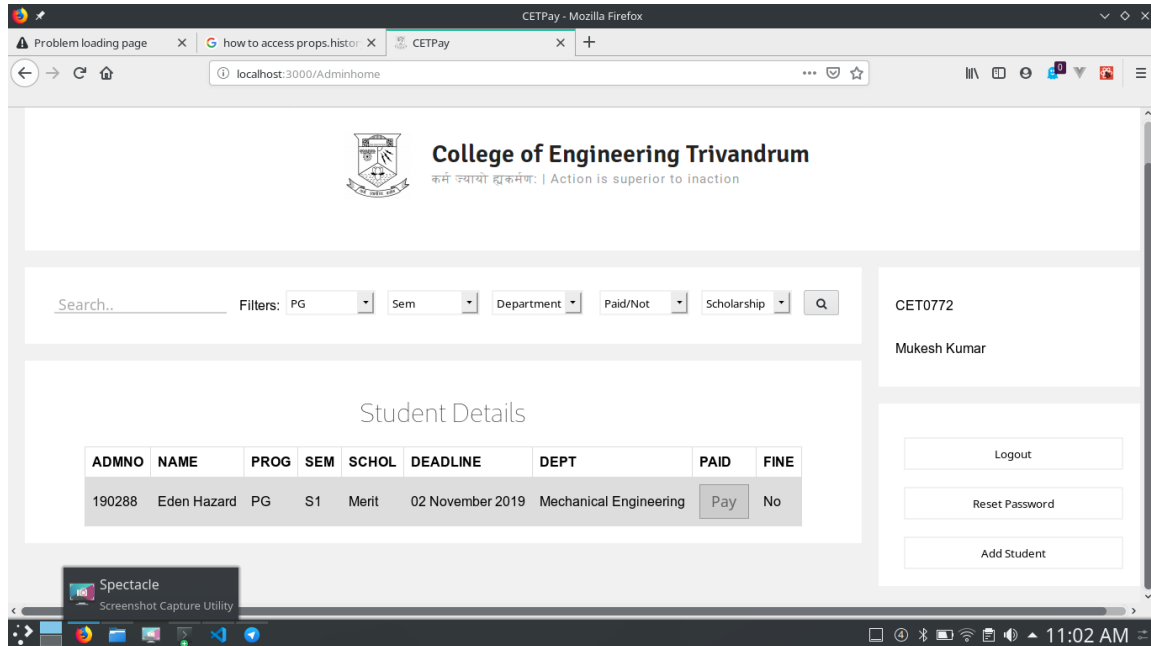
ADMNO	NAME	PROG	SEM	SCHOL	DEADLINE	DEPT	PAID	FINE
170713	Afhan Ahmed	UG	S5	NONE	22 November 2019	Electrical & Electronics Engineering	<a href="#">Pay</a>	Yes
171183	Shahal C	UG	S5	NONE	22 November 2019	Electrical & Electronics Engineering	<a href="#">Pay</a>	Yes

**Logout**  
**Reset Password**  
**Add Student**

CET0772  
Mukesh Kumar



- Search for students by semester



Upon a successful search, student details are fetched into a table.

For offline payments, the admin can update the paid option in the database from this table. Student passwords can also be reset from the reset option in the table.

## New Student Registration

An Admin can add the details of a new student to the database using the 'Add Student' option on his dashboard.

The image displays two screenshots of the CETPay New Student Registration form, showing the process of adding a new student to the database.

**Top Screenshot:** The form is titled "New Student Registration". It contains the following fields and options:

- ID: 152902
- Name: XYZABC
- Date of Birth: 08 / 04 / 1998
- Gender: UG
- Email: EE
- Program: S5
- Department: E-Grantz
- Register button

**Bottom Screenshot:** The form is titled "New Student Registration". It contains the following fields and options:

- ID: 170686
- Name: E-Pharmacy N
- Date of Birth: 08 / 04 / 1998
- Gender: UG
- Email: EE
- Program: S5
- Department: NONE
- Register button

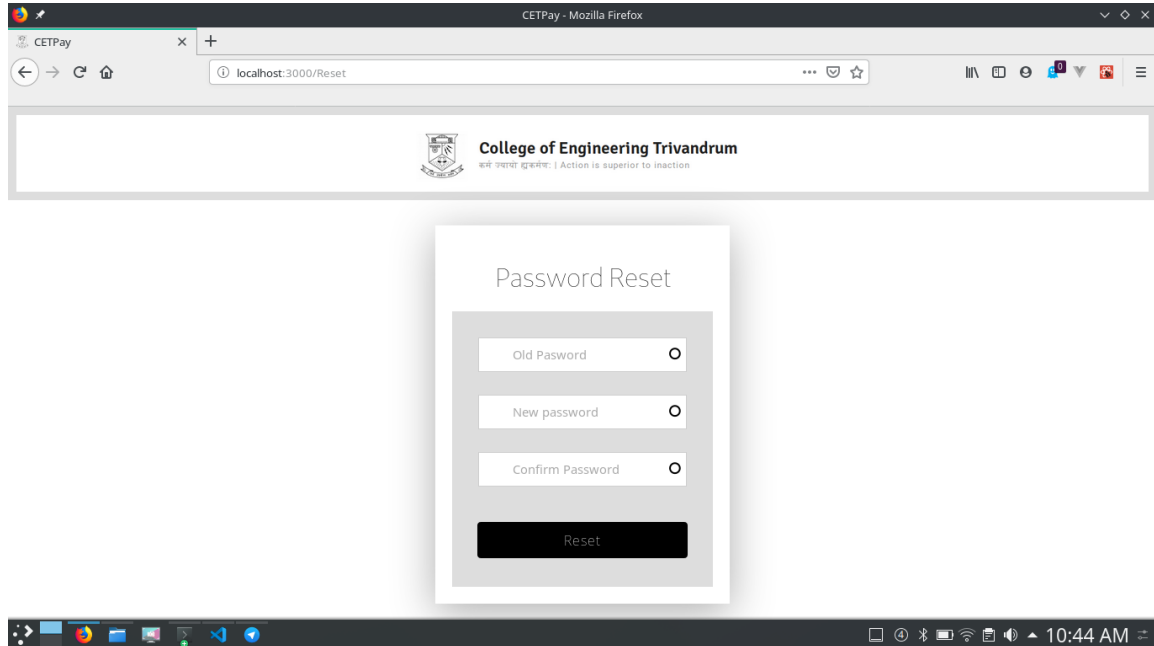
A modal overlay is displayed in the center of the form, indicating the successful addition of the student:

Successfully Added Student

Continue

## Reset Password

An Admin can reset his/her password by clicking the 'Reset Password' button on his dashboard.



The screenshot shows a web browser window titled "CETPay - Mozilla Firefox". The address bar displays "localhost:3000/Reset". The page header features the CETPay logo and the text "College of Engineering Trivandrum" with the motto "Action is superior to inaction". The main content area displays a "Password Reset" form with three input fields: "Old Pasword", "New password", and "Confirm Password". Each field has a toggle icon on the right. Below the fields is a black "Reset" button. The browser's taskbar at the bottom shows the time as 10:44 AM.

Old Pasword

New password

Confirm Password

Reset

## Viewing Online Payment Log

Payment Log can be viewed on Stripe's site by logging in.

The screenshot shows the Stripe Dashboard interface for a user named 'CET Fee Payment'. The left sidebar contains navigation links: Home, Activate your account, Payments (selected), Disputes, Balance, Customers, Reports, Radar, Billing, Connect, Orders, Developers, Viewing test data (toggle), and Settings. The main content area displays a table of payment logs. The table has columns for AMOUNT, DESCRIPTION, CUSTOMER, and DATE. The first four rows show successful payments of ₹6,720.00, ₹2,720.00, ₹2,720.00, and ₹3,720.00 respectively. The table is filtered to show 4 results. The bottom of the dashboard shows the URL 'https://dashboard.stripe.com/test/payments/ch\_1FjOKPIB0hG5eAmEXzMmUMqs' and the system time '5:59 PM'.

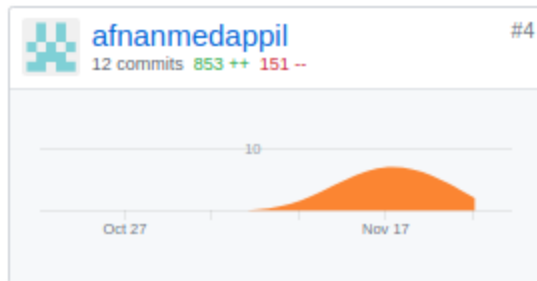
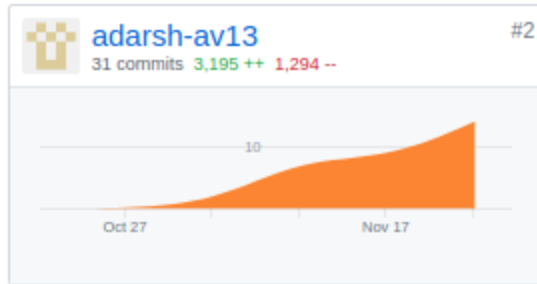
AMOUNT	DESCRIPTION	CUSTOMER	DATE
₹6,720.00	ch_1FjOKPIB0hG5eAmEXzMmUMqs	171183	27-Nov, 4:35 PM
₹2,720.00	ch_1Fj0JII80hG5eAmEoz00j5f	170211	27-Nov, 4:33 PM
₹2,720.00	ch_1Fj2s4IB0hG5eAmEaAn0y3M	170725	26-Nov, 5:40 PM
₹3,720.00	ch_1Fj0nhIB0hG5eAmEb2XeYp2D	170562	26-Nov, 3:27 PM

## Work analysis and git repo link

Oct 20, 2019 – Nov 27, 2019

Contributions: **Commits** ▾

Contributions to master, excluding merge commits



link : <https://github.com/adarshsuresh07/FeePayment/>

## Updates

We're working on an option for the admin to update the Fees and Scholarship details. We also plan to provide a method for adding student details from a CSV file.