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R.H.Sapat College of Engineering Management
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DEPARTMENT OF COMPUTER ENGINEERING

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**A Mini Project Report on
“Expense Tracker”**

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1. Abstract

In today's busy and expensive life we are in a great rush to make money. But at the end of the month we broke off. Also we often go on trips and movies with friends, we end up paying for each other at different points of our trips and usually end up doing mental calculations of who paid what and then sharing the expense. Many a times we unknowingly spend money on little and unwanted things. So, we have come over with the idea to track our earnings. **“Expense**

Tracker” aims to help everyone who are planning to know their expenses and save from it. Expense Tracker is a web based application which users can operate and update their daily expenses and keep the track of their expenditure. Here user can define their own categories for expense type like food, clothing, rent and bills where they have to enter the money that has been spent and also can add some information in additional information to specify the expense. User can also define expense categories. User will be able to see Analysis Report of expense. Although this app is focused on new job holders, interns and teenagers, everyone who wants to track their expense can use this app.

2. Introduction

2.1 Purpose:

The main purpose of this system is maintaining the records of our expenses and incomes, analyzing and generating the reports through graphical representation based on the transactions recorded by the system which will help you to control the expense and have a good save on your expense.

2.2 Problem Statement:

At the end of the month we start to have money crisis due to lack of proper planning of our income and expenses. There is no as such complete solution present easily or we should say free of cost which enables a person to keep a track of its daily expenditure and notify them when they are going to have money shortage. To do so a person has to keep a log in a diary or in a computer, also all the calculations needs to be done by user manually which may lead in errors. Due to lack of a complete tracking system, there is a constant overload to rely on daily entry of expenditure and estimation till the end of the day.

2.3 Technology Used:

Front End: HTML (Hyper Text Markup Language) ,
CSS (Cascading Style Sheets) And JavaScript.

Back End: Php (Hypertext Preprocessor) and MySQL
(Structured Query Language).

**Software Requirements
Specification**

For

Expense Tracker System

Release 1.0

Version 1.0 approved

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13/11/2020

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Introduction

Purpose

This SRS describes the software functional and nonfunctional requirements for Expense Tracker System. This document is intended to be used by the members of the project team that will implement and verify the correct functioning of the system. Unless otherwise noted, all requirements specified here are high priorities and committed for this release.

Project Scope

The main purpose of this app is maintaining the records of the expenses and incomes, analyzing and generating the reports based on the analysis by keeping track of transactions. The graphical representation of the application is the main part of the system as it makes user easier to understand and control the expense. There are no particular criteria of users for the usage of app, this application can be used by anyone who are willing to manage their expenses and aiming to save for the future investments or analyzing the expenditure for better financial planning.

References

<https://relevant.software/blog/software-requirements-specification-srs-document>

https://www.w3schools.com/php/php_intro.asp.

<https://www.youtube.com/watch?v=5GcQtLDGXy8&t=1652s>

<https://www.w3schools.com/css/>

https://play.google.com/store/apps/details?id=com.finart&hl=en_IN&gl=US

Overall Description

Product Perspective

The product is intended to reduce the manual tracking of the expenses and shift to the digital record maintaining for quick and error free record keeping of expenses as well as incomes, in built tools for analysis and report generation with accurate results with almost no time consumption. Easy tracking of expenditure with facility to save frequent expenses so to add on one click. The

Graphical analysis of the reports helps in better interpretation of expense.

Product Features

- Track all finances.
- Set a daily budget and a savings target.
- Provision of some popular expenditure categories is made. User defined categories can also be incorporated.
- Authentication and Verification
- Provide proper analytics.
- Accuracy in calculation can be achieved.
- Addition of notes is possible.
- A user can add the bills with an option to attach the image of the bill.
- The option to attach a bill helps the user to remember when and where the payment was made.
- The graphical representations of analysis of expenses to easily understand and control the expense.
- Remainders for bill payments, expense limits, etc.
- System is provided with help desk.

User Classes and Characteristics

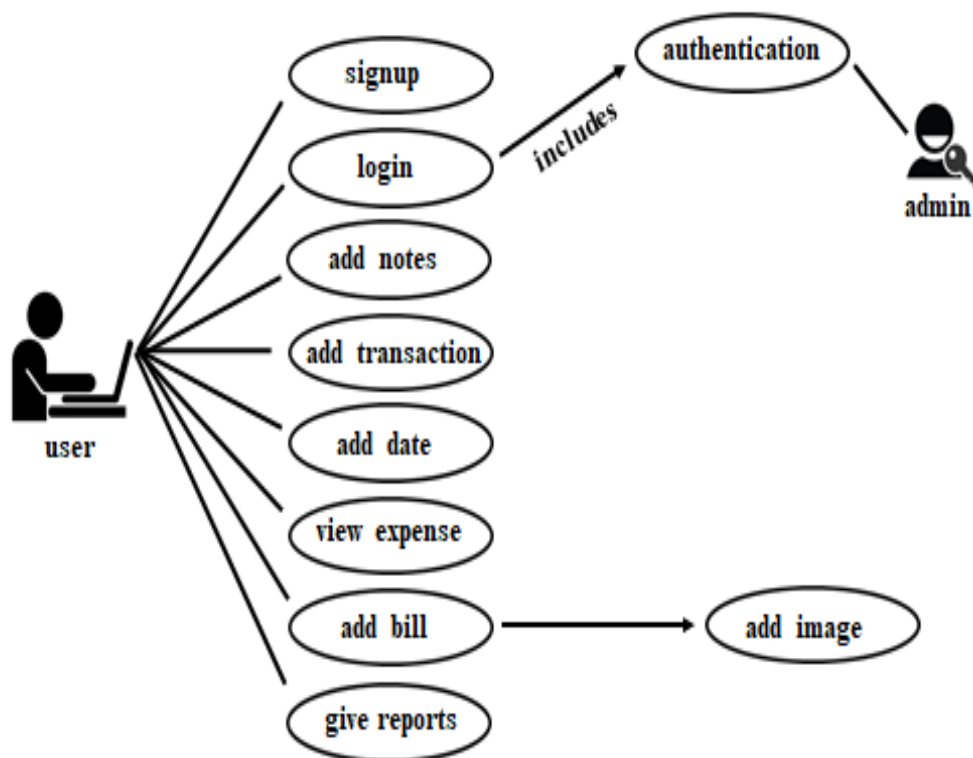
User:

1. User has to login into the system.
2. User can add expense details.
3. If user wishes, can categorize the expense.
4. User can add income.
5. User can add expenses limits.
6. User can get graphical representation according to expense.
7. User can add remainders.

Admin:

1. Regular updating of the system by fixing of bugs.
2. Admin will provide proper support if user requests for help.

➤ Use case Diagram:



Operating Environment

OE-1: The Expense Tracker System shall operate with the following Web browsers:
Microsoft Edge, Google Chrome, Mozilla Firefox, Opera Mini.

OE-2: The Expense Tracker System shall operate on a server running the current corporate approved versions of Red Hat Linux and Apache Web server.

OE-3: The Expense Tracker System shall permit user to access from any type of Internet connection.

User Documentation

1. A video tutorial will be provided to the user for proper acknowledgement about the system.
2. Help Desk Service will be provided to the user.

Assumptions and Dependencies

AS1. User has to enter each record manually.

AS2. Person who is handling system must have

Some technical knowledge.

System Features

Use Case Name:	Enter Expenses/Income.		
Created By:	JAVA	Last Updated By:	
Date Created:	16.10.2020	Date Last Updated:	28.11.2020
Actors:	User		
Description:	User accesses the Expense Tracker System and then notes his expense or income according to the category provided and then can get report of his expenses as per his choice of mode (Daily/Weekly/Monthly).		
Preconditions:	<ol style="list-style-type: none"> 1. User should register for Expense Tracker System. 2. User should login into system if already registered into system. 		
Post conditions:			
Normal Flow:	<ol style="list-style-type: none"> 1. The system will display a tutorial on how it actually works. 2. The system will offer options for transaction type: income or expense. 3. System displays different categories for adding our expense. 4. System then provides 'add more' option in case we want to add more expense details. 5. While writing details about our expense / income, system provides required fields to be entered as Amount and description. System also allows user to add images of bills or screenshots of payments done for quick reference. 6. After entering details, system displays the total expense/income along with the individual entries user makes according to specific categories. 7. If user finds any need to outlook expense record of any other date, for that convenience, system also provides calendar so that he can simply select the date and get complete details. 8. System has provision to view report in form of charts or pdf. 		

Special Requirements:	<ol style="list-style-type: none"> 1. User shall be able to delete or add the details at any time. 2. User shall be able to view all his transaction records.
Notes and Issues:	<ol style="list-style-type: none"> 1. The default date is the current date if the User is using the system. 2. There is no time constraint for using this system. It is a handy system for user anytime.

External Interface Requirements

User Interfaces

The Web pages shall permit complete navigation and transaction type and category selection using the keyboard in addition to using mouse and keyboard combinations.

Hardware Interfaces:

- Hardware Interfaces Screen resolution of at least 800X600 is required for proper and completes viewing of screens. Higher resolution will be accepted.

Software Interfaces:

- Any windows based or open source operating system.
- MY SQL Server Database.
- HTML, CSS, BOOTSTRAP.
- PHP and JAVASCRIPT.

Other Nonfunctional Requirements

Performance Requirements

There are no time restrictions for usage of this system. User can make any operations anytime.

Safety Requirements

The database may get crashed at any certain time due to virus or operating system failure.

Therefore, it is required to take the database backup.

Software Quality Attributes

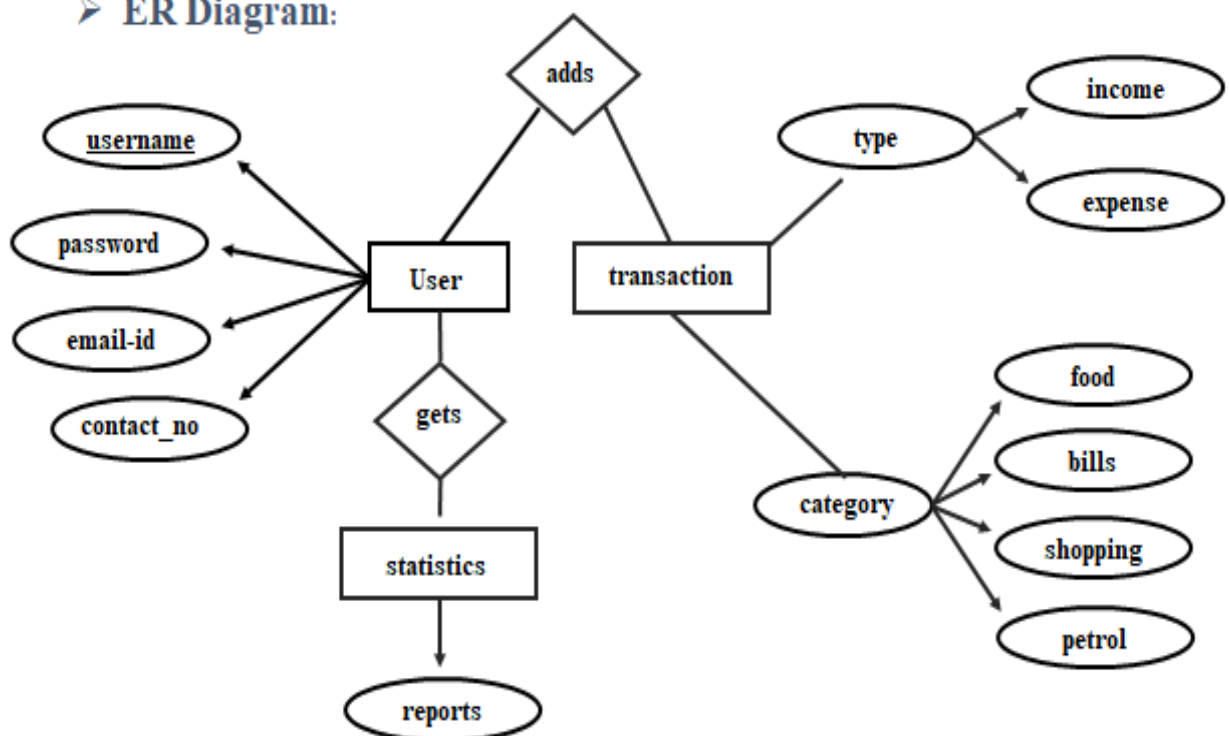
- ☐ Correctness
- ☐ Reliability
- ☐ Adequacy
- ☐ Learnability,
- ☐ Robustness
- ☐ Maintainability
- ☐ Readability
- ☐ Extensibility
- ☐ Testability
- ☐ *Efficiency*

*****&&*****

4. Design

4.1 Entity Relationship Diagram:

➤ ER Diagram:



4.2 Database Design.

The screenshot shows the phpMyAdmin interface for the 'loginsystem' database, specifically the 'Structure' tab for the 'useridentity' table. The table structure is as follows:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	ID	int(11)			No	None		AUTO_INCREMENT	Change Drop More
2	FName	varchar(200)	utf8mb4_general_ci		No	None			Change Drop More
3	MName	varchar(200)	utf8mb4_general_ci		No	None			Change Drop More
4	LName	varchar(200)	utf8mb4_general_ci		No	None			Change Drop More
5	Email	varchar(200)	utf8mb4_general_ci		No	None			Change Drop More
6	Username	varchar(200)	utf8mb4_general_ci		No	None			Change Drop More
7	Password	varchar(200)	utf8mb4_general_ci		No	None			Change Drop More

Below the table structure, there is an 'Indexes' section showing two indexes:

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Drop	PRIMARY	BTREE	Yes	No	ID	3	A	No	
Edit Drop	Unique_User	BTREE	Yes	No	Username	3	A	No	

The screenshot shows the phpMyAdmin interface for the 'loginsystem' database, specifically the 'SQL' tab for the 'useridentity' table. The SQL query executed is:

```
SELECT * FROM 'useridentity'
```

The query results show 4 rows (ID 1 to 4) with the following data:

ID	FName	MName	LName	Email	Username	Password
1	Aashutosh	Shripad	Chandratre	aashusc@gmail.com	Aashusc	ganganbote
6	Vishvesh	Satish	Gujarathi	vishvesh2222@gmail.com	Vishvesh2122	9191
7	Aditi	Dinesh	Mulay	aditimulay08@gmail.com	adi08	12341234
8	Aashutosh	Shripad	Chandratre	aashutosh@gmail.com	aashutosh	12341234

Below the query results, there is a 'Query results operations' section with options to Print, Copy to clipboard, Export, Display chart, and Create view. There is also a 'Bookmark this SQL query' section with a label input field and a checkbox to 'Let every user access this bookmark'.

4.3 GUI Design Screenshot.

The image displays two screenshots of a web application interface for an "Expense Tracker". Both screenshots feature a background image of a calculator and a document with financial calculations.

Top Screenshot: Login Form

The browser window title is "Expense Tracker | Login". The URL is `localhost/Expense%20Tracker/login.php`. The form is titled "Expense Tracker : Login Here !" and includes a red circular icon with a white person silhouette. The fields are:

- Username:
- Password:

A blue "Login" button is present, followed by the text "Don't have an account? Sign up".

Bottom Screenshot: Signup Form

The browser window title is "Expense Tracker | Signup". The URL is `localhost/Expense%20Tracker/signup.php`. The form is titled "Expense Tracker : SignUp Here !" and includes the same red circular icon. The fields are:

- Enter Email:
- Enter Your Name: First Name Middle Name Last Name
- Pick a username:
- Password:
- Confirm Password:

A blue "SignUp" button is present, followed by the text "Do you Have an account? Login".

5. Coding

6. Conclusion

We assure you that this application will help users to manage their daily expenditure. It will guide them and aware them about their daily expenses. It will prove to be helpful for the people who are frustrated with their daily budget management and to preserve the record of their daily cost which will be useful to change their way of spending money.

7. References

- <https://relevant.software/blog/software-requirements-specification-srs-document>
- https://www.w3schools.com/php/php_intro.asp.
- <https://www.youtube.com/watch?v=5GcQtLDGXy8&t=1652s>
- <https://www.w3schools.com/css/>
- https://play.google.com/store/apps/details?id=com.finnart&hl=en_IN&gl=US

THANK YOU !