Project Synopsis
on
Expense Tracker

Submitted as a part of course curriculum for

Bachelor of Technology
in
Computer Science

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DECLARATION

We hereby declare that this submission is our work and that, to the best of our knowledge and belief, it contains no material previously published or written by another person nor material which to a substantial extent has been accepted for the award of any other degree or diploma of the university or other institute of higher learning, except where due acknowledgement has been made in the text.

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CERTIFICATE

This is to certify that Project Report entitled "**Expense Tracker**" which is submitted by **MUKUL KUMAR SAHU, NARENDRA KUMAR SINGH, NEHA DINGRA** in partial fulfilment of the requirement for the award of degree B. Tech. in Department of Computer Science of Dr A.P.J. Abdul Kalam Technical University, Lucknow is a record of the candidates own work carried out by them under my supervision. The matter embodied in this report is original and has not been submitted for the award of any other degree.

Date: 12/12/2021   **Supervisor Signature**
                                                                               Prof. Shivani
                                                                               (Assistant Professor)

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Last but not the least, we acknowledge our friends for their contribution to the completion of the project.

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ABSTRACT

Expense tracker is a Web site. This web site allows the user to maintain a computerized diary. Expense tracker web site which will keep a track of Expenses of a user on a day to-day basis. This web site keeps a record of your expenses and also will give you a category wise distribution of your expenses. With the help of this web site user can track their daily/weekly/monthly expenses. This web site will also have a feature which will help you stay on budget because you know your expenses. Expense tracker web site will generate report at the end of month to show Expense via a graphical representation. We also have added a special feature which will distributes your expenses in different categories suitable for the user. An expense history will also be provided in web site.

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CHAPTER 1
1.1 INTRODUCTION

In our day to day life we struggle a lot to track our expense. As a youngster we never think about how much we spent and where until we fall short of money. We need some applications that can tract our expenses and Usher us minimize our frivolous expenses and to meet our required demand of money in useful matters.

Now a day's people are concerned about regularity of their daily expenses. This is done mainly for keep a track of the users' daily expenses to have a control of users' monthly expenses. We have developed an Web Site named as "Expense Tracker" and this application is used to manage the user's daily expenses in a more coherent and manageable way. This application will help us to reduces the manual calculations for their daily expenses and also keep the track of the expenses.

The idea of developing this project in website is for user convenience. Because whenever they make expenses immediately, they can add in website. Some of the concerns maintaining a personal expense is a BIG problem, in daily expenses many times we don't know where the money goes. Some of the conventional methods used to tackle this problem in normal circumstances are like making use of a sticky notes by common users, Proficient people deals with this kind of problems by using spreadsheets to record expense and using a ledger to maintains the large amounts data by especially by expert people. As this shows that it is various methods used by different people. This makes using this data contrary. There is still complication in areas like there is no assurance for data compatible, there are chances of crucial inputs can be missed and the manual errors may sneak in. The Data recorders are not always handled, and it could be hectic process to have overall view of those expenses. We believe a handy design and a handy website which handles these troubles. Such that website is capable of recording the expenditure and giving broad view with easy to use the user interface and this website is intelligent enough to shows the history of expenses noted in it.

1.2 PROBLEM STATEMENT

"If a person is onto a plan of doing some program/event somewhere. But it seems he is running low on budget. He needs to watch every single little penny he spends during the event. Wouldn't it be great if someone made him an expense tracking application?" we are making such website which will help us in maintaining our expenses in any kind of event.

As the traditional methods of budgeting, we need to maintain the Excel sheets, Word Documents, notes, and files for the user daily and monthly expenses.There is no as such full-fledged solution to keep a track of our daily expenses easily. Keeping a log in diary is a very monotonous process and also may sometimes lead into problems due to the manual calculations. Looking on all the above given conditions, we are trying to satisfy the user requirements by building a web site which will help them reduces their burdens.

1.3 OBJECTIVES

We need to manage many things in our daily life that's why we often forget to manage our money. But prominently we need to see our expenses also so that we never fall short of our money. We will use full stack and machine learning to make our work more efficient.

The Expense tracker existing system does not provide the user portable device management level, existing system only used on mobile software so unable to update anywhere expenses done and unable to update the location of the expense details disruptive that the proposed system provides. In existing, we need to maintain the Excel sheets, CSV files for the user daily, weekly and monthly expenses. In existing, there is no as such complete solution to keep a track of its daily expenses easily. Also there is no voice feature to add expenses. To do so a person as to keep a log in a diary, also all the calculations need to be done by the user which may sometimes results in mistakes leading to losses. The existing system is not user friendly because data is not maintained perfectly. But this project will have any reminder to remain a person in a specific date.

1.4 SCOPE

This website will provide a convenient way for users to track their expenses. It will also have a voice add feature. In which a person can add expense to particular date by just saying. It will be user friendly website with easy to use and understand features .

CHAPTER 2

LITERATURE REVIEW

Expense Tracker Application

This application allows the user to maintain a computerized diary. Expense tracker application which will keep a track of Expenses of a user on a day-to-day basis. This application keeps a record of your expenses and also will give you a category wise distribution of your expenses. With the help of this application user can track their daily/weekly/monthly expenses. This application will also have a feature which will help you stay on budget because you know your expenses. Expense tracker application will generate report at the end of month to show Expense via a graphical representation. We also have added a special feature which will distributes your expenses in different categories suitable for the user. An expense history will also be provided in application.

Economic Stimulus at the Expense of Routine-Task Jobs

Given the centrality of the attitude construct in the decision-making literature, we will focus on the determinants of attitude toward maintaining a financial budget. Cognitive structure (i.e., beliefs toward the attitude object multiplied by the evaluation of those beliefs) traditionally has been viewed as the determinant of attitude, and the influence of all other factors on attitude (e.g., personality, environmental factors, demographic factors) is hypothesized to be mediated by cognitive structure. An alternative view, which has received some empirical support (Turrisi, Jaccard, & McDonnell, 1997), is that these additional factors have a direct effect on attitude.

Machine learning in construction: From shallow to deep learning

The development of artificial intelligence technology is currently bringing about new opportunities in construction. Machine learning is a major area of interest within the field of artificial intelligence, playing a pivotal role in the process of making construction "smart". The application of machine learning in construction has the potential to open up an array of opportunities such as site supervision, automatic detection, and intelligent maintenance. However, the implementation of machine learning faces a range of challenges due to the difficulties in acquiring labeled data, especially when applied in a highly complex construction site environment. This paper reviews the history of machine learning development from shallow to deep learning and its applications in construction. The strengths and weaknesses of machine learning technology in construction have been analyzed in order to foresee the future direction of machine learning applications in this sphere. Furthermore, this paper presents suggestions which may benefit researchers in terms of combining specific knowledge domains in construction with machine learning algorithms so as to develop dedicated deep network models for the industry.

Machine learning for enterprises: Applications, algorithm selection, and challenges

Machine learning holds great promise for lowering product and service costs, speeding up business processes, and serving customers better. It is recognized as one of the most important application areas in this era of unprecedented technological development, and its adoption is gaining momentum across almost all industries. In view of this, we offer a brief discussion of categories of machine learning and then present three types of machine-learning usage at enterprises. We then discuss the trade-off between the accuracy and interpretability of machine-learning algorithms, a crucial consideration in selecting the right algorithm for the task at hand. We next outline three cases of machine-learning development in financial services. Finally, we discuss challenges all managers must confront in deploying machine-learning applications.

Does revenue-expense matching play a differential role in analysts' earnings and revenue forecasts?

This paper investigates whether matching has differential implications for the accuracy of analysts' earnings and revenue forecasts. We construct a novel measure of firm-level matching and document that matching improves analysts' earnings forecasts to a greater extent than their revenue forecasts. We also document matching's differential impact on analysts' earnings and sales forecasts by proposing a new count metric capturing a wedge in the accuracy of earnings and revenue forecasts. In additional tests, we report that the differential impact of matching is less (more) pronounced in a situation where the balance sheet (income statement) orientation likely dominates. We also report that matching's differential role is weaker (stronger) when firms have high intangible intensity (analysts have appropriate resources or expertise). In short window tests, matching's role in analysts' forecast revisions is more pronounced for earnings than sales forecasts. Overall, these results show how analysts benefit from better revenue-expense matching.

Greening the office: Saving resources, saving money, and educating our patients

Dermatologists can benefit from adopting environmental sustainability in the management of their practices. We can also use opportunities to share best practices in environmental stewardship concepts with our colleagues, patients, and communities. Herein, we review easy steps for any health care professional, and dermatologists in particular to adopt environmental sustainability and become more active in the fight against climate change.

Many simple, cost effective, energy saving resources were identified. A reference list of climate change resources for health are organizations to help with lower their carbon footprints, educating their staff and patients, and advocacy for better environmental stewardship is presented. Going green is an easy process that can save money, boost morale, and help educate patients while reducing the carbon footprint of any size medical practice.

You owe it to yourself: The financially literate manager

There is an important benefit for businesspeople who are financially literate. Financial literacy helps them to function efficiently at work because they are able to evaluate the information needed to make decisions that have financial ramifications or consequences.

Research into the financially literate has tended to concentrate on personal finance issues involving the general public. The focus of this paper, however, is on small businesses owner-entrepreneurs who, in their first year, are required to understand the financial position and activities of their organisations, and thus do not need to take the activities, statements and advice of their accountants and financial advisors on trust.

Using data collected from 147 small businesses over their first year of trading, the findings provide evidence of a degree of financial illiteracy which has implications for the success or failure of this section of the business community.

Money-back guarantee in the presence of strategic customer behavior

Anticipating future clearance markdowns, customers can choose purchase timing to maximize their expected utility. Taking into account such strategic consumer behavior, this paper conducts an analytical research for the optimal design of the money-back guarantee (MBG). Our work found that the degree of strategic consumer behavior can have crucial effects on the optimization of MBG. Specifically, offering an MBG in both the regular and clearance sale periods is optimal for the seller when the customers are highly strategic; otherwise, providing an MBG is optimal only during the regular selling period. In addition, customers can benefit from MBG. In particular, offering an MBG only during the regular selling period generates the highest surplus for consumers when they are comparatively highly strategic; otherwise, offering an MBG during both the regular and clearance sale periods is preferable. Furthermore, an MBG can achieve Pareto improvement for the seller and consumers only in the regular selling period with moderately strategic customers. Compared to extant literature, the fundamental contributions of this paper are (1) the revelation that the degree of strategic customer behavior is a critical factor when designing an MBG, and (2) the development of an analytical characterization of the optimization of an MBG in response to different degrees of strategic customer behavior. Our work well substantializes the result that an MBG policy can be an effective tool for addressing strategic customer behavior.

Debt, accounting, and the transformation of individuals into financially responsible neoliberal subjects

Debt serves to financialise and responsibilise individuals ineoliberal societies.
Vague or inaccurate accounting information responsibilises individuals by generating emotions. Vague or inaccurate accounting information supports the construction of the neoliberal subject. Hope is an important mechanism by which refugees transform their view of debt in something positive. Expected rewards and imagination play an important role in responsibilisation processes.

Trackify: A Robust System For Preserving Money Transactions

Money exchange is one of the most ordinary days to day activities done by humans in the daily market. This paper presents an approach for money tracking over a Blockchain. This approach consists of three core components: serial localization, serial recognition, and Blockchain to store all transactions and ownership transfers. The system was examined with a total of 110 banknotes with different currency types and achieved an average accuracy of 91.17%.

A simple model of a money-management market with rational and extrapolative investors

I analyze a simple model of competition in fees among mutual funds. The funds are vertically differentiated in terms of the expected return they can generate for investors. Following Berk and Green (2004), I assume that a fund's net return is decreasing in the amount of capital it manages, and that there is an infinite supply of capital by rational investors. Unlike the Berk-Green model, I assume there is also a finite supply of capital by non-rational investors who naively chase recent net returns. Investor behavior and the funds' fee profile induce a long-run average amount of managed capital for each fund. I analyze Nash equilibrium in the game played by the funds, focusing on the implications of fund skill on fees, capital flows and net performance.

The role of family financial socialization and financial management skills on youth saving behavior

In Kenya, youth struggle with poverty, characterized by low rates of income and asset generation. In response, Kenya has invested substantial resources in supporting youths' financial empowerment (Government of Kenya, 2017). However, the effectiveness of these efforts may be limited because little is known about how youth develop financial values and attitudes. It is these values that determine how individuals go on to build financial assets and work their way out of poverty.

Financial management skills of nurse managers in the Eastern Region of Ghana

Nurse managers play a significant role in the financial management of hospitals but have inadequate knowledge, skills, and competence in financial management. Recommendations include well-structured training and education on financial management using a multidisciplinary approach to enable nurse managers to gain the required knowledge and skills. Continuous experiential learning and mentorship programs should be developed for nurses before the assumption of management positions.

CHAPTER 3
METHODOLOGY
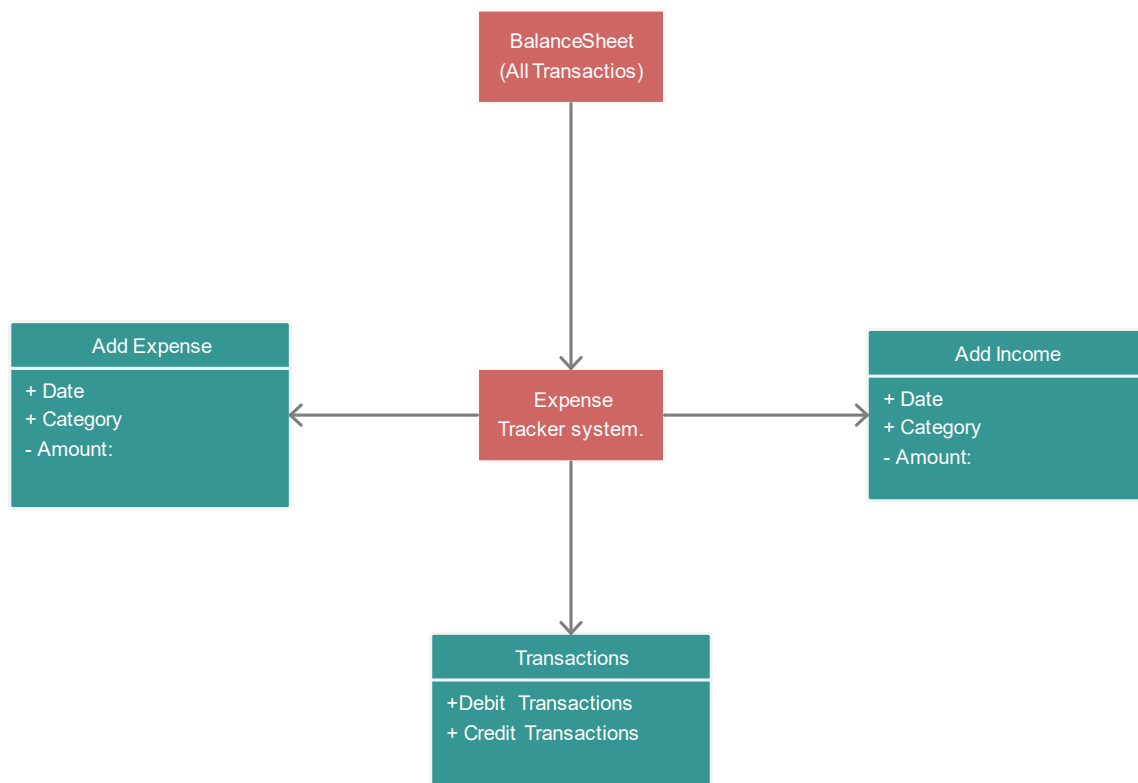
This flow explain us about how different things going to be there in a website. It will have various features like balance sheet where all transactions will be shown, add income category, add expenses category and transactions of debit and credit card will also be shown accordingly.

CHAPTER 4

TECHNOLOGY TO BE USED

FULL STACK:

Full stack development refers to the development of both front end(client side) and back end(server side) portions of web application.Full stack web developers have the ability to design complete web application and websites. They work on the frontend, backend, database and debugging of web application or websites.
Popular Stacks:
MEAN Stack**:** MongoDB, Express, AngularJS and Node.js.
MERN Stack**:** MongoDB, Express, ReactJS and Node.js
Django Stack**:** Django, python and MySQL as Database.
Rails or Ruby on Rails**:** Uses Ruby, PHP and MySQL.
LAMP Stack**:** Linux, Apache, MySQL and PHP

MACHINE LEARNING:

Machine Learning uses **some algorithms to make computers learn without being** explicitly programmed. It is the finest method of data analysis which automates the creation of analytical models. That's why Machine Learning frameworks play an important role in web development.

CHAPTER 5
DIAGRAM

Activity diagram(Income/Expense)
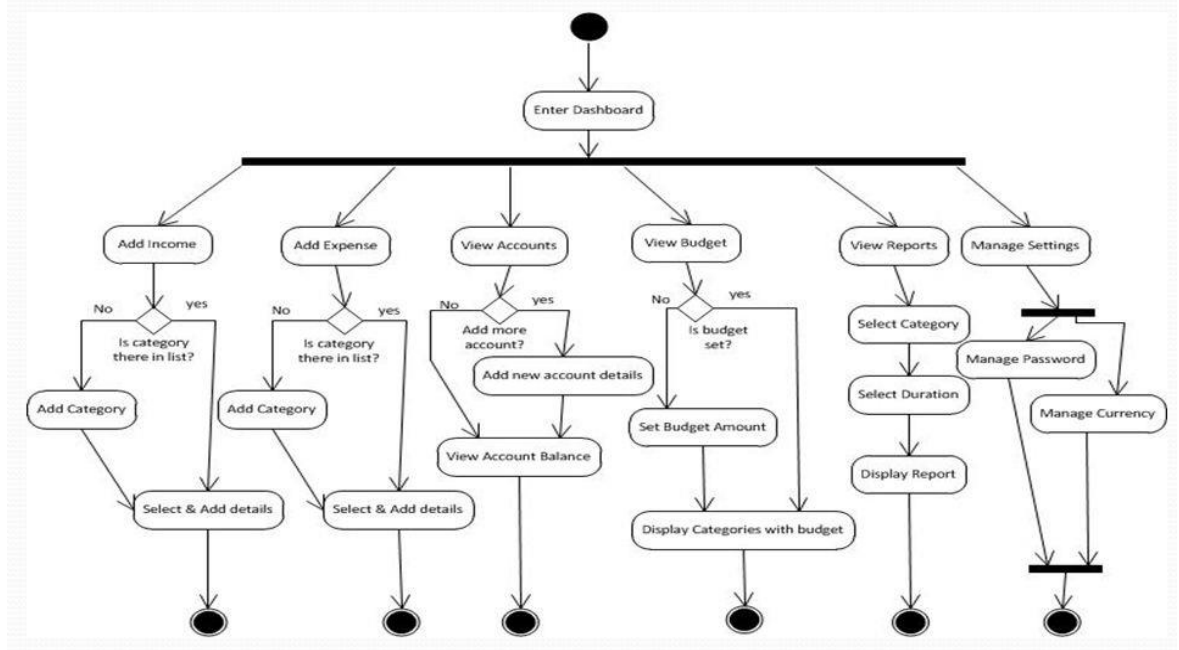
CHAPTER 6
CONCLUSION

Expense tracker is a Web site. This web site allows the user to maintain a computerized diary. Expense tracker web site which will keep a track of Expenses of a user on a day to-day basis. This web site keeps a record of your expenses and also will give you a category wise distribution of your expenses. With the help of this web site user can track their daily/weekly/monthly expenses. This web site will also have a feature which will help you stay on budget because you know your expenses. Expense tracker web site will generate report at the end of month to show Expense via a graphical representation. We also have added a special feature which will distributes your expenses in different categories suitable for the user. An expense history will also be provided in web site.

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