

20CS312 MINI PROJECT PERSONAL EXPENSE TRACKER

A MINI PROJECT REPORT

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INTERNAL EXAMINER

EXTERNAL EXAMINER

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ABSTRACT

Personal Expense Tracker (PET) is a daily expense management software which is specially designed to keeping track of their daily expenditure with an easy and effective way through a computerized system which tends to eliminate manual paper works. We have tried to design the project in such a way that users may not have any difficulty in using this application without much effort. This software is very useful for financial management. Users can track their expenses on a daily, monthly, or yearly basis. They can also check the expenses in a different category from food to clothing. Users can also set a budget so that when they cross the limit they will get the notification. This will help the user to keep track of his expenses made by him/her on day-to-day basis and know what expense he/she has made. We are using python as front and backend and SQL for database management.

LIST OF FIGURES

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LIST OF ABBREVIATIONS

S.NO	ABBREVIATION	EXPANSION
1.	OS	Operating System
2.	DB	Data Base
3.	E-R	Entity Relationship diagram
4.	SQL	Structured Query Language

CHAPTER 1

INTRODUCTION

1.1 Problem Statement

We know that many people will make use of their salary in order to purchase their daily needs and also in order to fulfil their desire but often end up in not keeping track of their expenditure or expense which may lead lack of savings. So our approach is to create a console application in order to help people maintain or keep a track over their expense and prevent them from spending more and maintain a basic amount to be kept as savings for future use.

1.2 Project Scope and Objective:

1.2.1 Scope of the Project:

The scope of the project is to address the above mentioned issue. Our solution for the above problem is that we develop an expense tracking system which can be helpful in tracking the expense of the user about his purchase and expenses. So he would have an idea over the expenses he made.

1.2.2 Objective of the Project:

Our main objective is to provide the apt console application for the user to have a track over his expenses and get the report of his expenses.

CHAPTER 2

OVERALL DESCRIPTION

2.1 Project Specification:

Our project is a Expense Tracker and it contains all the information about a person's expense. We named our application as “PET (Personal Expense Tracker)”

There are four sections in our application, they are

- SIGN UP PAGE
- LOGIN PAGE
- ADDING OF AN EXPENSE
- SHOWING ALL THE EXPENSES
- SHOWING ALL THE EXPENSES BY DATE
- SHOWING ALL THE EXPENSES BY MONTH

Initially when you login into our application, you will get the home page which contains the above mentioned four section. You can come back to the home page from any other page of the website.

The second step is that you will be given an option '**Add Expense**' to add an expense where you can select the desired date you made an purchase and also provide the item you have purchased,

Then you are given an option the select '**Show All Expense**' where it will display all the expense the user have made till now and provide a brief account of each and every expense you have made.

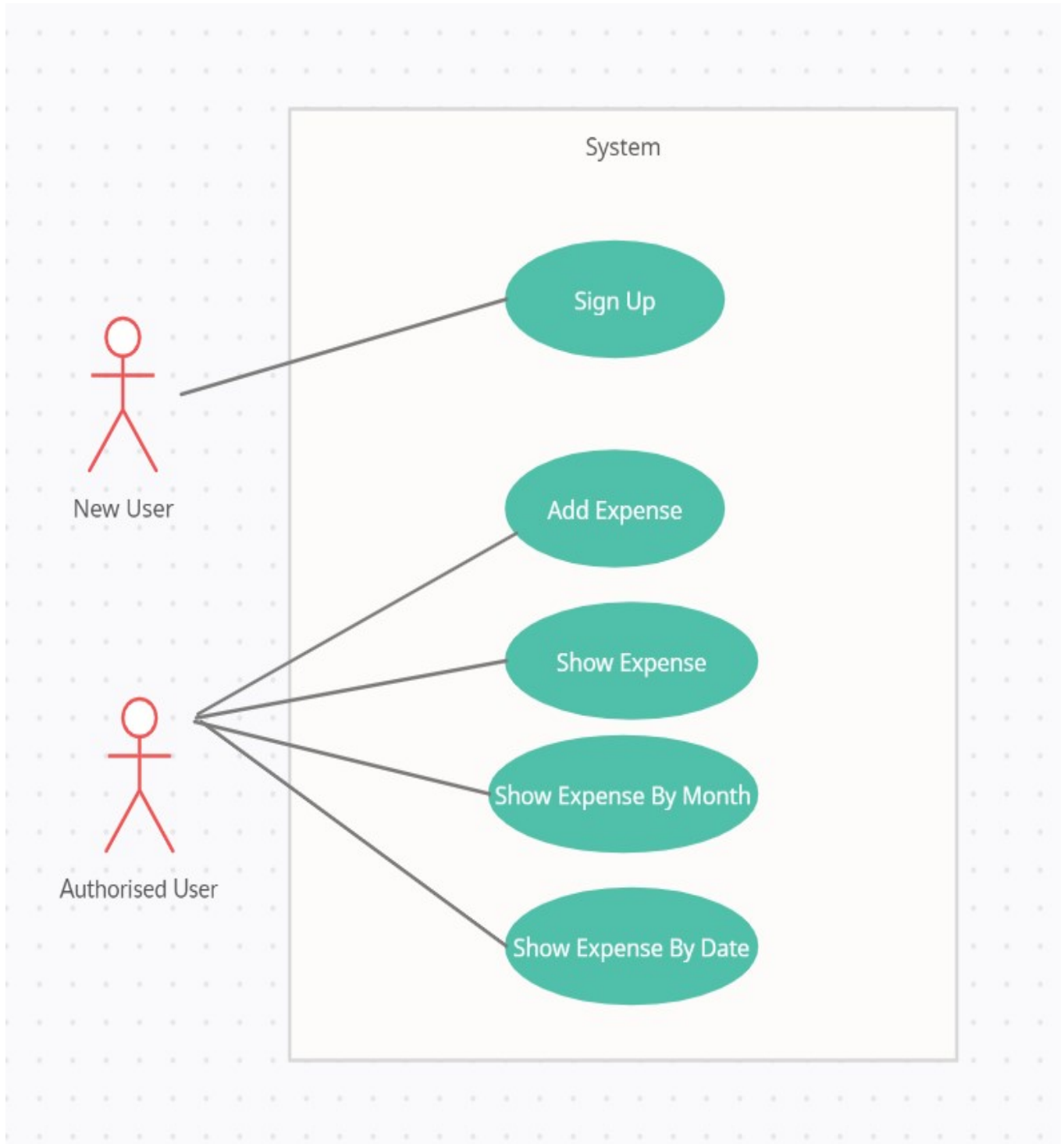
The third key given to you is to provide the expense information a user have made in that particular month by just accessing the button '**Show Expense by Month**'.

The user is also provided with an opportunity to visualize the expense he has made over a particular date by using the '**Show Expense by Month**'.

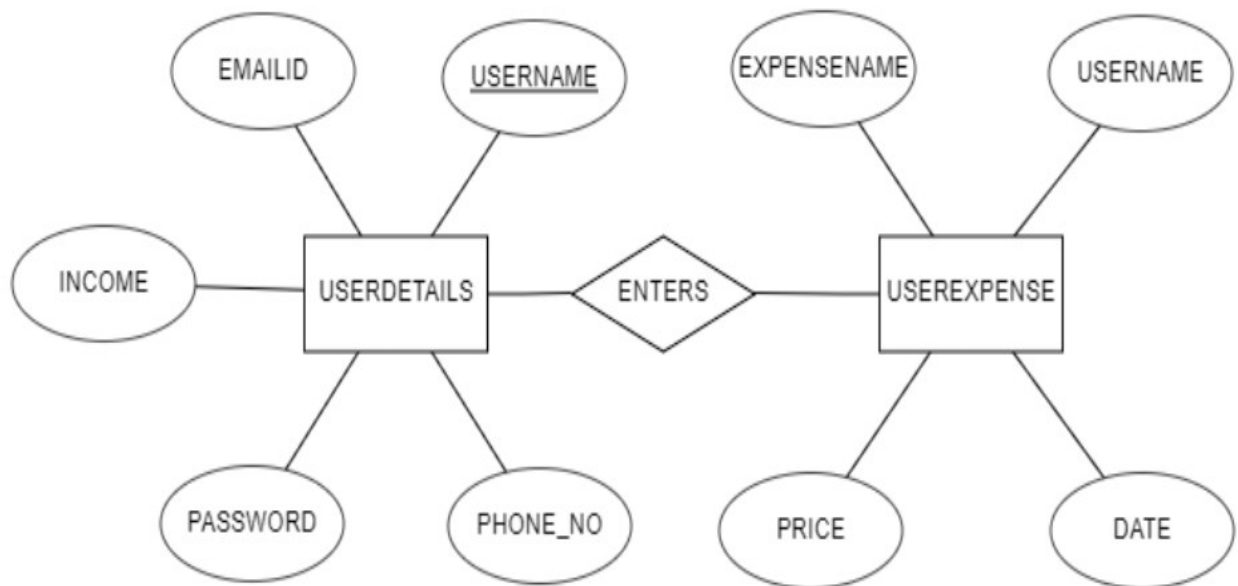
Once the user is done using this application he/she can use the '**Exit**' button to exit from the application

2.2 USE CASE DIAGRAM

This use case diagram describes the interaction between the user and the application.



2.2 E -R DIAGRAM:



The Above E-R Diagram explain about the relation between user and his expense where the user details and user expense is an entity. We can see that the user details and user expense is a key attribute. The user details entity has the attributes of his username which is a primary key, email ID ,income ,password ,and in the user expense it has the attributes of username, expense name, date and price .Also there is a relation between user details and user expense it is the ‘enters’.

CHAPTER 3

EXTERNAL INTERFACE REQUIREMENTS

3.1 USER INTERFACE:

Any popular OS that will allow the use of this application to view and access the function. In order to make the user comfortable, we have displayed all the main details in our home page itself.

3.2 HARDWARE INTERFACE:

The application can be accessed through computer or laptop devices with proper system requirements along with good windows version and storage space.

3.3 SOFTWARE INTERFACE:

The software interfaces which you can use to access our application is any version of windows that can run Python and it's modules.

CHAPTER 4

TESTING

4.1 TEST PLAN:

Scope - The scope of the testing is to make the user to go through the console application with ease.

Test Deliverables- To provide the data of the expense made by the user.

4.2 TEST PROCEDURE:

The test plan is shown below

Name of the test	Things to be tested
API testing	User's comfort with application should be tested.
Unit testing	Every function in the application should be tested.
Integration testing	Connection between the function in the application are tested.
System testing	The functional flow of the functions are tested.

4.3 TEST CASES:

TEST CASE ID	TEST NAME	EXPECTED RESULTS	ACTUAL RESULTS	STATUS
1.	While opening ,the console application should open	Application should open	As expected	Pass
2.	Options should be opened while clicking	Options should open	As expected	Pass
3.	On pressing add Expense	Expense must be added	As expected	Pass
4.	On pressing Show Expense	Expense must be listed	As expected	Pass
5.	On clicking the Show Expense by Month	The button show be able to display expense by month	As expected	Pass

CHAPTER 5 FUTURE ENHANCEMENTS

- In future, we are trying to make it a web application and also a mobile application etc.
- We are also trying to link the credit card or debit card of a user so any swipe made by him is automatically being registered in the user's database
- We also like to block the user from further purchase when his income is only 10% of his salary.
- Providing confirmation whether he is making the purchase or someone else is.
- Allowing multiple system login access.

CHAPTER 6

CONCLUSION

In conclusion, our Expense Tracker will be helpful in tracking the expenses of the registered user and will provide him with the report of the expenses he had made during particular month and date. By this report, the user can manage his/her expenses in a proper way. It helps many people to spend their earnings properly. People, who faces problem at month end can get alert by using this application.

SCREENSHOTS

PET Login or Signup

Personal Expense Tracker

Enter username:- Aswin_P

Enter password:- ****

Login

or

New user, click sign up button

Sign up

Fig 1.Login/Sign Up Page

Create your account

PERSONAL EXPENSE TRACKER

Enter username :-

Enter mail-id :-

Enter phone number :-

Enter income per month :-

Enter password :-

Confirm password :-

Submit

Reset

Fig 2. Sign Up Page

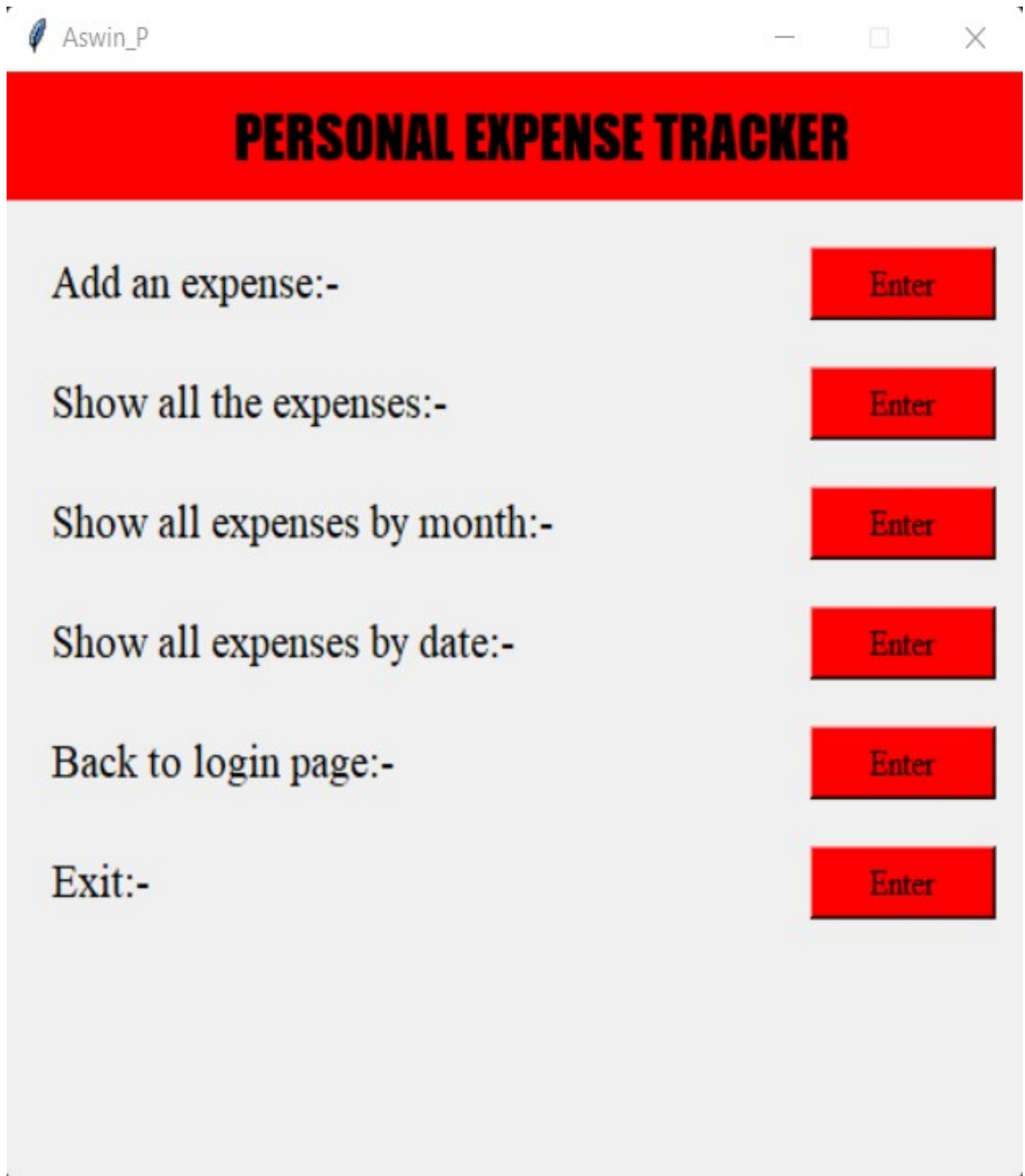


Fig 3.Home Page

Aswin_P

Personal Expense Tracker

Enter expense name :-

Enter price(in Rs.):-

Select date :-

Fig 4. Adding of An Expense

Expense details

Personal Expense Tracker

S.No	Date	Expense name	Price
1.	2021-12-08	Food	2000
2.	2021-12-12	RENT	14000
3.	2021-12-13	Food	500
4.	2021-12-13	EMI	2200
5.	2021-12-13	EMI	3000
6.	2021-12-15	Movies	500
7.	2021-12-15	WIFI	500

Back Logout

Fig 5. Showing All Expenses

Enter month

Personal Expense Tracker

Enter year :-

Enter month :-

Fig 6. Selecting the month and year to display the expense of that particular month

Expense details

Personal Expense Tracker

S.No	Date	Expense name	Price
1.	2021-11-10	Gas bill	950
2.	2021-11-19	WIFI	1000
3.	2021-11-22	Food	250
4.	2021-11-22	Shopping	250
5.	2021-11-25	Food	2000
6.	2021-11-25	WIFI	999

Overall Expense

S.No	Expense name	Price
1.	Food	2250
2.	Shopping	250
3.	Gas bill	950
4.	WIFI	1999

Back Logout

Fig 7. Displaying the expenses of that particular month

Enter month

Personal Expense Tracker

Select the date:-

29/11/2021

Display

Fig 8. Selecting the Date to display the expense of the that particular date

Enter month

Personal Expense Tracker

Date	Expense	Price
2021-11-25	Food	2000
2021-11-25	WIFI	999

S.No	Expense	Price
1.	Food	2000
2.	WIFI	999

Back

Logout

Fig 9. Displaying the Expenses of that particular date