

Mini Project

Topic : Expense Manager

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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.

Introduction :



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
<hr/>		
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
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name	varchar(45)	

generate_report

category_id	integer	PK FK
user_id	integer	PK FK
exp_id	integer	PK FK
<hr/>		
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
<hr/>		
category_name	varchar(45)	

Technologies :

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

THANK YOU !!!