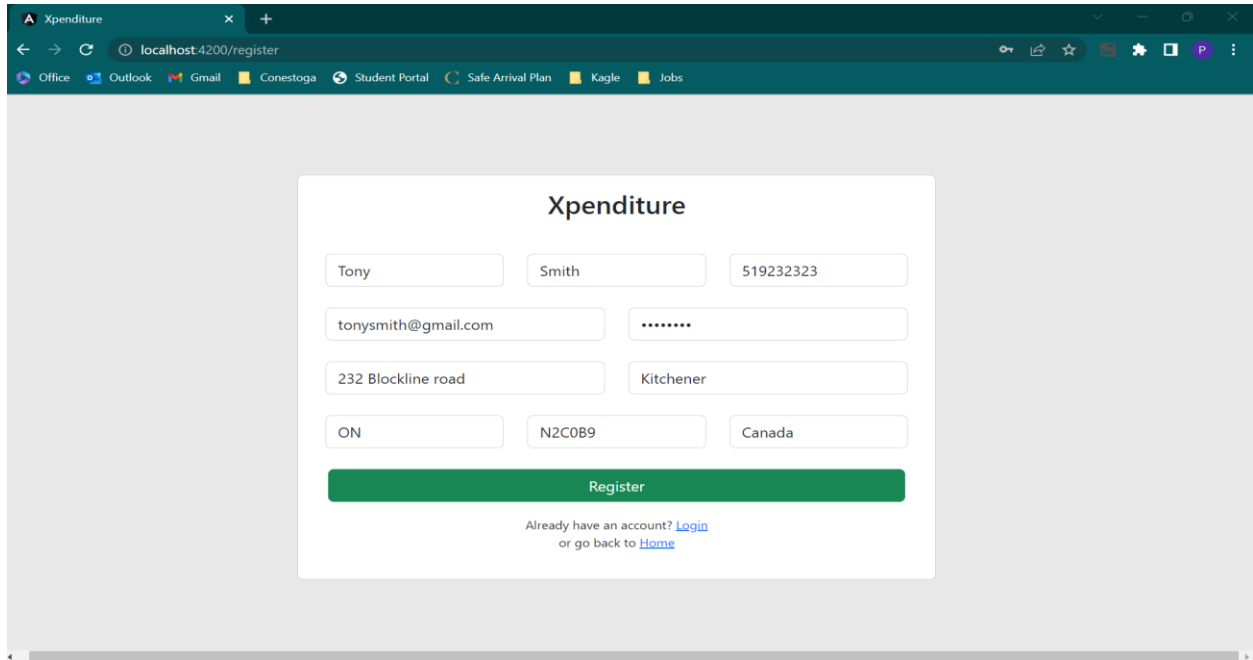


# Xpenditure

## User Registration



A screenshot of a web browser showing the Xpenditure registration page. The browser's address bar displays 'localhost:4200/register'. The page features a central white registration form with the title 'Xpenditure'. The form contains several input fields: 'Tony' (first name), 'Smith' (last name), '519232323' (phone number), 'tonysmith@gmail.com' (email), '232 Blockline road' (address), 'Kitchener' (city), 'ON' (province), 'N2C0B9' (postal code), and 'Canada' (country). A green 'Register' button is positioned below these fields. At the bottom of the form, there is a link to 'Login' for existing users and a link to 'Home'.

Xpenditure

Tony Smith 519232323

tonysmith@gmail.com .....

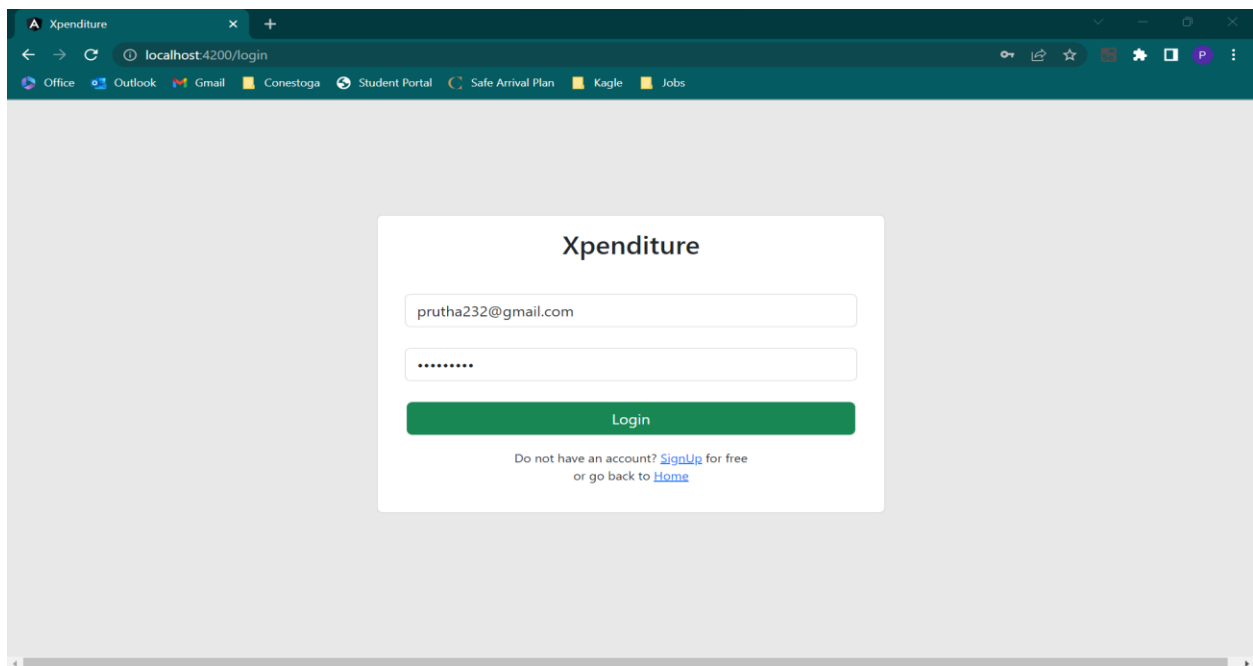
232 Blockline road Kitchener

ON N2C0B9 Canada

Register

Already have an account? [Login](#)  
or go back to [Home](#)

## User Login



A screenshot of a web browser showing the Xpenditure login page. The browser's address bar displays 'localhost:4200/login'. The page features a central white login form with the title 'Xpenditure'. The form contains two input fields: 'prutha232@gmail.com' (email) and '.....' (password). A green 'Login' button is positioned below these fields. At the bottom of the form, there is a link to 'Sign Up' for new users and a link to 'Home'.

Xpenditure

prutha232@gmail.com .....

Login

Do not have an account? [Sign Up](#) for free  
or go back to [Home](#)

User Dashboard

Xpenditure

localhost:4200/home/u-dashboard

OfficeOutlookGmailConestogaStudent PortalSafe Arrival PlanKagleJobs

ExpenseRemindersReports

Xpenditure

### Current Month Expense Summary

Category	Total
Education	1650.00
Food	50.00
Furniture	500.00

User Expense Page

Xpenditure

localhost:4200/home/expense









OfficeOutlookGmailConestogaStudent PortalSafe Arrival PlanKagleJobs

ExpenseRemindersReports

Xpenditure

### Expenses

Add Expense

Date	Category	Amount	Description	Actions
2023-04-12	Furniture	500.00	IKEA chair	 
2023-04-09	Education	150.00	Exam material print	 
2023-04-08	Food	50.00	weekend party	 
2023-04-01	Education	1500.00	Winter semester fees	 

## Add Expense

The screenshot shows the 'Xpenditure' application interface. At the top, there's a navigation bar with 'Expense', 'Reminders', and 'Reports' tabs. The main heading is 'Expenses'. A modal window titled 'Expense Details' is open, allowing a new expense to be added. The modal contains the following fields:

- Category\***: A dropdown menu with 'Education' selected.
- Amount\***: A text input field containing '3500'.
- Expense Date\***: A date picker showing '2023-04-05'.
- Description**: A text area containing 'Semester 2 fee'.

At the bottom of the modal are two buttons: 'Save Changes' and 'Close'. In the background, a table of existing expenses is visible, sorted by date in ascending order.

Date	Category	Amount	Description	Actions
2023-04-12	Furniture	500.00	IKEA chair	
2023-04-09	Education	150.00	Exam material print	
2023-04-08	Food	50.00	weekend party	
2023-04-05	Education	3500.00	Semester 2 fee	
2023-04-01	Education	1500.00	Winter semester fees	

Expenses are sorted by Date in ascending order.



: Use this for editing the expense.



: Use this for deleting the expense.

## Reminders

**Reminder Details**

Email\* prutha232@gmail.com Due Date\* 2023-04-21

Description  
Phone Bill

Save Changes Close

Due Date	Email	Description	Actions
2023-04-21	prutha232@gmail.com	Phone Bill	

Using this functionality user can set up the reminders for upcoming payments.

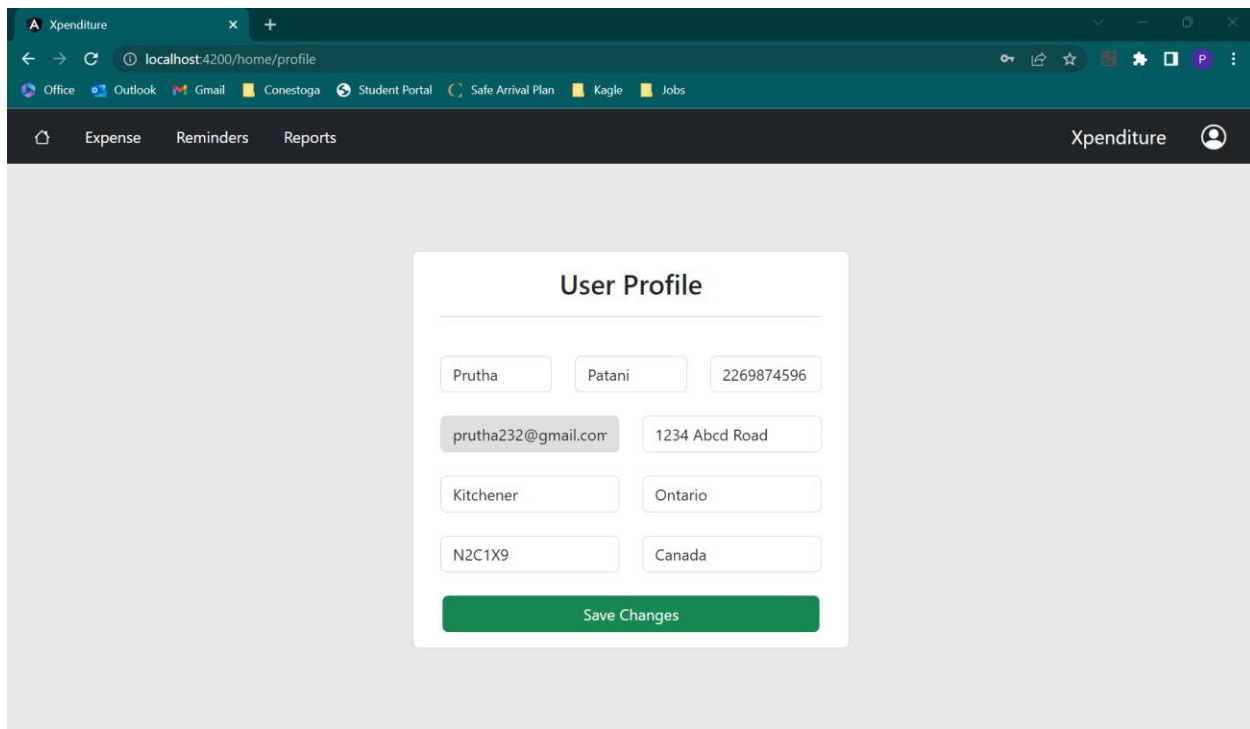
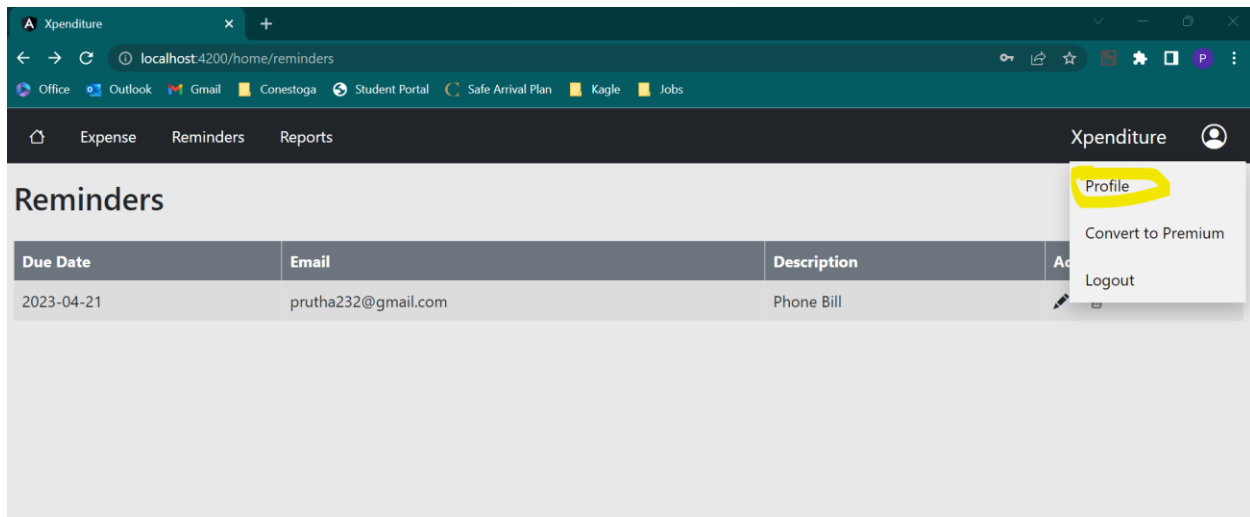


: Use this for editing the reminder.



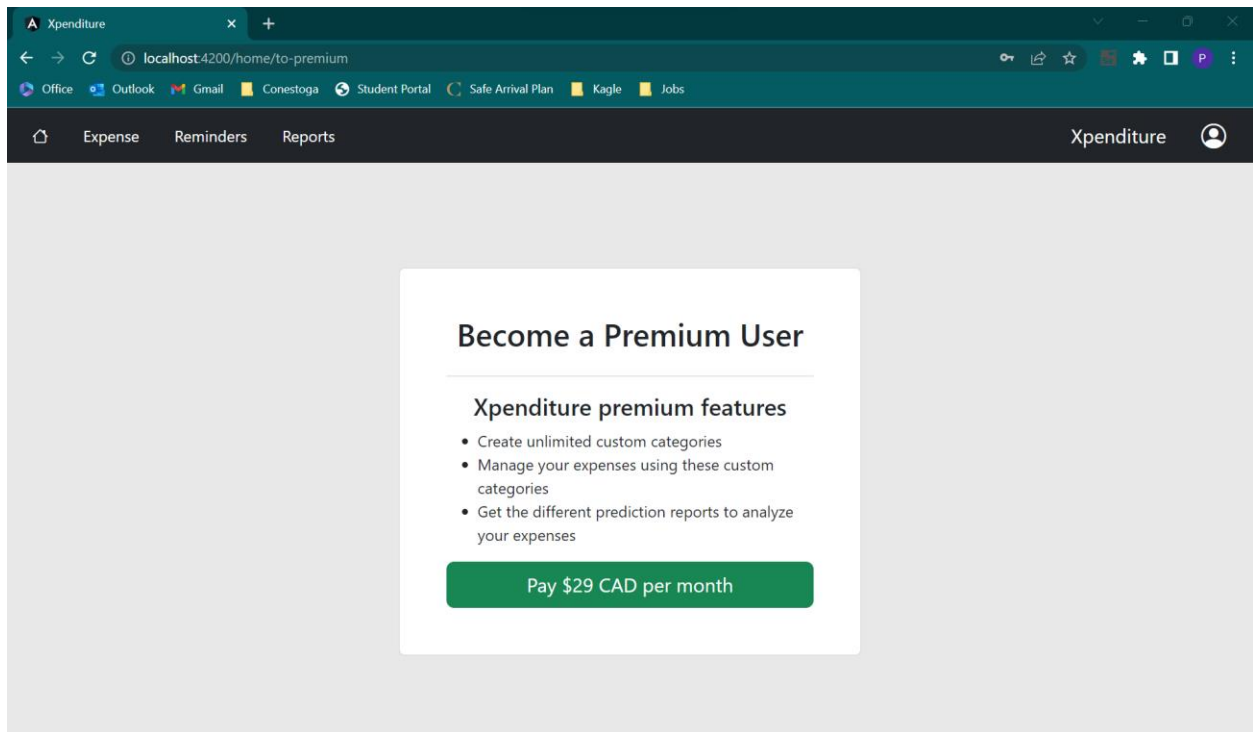
: Use this for deleting the reminder.

## User Profile

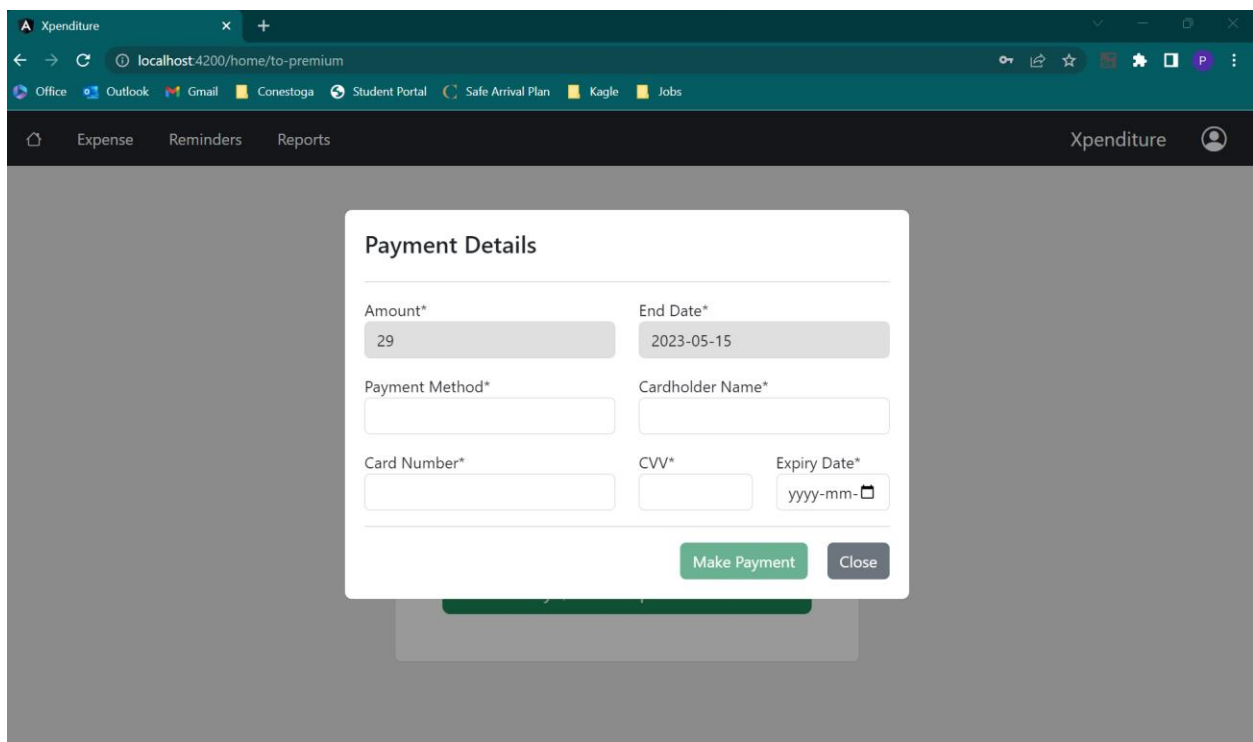


Here, user can update his/her personal information except the email-Id.

## Opting Premium Option



## Make Payment



Xpenditure

localhost:4200/home/to-premium

Office Outlook Gmail Conestoga Student Portal Safe Arrival Plan Kagle Jobs

Expense Reminders Reports Xpenditure

### Payment Details

Amount*	End Date*	
29	2023-05-15	
Payment Method*	Cardholder Name*	
Debit Card	Prutha Patani	
Card Number*	CVV*	Expiry Date*
12344546766	***	2023-04-28

Make Payment Close

Xpenditure

localhost:4200/home/to-premium

Office Outlook Gmail Conestoga Student Portal Safe Arrival Plan Kagle Jobs

Expense Reminders Reports Xpenditure

localhost:4200 says  
Payment received successfully, please wait for admin to approve the request.

OK

### Become a Premium User

#### Xpenditure premium features

- Create unlimited custom categories
- Manage your expenses using these custom categories
- Get the different prediction reports to analyze your expenses

Pay \$29 CAD per month

Premium user can create and modify customized categories.

Custom Categories

Add Custom Category

Custom Category Name	Remarks	Action
Car Loan	added using premium feature	

## Admin Dashboard

Dashboard Category Users

Total Active Users

4

Total Premium Users

1

Current Month Expense Summary

Category	Total
Car Loan	2550.00
Education	5399.00
Food	50.00
Furniture	500.00

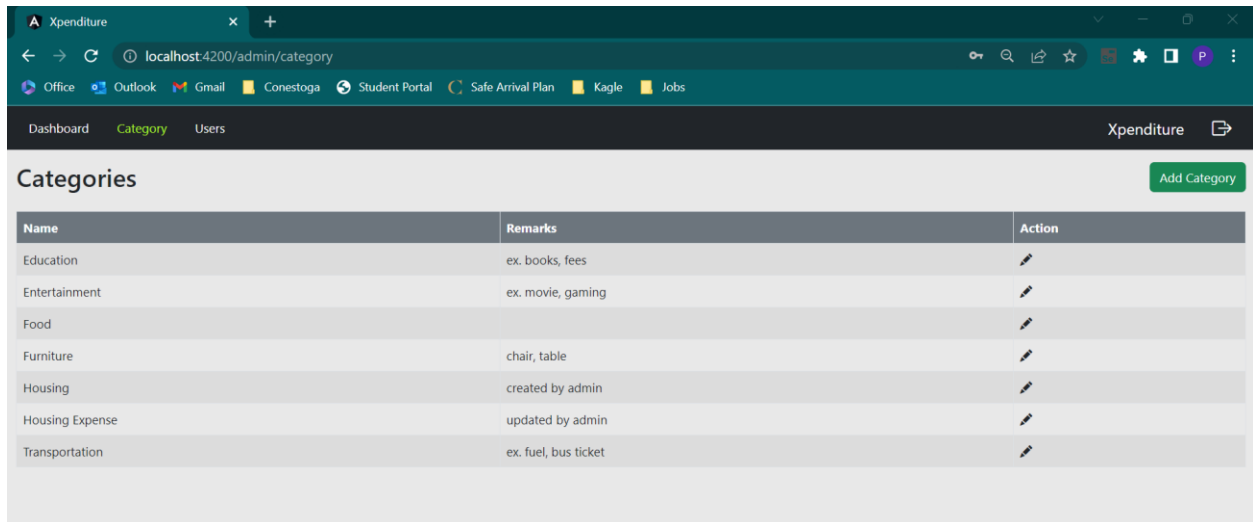
Admin gets total amount spent by all per category for current month.

Admin can also quickly see the count of active and premium users.



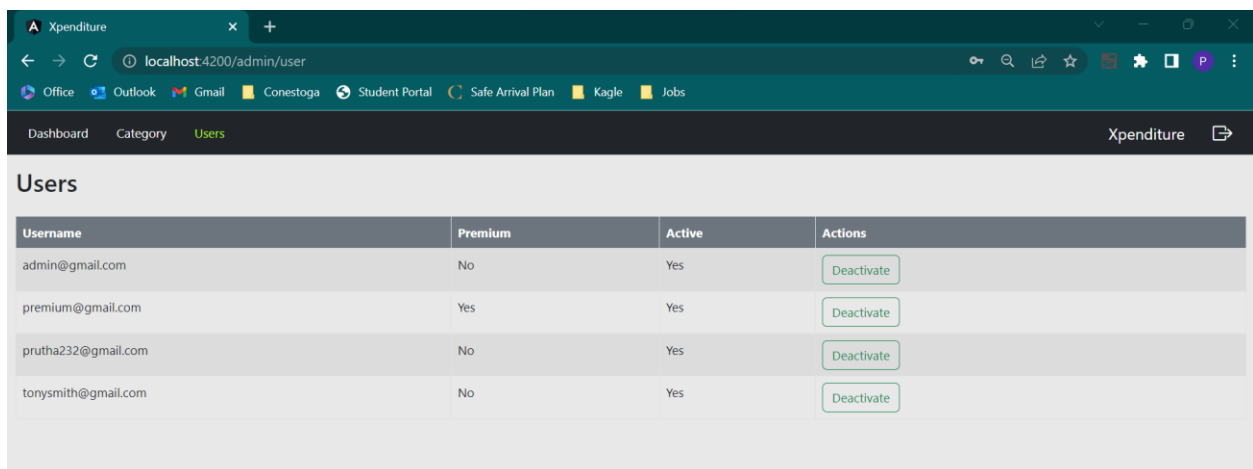
## Category Management by Admin

Note: Admin can create and modify only default categories.



Name	Remarks	Action
Education	ex. books, fees	
Entertainment	ex. movie, gaming	
Food		
Furniture	chair, table	
Housing	created by admin	
Housing Expense	updated by admin	
Transportation	ex. fuel, bus ticket	

## Summarized User Details for Admin



Username	Premium	Active	Actions
admin@gmail.com	No	Yes	<button>Deactivate</button>
premium@gmail.com	Yes	Yes	<button>Deactivate</button>
prutha232@gmail.com	No	Yes	<button>Deactivate</button>
tonysmith@gmail.com	No	Yes	<button>Deactivate</button>

Admin can activate as well as deactivate the user

Whenever any user makes payment for becoming a premium user, admin will get option to approve payment. Once payment is approved user will be upgraded to Premium

Xpenditure

localhost:4200/admin/user

OfficeOutlookGmailConestogaStudent PortalSafe Arrival PlanKagleJobs

DashboardCategoryUsers

Xpenditure

## Users

Username	Premium	Active	Actions
admin@gmail.com	No	Yes	Deactivate
premium@gmail.com	Yes	Yes	Deactivate
prutha232@gmail.com	No	Yes	DeactivateApprove Payment
tonysmith@gmail.com	No	Yes	Deactivate

Xpenditure

localhost:4200/admin/user

OfficeOutlookGmailConestogaStudent PortalSafe Arrival PlanKagleJobs

DashboardCategoryUsers

Xpenditure

## Users

Username

admin@gmail.com

premium@gmail.com

prutha232@gmail.com

tonysmith@gmail.com

Payment Details

Subscription Start Date

2023-04-14

Subscription End Date

2023-05-14

Amount

29

Approve

Close

Actions

Deactivate

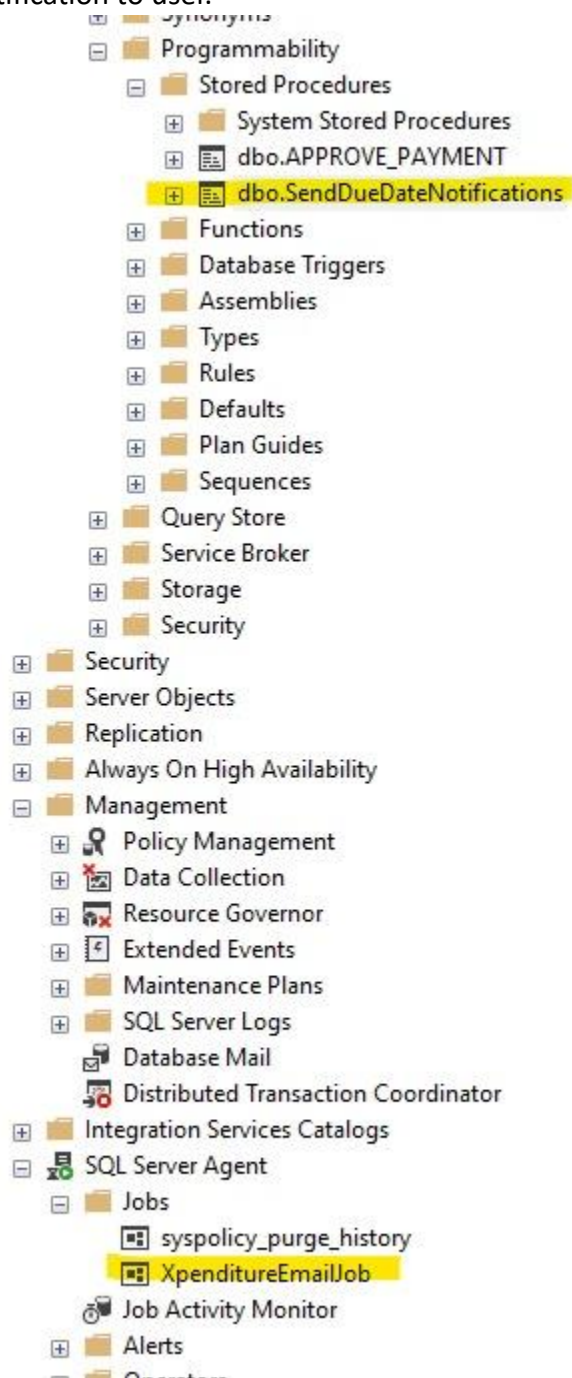
Deactivate

DeactivateApprove Payment

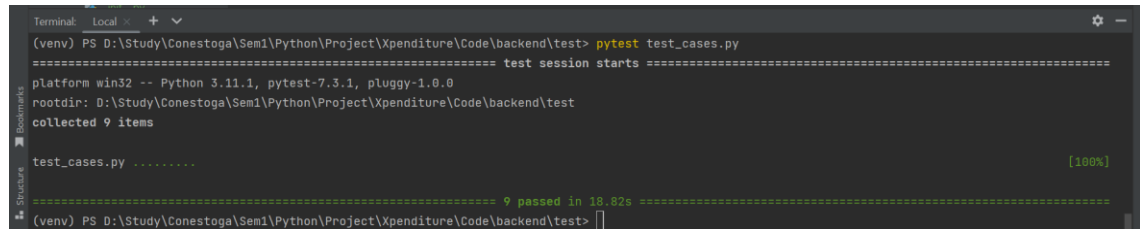
Deactivate

## Notes:

- We have used **JWT** tokens for authorization purpose.
- For reminders functionality, we have created a stored procedure (**SendDueDateNotifications**) and scheduling job (**XpenditureEmailJob**) to send email notification to user.



- We have performed following type of testing.
  - o used **pytest** for **unit testing**.

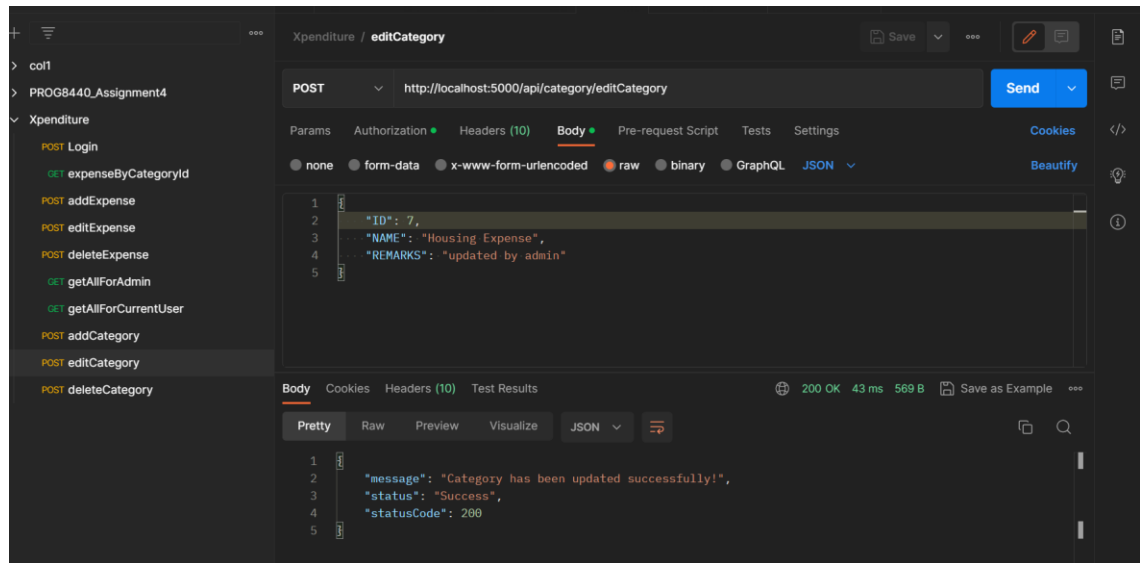


```
Terminal Local x + v
(venv) PS D:\Study\Conestoga\Sem1\Python\Project\Xpenditure\Code\backend\test> pytest test_cases.py
===== test session starts =====
platform win32 -- Python 3.11.1, pytest-7.3.1, pluggy-1.0.0
rootdir: D:\Study\Conestoga\Sem1\Python\Project\Xpenditure\Code\backend\test
collected 9 items

test_cases.py ..... [100%]

===== 9 passed in 18.82s =====
(venv) PS D:\Study\Conestoga\Sem1\Python\Project\Xpenditure\Code\backend\test>
```

- o used **postman** for **API testing**.



- o We have also performed **manual testing**.