Mini Project

Topic : Expense Manager

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Team Members : Rakshit Shah
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Problem Statement

To create a Java based Program for managing day to day expenses allowing user to keep a track of his/her Debited and Credited Amount on a daily basis, monthly basis and even yearly basis. To Notify user if he/she crosses a threshold amount and thus helping them in maintaining their balance and Expenses in a particular boundary.

Abstract :

According to a 2019 paper by Sumit Agarwal, Pulak Ghosh, Jing Li and Tianyue Ruan available on Asian Bureau of Finance and Economic Research, the advent of digital payments have led to overspending, especially among Indians. While curtailing digital transactions isn't the answer, monitoring one's spending could definitely help.

With this aim in mind, we have planned a Java-encoded application to keep track of the user's daily, monthly as well as yearly debited and credited amount. The program would also feature a threshold that the user can set and adjust, spending above which would be notified to the user. On the backend, JDK 8 would be used for Java implementation, with MySQL service for database and JDBC to connect the database. The user interface is to be designed using Java Swing.

In conclusion, we intend for our program to be a financial management assistant, especially for the young and the millennial cluster. We believe that the app has the potential to be a success in the market, especially among the young and millennial dynamic.

Introduction :

The main purpose of the Program is to develop and maintain an expense manager

Program enables users to keep track of their expenses.

Expense Management automation is the means by which - an organization or person can significantly track their expenses

Improve management control with calculating and processing corporate or personal expenses - Automated solution typically provides the ability to.

Objective

- Reduce Paper Receipts.
- Get notified on spending a particular amount.
- Capturing time data for analysis of expenditure.
- Minimise the risk of losing track of your expense.
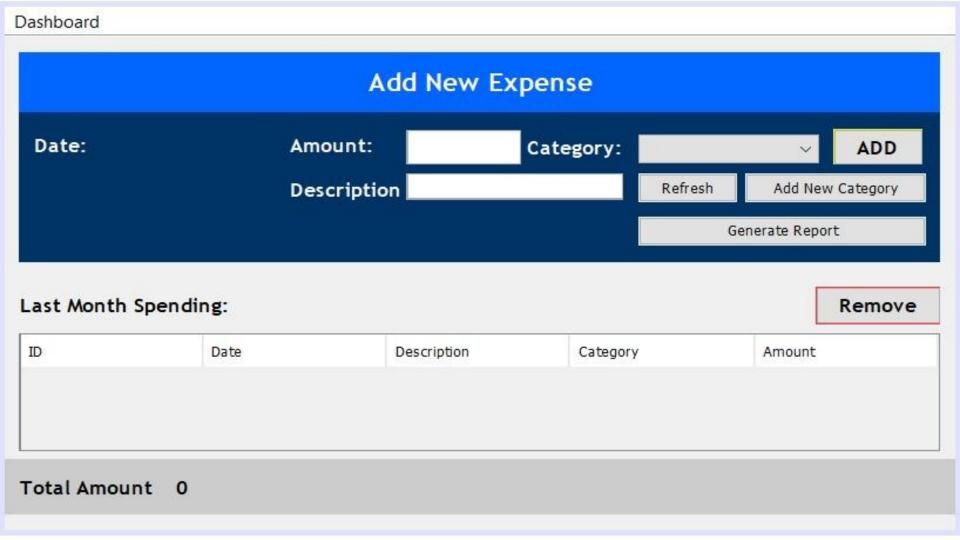- Get a report on your daily, monthly and yearly expenditure.

BENEFITS:

Improving Finance Management Control

Import & Export Amount activities

Expense Management

Reducing Paper work
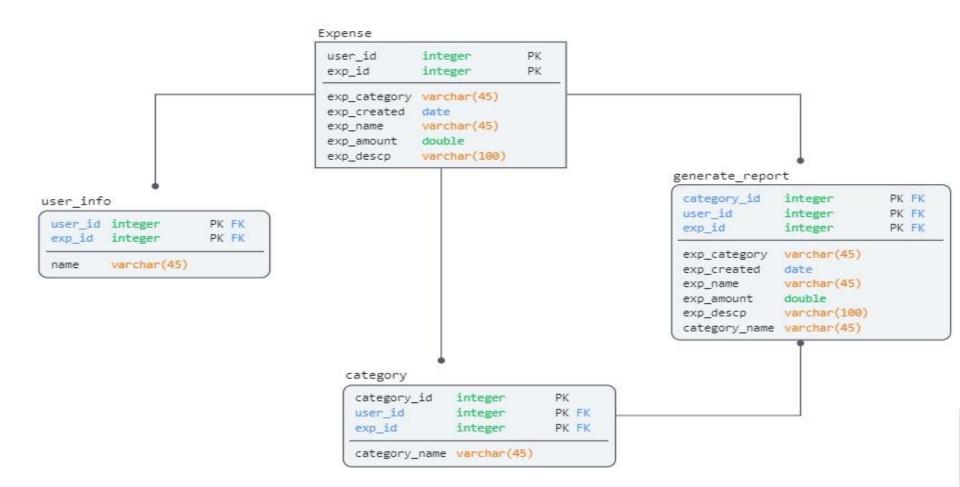
Generate expenditure By different categories

Technologies :

- Programming language : Java
- Database : MySql
- JDBC (for connecting to Database)
- User Interface : Java Swing
- Tools :
  - NetBeans
  - Eclipse IDE
  - Visual Studio Code Editor

FrontEnd

Add New Expense

Date:

Amount: [   ]   Category: [∨]   **ADD**

Description [   ] | Refresh | | Add New Category |

| Generate Report |

Last Month Spending: Remove

ID	Date	Description	Category	Amount

Total Amount   0

BackEnd

Expense

user_id	integer	PK
exp_id	integer	PK
exp_category	varchar(45)	
exp_created	date	
exp_name	varchar(45)	
exp_amount	double	
exp_descp	varchar(100)	

user_info

user_id	integer	PK FK
exp_id	integer	PK FK
name	varchar(45)	

generate_report

category_id	integer	PK FK
user_id	integer	PK FK
exp_id	integer	PK FK
exp_category	varchar(45)	
exp_created	date	
exp_name	varchar(45)	
exp_amount	double	
exp_descp	varchar(100)	
category_name	varchar(45)	

category

category_id	integer	PK
user_id	integer	PK FK
exp_id	integer	PK FK
category_name	varchar(45)	

Gantt Chart

GANTT CHART TEMPLATE

| PROJECT TITLE | Expense Manager |
| PROJECT GUIDE | Prof. Mayuri Jain |

| COMPANY NAME | SE COMPS Group 3 |
| DATE | 7-21-20 |

WBS NUMBER	TASK TITLE	TASK OWNER	START DATE	DUE DATE	DURATION(Weeks)	PCT OF TASK COMPLETE
1	**Project Conception and Initiation**					
1.1	Problem search	Rakshit,Tejas,Het,Vikas	7-21-20	8-4-20	3	100%
1.1.1	Problem finalization	Rakshit,Tejas,Het,Vikas	7-21-20	8-4-20	3	100%
1.2	Project Title	Rakshit,Tejas,Het,Vikas	7-21-20	8-4-20	3	100%
1.3	Abstract	Rakshit	8-23-20	8-30-20	1	100%
1.4	Problem Definition	Tejas	8-23-20	8-30-20	1	100%
1.5	Objectives	Het	8-23-20	8-30-20	1	100%
1.6	Technology stack	Rakshit,Tejas,Het,Vikas	8-23-20	8-30-20	1	100%
1.7	Benefits & Application	Vikas,Rakshit	8-23-20	8-30-20	1	100%
2	**Project Design**					
2.1	Proposed System	Rakshit,Tejas,Het,Vikas	9-26-20	10-3-20	1	70%
2.2	Design(Flow Of Modules)	Rakshit,Tejas,Het,Vikas	9-26-20	10-3-20	1	50%
2.3	Data Flow Diagram	Het	9-26-20	10-3-20	1	50%
2.4	Modules				1	0%
2.4.1	Module-1				1	0%
2.4.2	Module-2				1	0%
2.4.3	Module-3				1	0%
2.4.4	Module-4				1	0%
2.5	Preparation Of Report	Rakshit,Tejas,Het,Vikas	10-19-20	11-21-20	4	80%

Data Flow Diagram

Future Scope

1. Providing a LogIn option and thus enabling multi-user program.
2. Expense manager can be used on professional level in future helping CEOs/Managers to send or remove funds immediately with one click. They can control employee purchases by setting limits.
3. They will get a real time visibility of spending of each employee as the employee record will be available with the higher authority.
4. Employees just have to add their expense once and it gets captured in the system and they can show it to the company for any reimbursement or allowances. Submission of expense reports is quick and hassle free.
5. Accounting/Finance/HR teams can easily track all expenses and match these with the employee record. They can compare the actual spend with the budgeted spend and plan the future accordingly.
6. Expense management program will setup spending rules for your staff, and see larger reports that give you the kind of information you need to cut down on expenses.

THANK YOU !!!