

Accounting Web Application (Python Django Application) Github link - <https://github.com/vivekmogalla/AccountingIsland/tree/master/AccountingWorld>

This is an accounting web application designed to help users manage their financial transactions, track their profit and loss, and generate balance sheets and cash flow statements.



Features

- **User Authorization: ****
 - Secure user registration with email confirmation.
 - Login functionality with authentication checks.
 - Logout feature for user sessions.
 - Customized password reset functionality for enhanced security.
- Transaction Management:**
 - Add, edit, and delete financial transactions.
- Profit and Loss Tracking:**
 - Effortlessly Monitor your sales, expenses, and track overall profit/loss.
- Balance Sheet:**
 - Gain insights into your financial health by viewing assets, liabilities, and equity.
- Cash Flow Analysis:** Analyze cash inflow and outflow for better financial planning.
 - Analyze cash inflow and outflow for better financial planning.

Getting Started

Prerequisites

Before you begin, ensure you have met the following requirements:

- Python 3.x installed
- Django installed
- A modern web browser

Installation

1. Clone the repository:

```
git clone https://github.com/vivekmogalla/AccountingWebsite.git
```

2. Navigate to the Project directory

```
cd AccountingWorld
```

3. Install python virtual environment using pip command

```
pip install virtualenv (same for linux and windows)
```

4. Create a Python virtual environment

```
virtualenv env (same for linux and windows)
```

5. Activate the virtual environment

```
cd env/scripts/.activate (windows)  
source env/bin/activate (Linux)
```

6. Install the required Python packages

```
pip install -r requirements.txt
```

7. Run database migrations

```
python manage.py migrate
```

8. Create a superuser account (for admin access)

```
python manage.py createsuperuser
```

9. Start the development server:

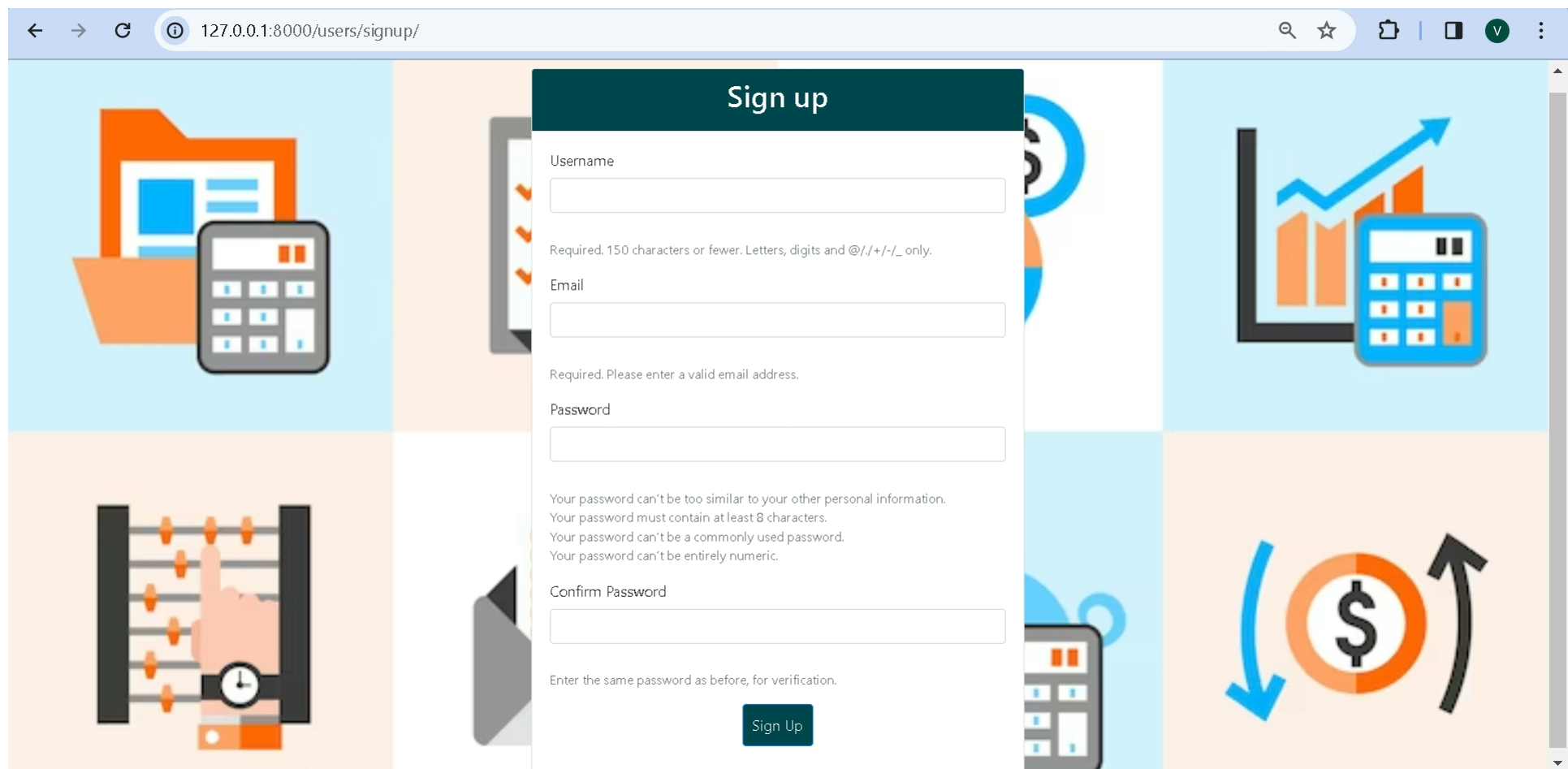
```
python manage.py runserver
```

Usage

User Authentication

Signup

1. Navigate to the signup page.



The screenshot shows a web browser window with the address bar displaying "127.0.0.1:8000/users/signup/". The main content area features a "Sign up" form with a dark green header. The form contains the following fields and instructions:

- Username:** A text input field. Below it, the text reads: "Required. 150 characters or fewer. Letters, digits and @/./+/-/_ only."
- Email:** A text input field. Below it, the text reads: "Required. Please enter a valid email address."
- Password:** A text input field. Below it, the text reads: "Your password can't be too similar to your other personal information. Your password must contain at least 8 characters. Your password can't be a commonly used password. Your password can't be entirely numeric."
- Confirm Password:** A text input field. Below it, the text reads: "Enter the same password as before, for verification."

A dark green "Sign Up" button is located at the bottom center of the form. The background of the page is a light blue and orange grid with various business-related icons, including a folder, a calculator, a bar chart, a hand pointing at a screen, and a dollar sign with arrows.

2. Fill out the required fields, including your email and password.

127.0.0.1:8000/users/signup/

Sign up

Username

Required. 150 characters or fewer. Letters, digits and @/./+/_ only.

Email

Required. Please enter a valid email address.

Password

Your password can't be too similar to your other personal information.
Your password must contain at least 8 characters.
Your password can't be a commonly used password.
Your password can't be entirely numeric.

Confirm Password

Enter the same password as before, for verification.

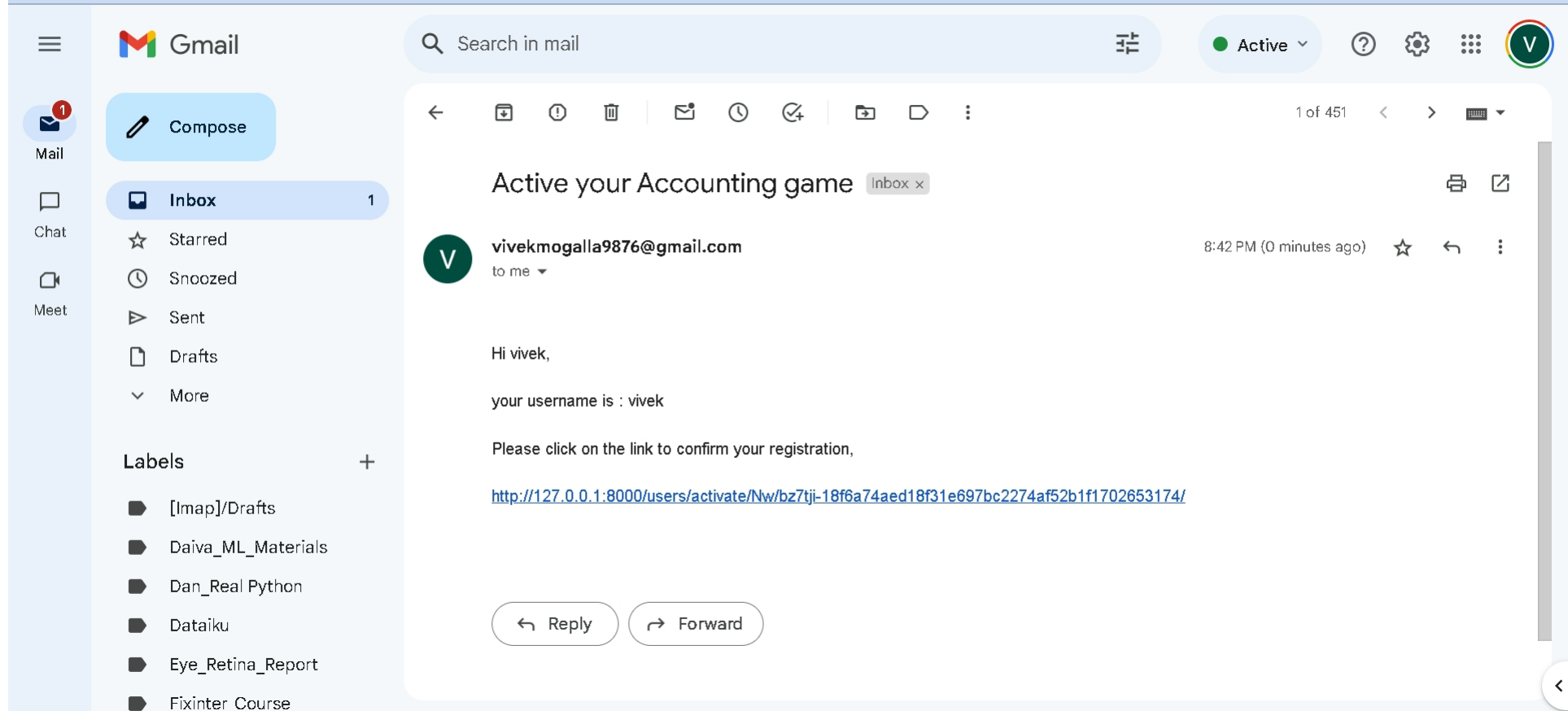
3. Submit the form.

127.0.0.1:8000/users/signup/

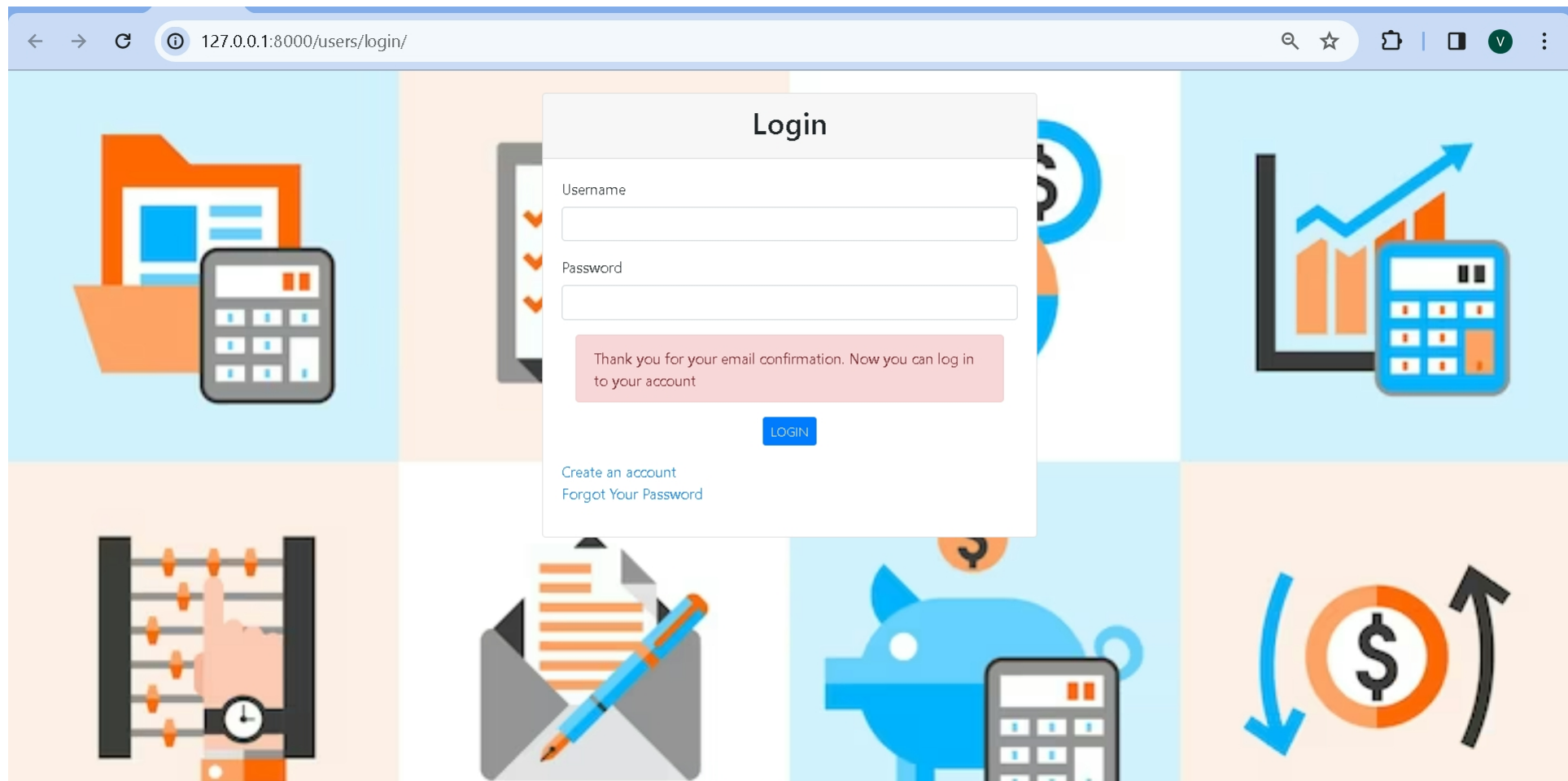
Email Confirmation

Please confirm your email address to complete the registration.

4. Check your registered email for an activation link.

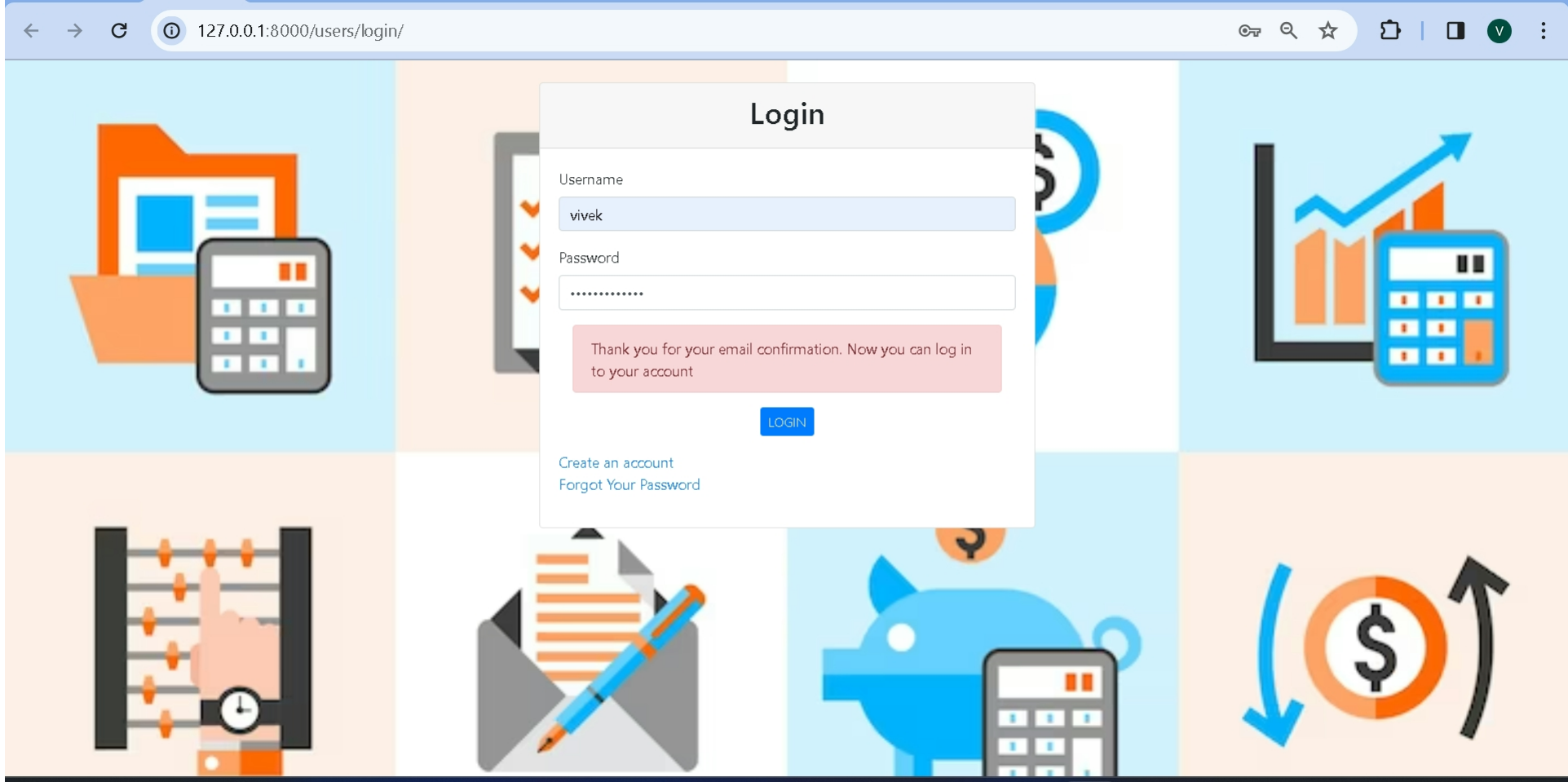


5. Click on the activation link to activate your account.



Login

1. Visit the login page.
2. Enter your username and password.



3. Click the login button.

4. If your account is activated, you will be redirected to the dashboard.

127.0.0.1:8000/dashboard/

Home Transactions list [Reset data](#)

Welcome vivek [Logout](#)

Add Transaction

Enter the transaction date (dd-mm-yyyy)

dd-mm-yyyy

Select an account variable:

Sales on cash

Enter the amount:

Add Transaction

Profit/Loss

Category	Amount
Sales:	0.0
Expenses:	0.0
Profit/Loss:	0.0

Balance Sheet

Category	Amount
Assets - Bank	0.0
Assets - Debtors	0.0
Total Assets	0.0
Liabilities - Loan	0.0
Liabilities - Creditors	0.0
Liabilities - VAT	0.0
Liabilities - Equity	0.0
Equity - Retained Earnings	0.0
Total Liabilities and Equity	0.0

Cashflow Data

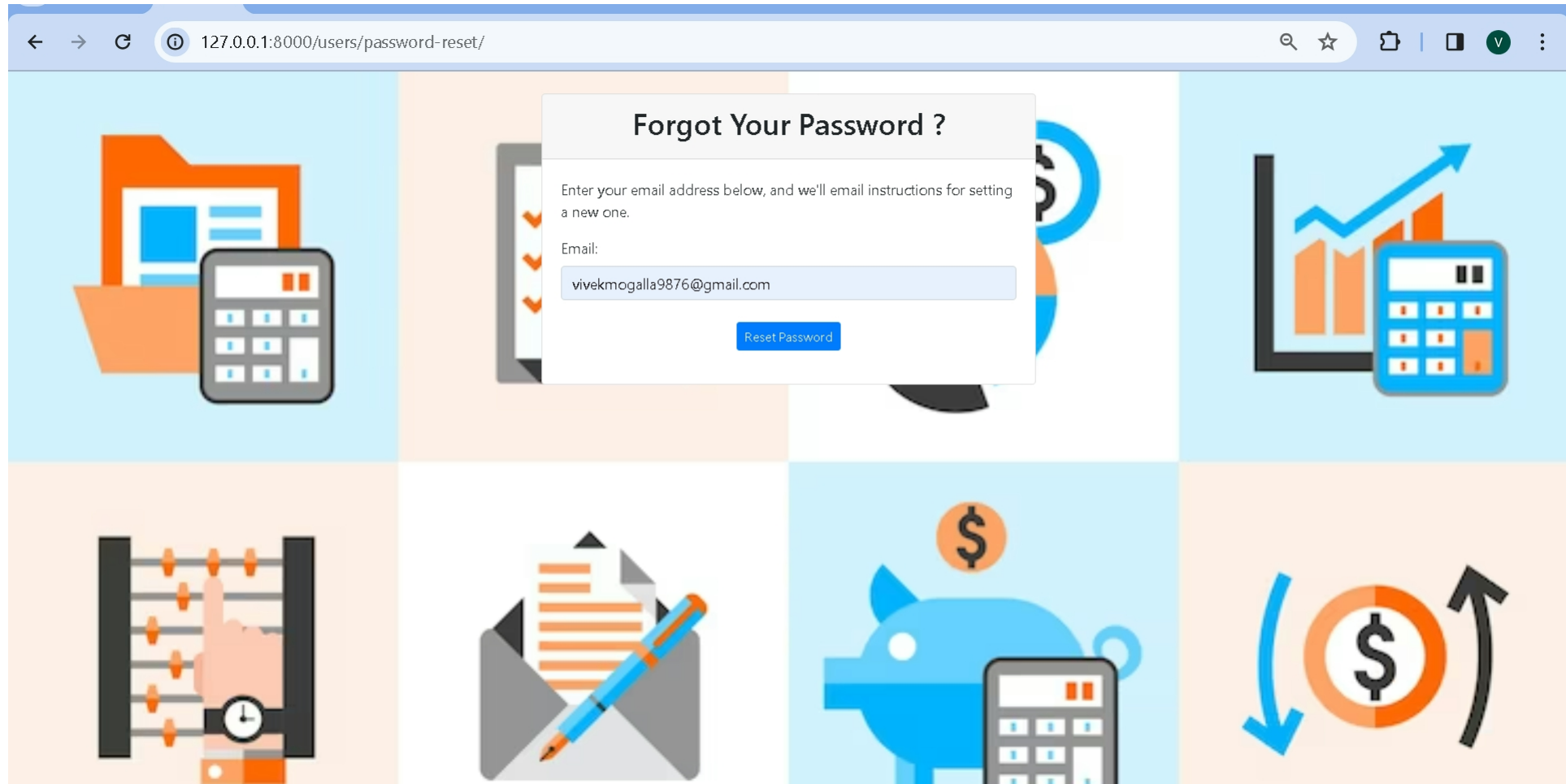
Related Account	Debit	Credit	Total
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Logout

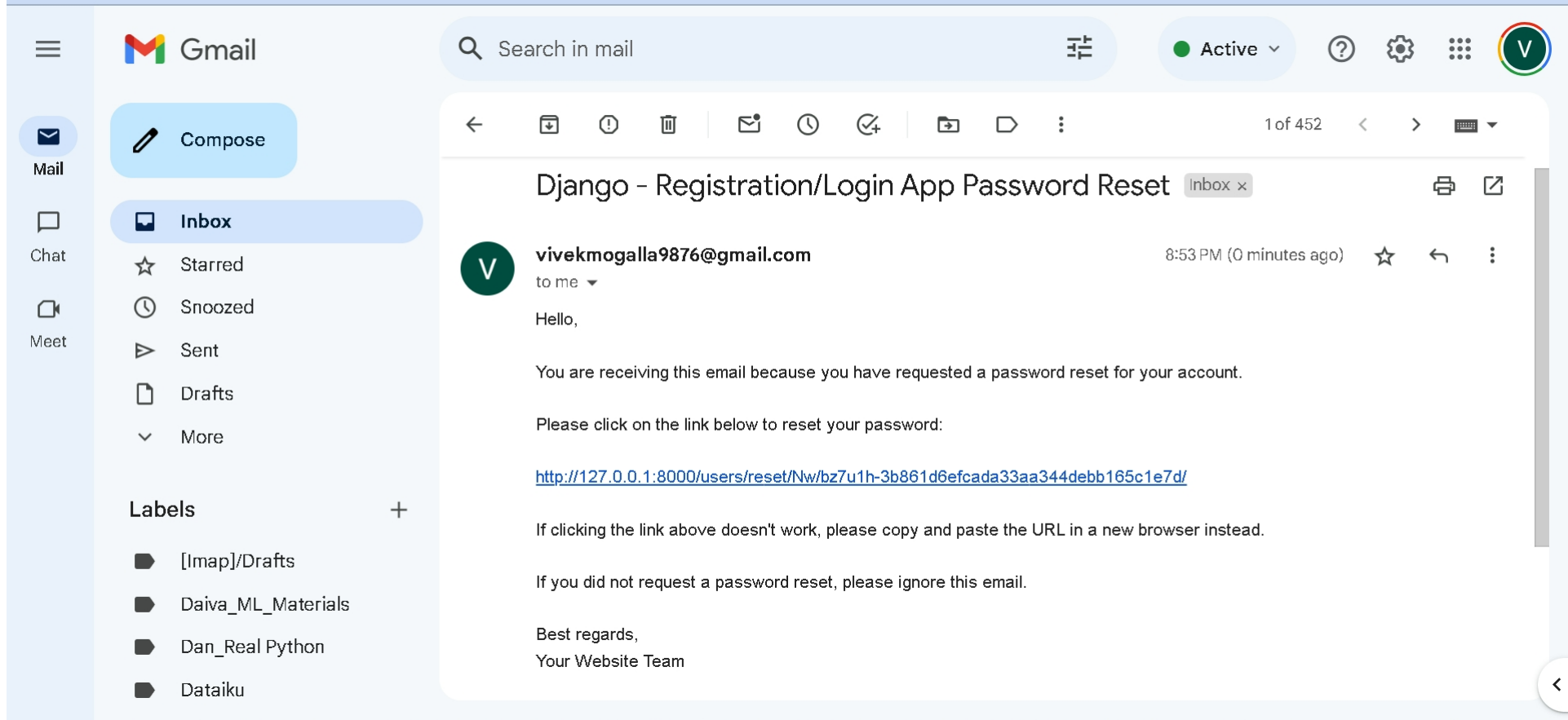
1. To logout, click on the logout option in the dashboard or visit the logout page.
2. You will be logged out, and redirected to the login page.

Password Reset

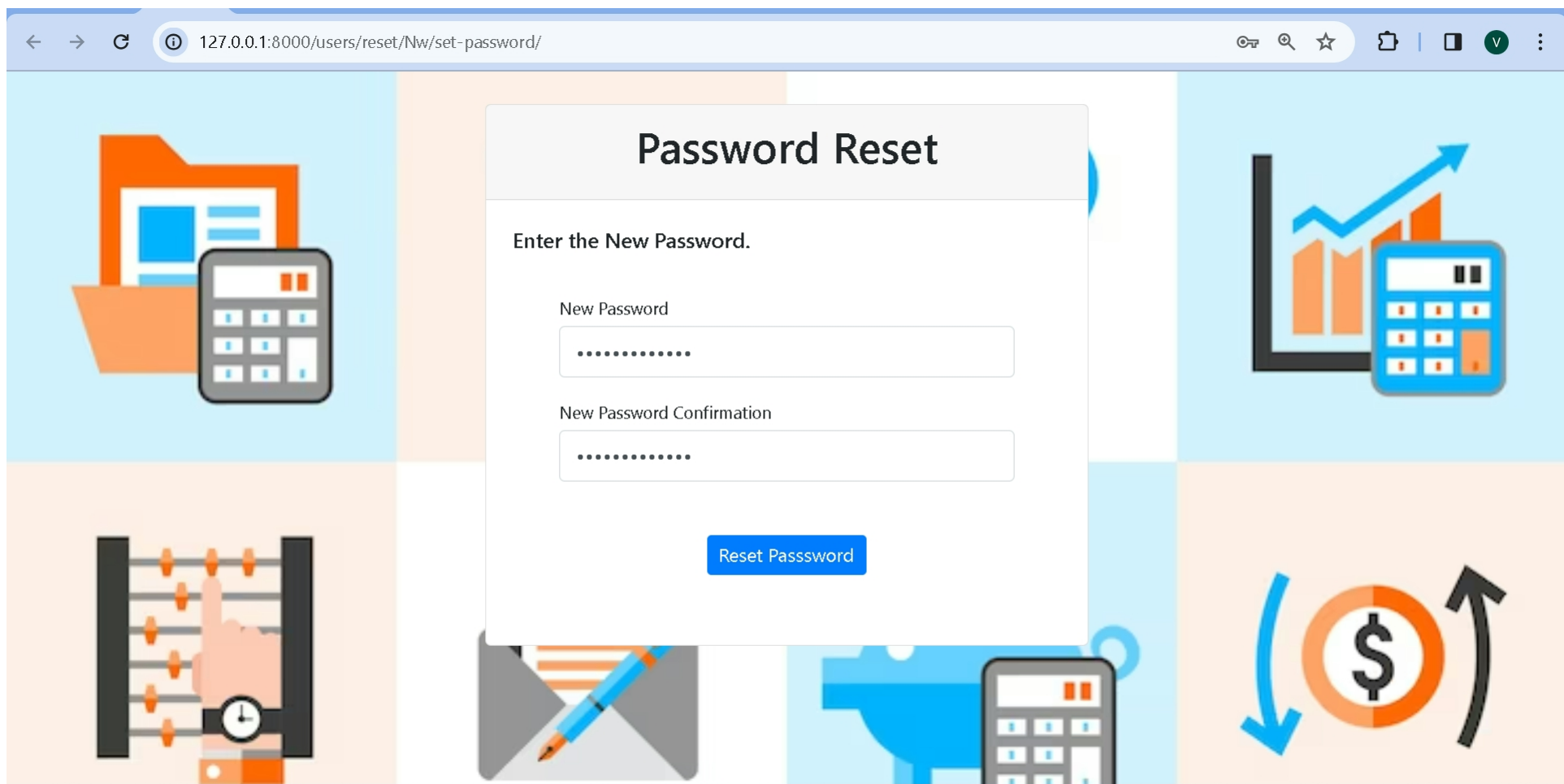
1. If you forget your password, click on the "Forgot Password" link on the login page.



2. Enter your email address.
3. Check your email for a password reset link.



4. Click on the link to reset your password.



Note: Ensure that your account is activated before logging in. Activation links are sent to your registered email during the signup process.


Financial Management

Adding Transactions

1. Go to the 'Add Transactions' page.

Add Transaction

Enter the transaction date
(dd-mm-yyyy)

Select an account variable:

Enter the amount:

2. Fill in the type, date, and amount for the new transaction.

[Home](#) [Transactions list](#)

Add Transaction

Enter the transaction date
(dd-mm-yyyy)

Select an account variable:

Enter the amount:

3. Submit the form to save the transaction.

Viewing Transactions

1. Visit the 'Transaction List' page from the dashboard, and navigate through the list using the pagination feature.

127.0.0.1:8000/dashboard/transactions/list/?page=1

Home Transactions list [Reset data](#) Welcome vivek [Logout](#)

Journal

Account [Search](#) [Reset](#)

Transaction ID	Date	Account	Debit	Credit	Related Account
9	Dec. 15, 2023	Sales	0.0	5,000.0	Debtors
9	Dec. 15, 2023	VAT	0.0	1,000.0	Sales
9	Dec. 15, 2023	Debtors	6,000.0	0.0	Sales
10	Dec. 15, 2023	Expenses	1,027.5	0.0	Bank
10	Dec. 15, 2023	VAT	205.5	0.0	Sales
10	Dec. 15, 2023	Bank	0.0	1,233.0	Expenses
11	Dec. 15, 2023	Sales	0.0	5,000.0	Bank
11	Dec. 15, 2023	VAT	0.0	1,000.0	Sales
11	Dec. 15, 2023	Bank	6,000.0	0.0	Sales
12	Dec. 15, 2023	Expenses	8,333.3	0.0	Bank

[Go back to Dashboard](#)

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2. Browse and filter transactions based on the selected account.

127.0.0.1:8000/dashboard/transactions/list/?account=Sales

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Journal

Sales [Search](#) [Reset](#)

Transaction ID	Date	Account	Debit	Credit	Related Account
9	Dec. 15, 2023	Sales	0.0	5,000.0	Debtors
11	Dec. 15, 2023	Sales	0.0	5,000.0	Bank

[Go back to Dashboard](#)

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Resetting Transactions

1. Use the 'Reset Transactions' feature to clear all transactions

127.0.0.1:8000/dashboard/

Home Transactions list **Reset data** Welcome vivek Logout

Add Transaction

Enter the transaction date (dd-mm-yyyy)

dd-mm-yyyy

Select an account variable:

Sales on cash

Enter the amount:

Add Transaction

Profit/Loss

Category	Amount
Sales:	0.0
Expenses:	0.0
Profit/Loss:	0.0

Balance Sheet

Category	Amount
Assets - Bank	0.0
Assets - Debtors	0.0
Total Assets	0.0
Liabilities - Loan	0.0
Liabilities - Creditors	0.0
Liabilities - VAT	0.0
Liabilities - Equity	0.0
Equity - Retained Earnings	0.0
Total Liabilities and Equity	0.0

Cashflow Data

Category	Amount
...	...

Viewing Financial Summary

1. Check the 'Balance Sheet' for insights into bank balance, debtors, VAT, etc.
2. Analyze 'Cash Flow' to understand cash inflow and outflow.
3. Calculate profit/loss with the 'Calculate Profit/Loss' function.
4. All the above 3 options are displayed in the Dashboard page as shown below.

127.0.0.1:8000/dashboard/

Home Transactions list [Reset data](#) Welcome vivek [Logout](#)

Add Transaction

Enter the transaction date (dd-mm-yyyy)

dd-mm-yyyy

Select an account variable:

Sales on cash

Enter the amount:

[Add Transaction](#)

Profit/Loss

Category	Amount
Sales:	10,000.0
Expenses:	10,389.2
Profit/Loss:	-389.2

Balance Sheet

Category	Amount
Assets - Bank	-6,467.0
Assets - Debtors	6,000.0
Total Assets	-467.0
Liabilities - Loan	0.0
Liabilities - Creditors	0.0
Liabilities - VAT	-77.8
Liabilities - Equity	0.0
Equity - Retained Earnings	-389.2
Total Liabilities and Equity	-467.0

Cashflow Data

Related Account	Debit	Credit	Total
Expenses	0.0	12,467.0	-12,467.0
Sales	6,000.0	0.0	6,000.0

Note: Make sure you are logged in to access these features. Some actions may require specific permissions based on user roles.