



International Journal of Research Publication and Reviews

Journal homepage: www.ijrpr.com ISSN 2582-7421

Daily Expense Tracker Android Application

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ABSTRACT:

The Expense Tracker is an Android application designed to help users systematically record and manage their daily expenses. It enables users to classify their expenditures and track their financial actions on a daily, weekly, and monthly basis. By giving users insightful information about their spending patterns, this software helps users stick to their spending limits. It helps customers see their financial trends by producing a graphical spending report at the end of each month. The program also has a classification tool that arranges spending for more thorough inspection. The Expense Tracker's accessible history, which enables users to examine previous transactions at any time, is a significant benefit. This program helps users make informed financial decisions by making expenditure management easier..

Keywords: IDE, Expenses, Java, Xml, Firebase, OS, Analytics, SDK, Category, Filter Transaction, Generate, PDF, Statement, Income.

1. Introduction :

A smartphone software called Expense Tracker was created to assist users in effectively managing their everyday expenses. It enables both people and companies to track, classify, and examine their spending patterns. Users can add and review their expenses with ease because to its user-friendly layout. The app gives a clear picture of expenditure trends and offers a variety of viewing choices, including daily, weekly, and monthly summaries. It produces comprehensive visual reports at the end of every month, which enhances the insight of financial tracking. The app's expense classification system is a crucial component that aids users in locating high-spending regions and improving their budgeting choices. It also keeps track of previous expenditures, allowing users to examine earlier transactions at any time. The Expense Tracker helps users make smarter financial decisions, remain within their budget, and improve their control over their money by making financial management easier.

2. Literature Survey :

A comparative analysis of research publications on automated subjective answer evaluation using Android is shown in the table below. Along with the benefits (pros) and drawbacks (cons) of the suggested techniques and technologies in each study, it emphasizes the authors, titles, and publication years. This comparison seeks to provide light on the developments and difficulties in the field of automated answer grading systems that use natural language processing (NLP) and artificial intelligence.

Table 1 – Comparative Analysis of Research

Sr. No.	AUTHOR	TITLE	YEAR		PROS
[1]	Namita agtap, Priyanka Joshi	Android App for Budget Estimator	2023	assists consumers in controlling shared costs	Gathering information for market research could cause privacy issues.
[2]	Atiya Kazi	An Android App for Financial Management That Is User-Centric		consists of user registration, revenue and cost classification, and local data storage.	Absence of cloud synchronization and sophisticated analytics
[3]	Aman Garg, Mukul Goe,	All-inclusive Cost Monitoring with AI and Security Integration	2023	Improved security features, several modules, such as family expense	Certain functions lack direct financial integration and require user approval.

				management, and data analysis that incorporates AI	
[4]	Dr. Adepegba O.A. ayemiwo	Android App: Daily Expense App	2023	covers a range of daily spending areas.	Automation and AI-driven insights are not mentioned

[1] By classifying transactions and producing real-time financial summaries, the daily cost tracker automates the process of recording expenses. Research shows that automated tracking and analysis improves budget management efficiency by 70% for users. [2] The system employs data analytics and visualization techniques to provide insights into spending patterns. While it helps users track expenses effectively, its main limitation lies in the inability to distinguish between essential and non-essential expenditures, potentially leading to misinterpretation of financial habits.

[3] An AI-powered cost tracking solution that integrates with digital receipts and bank statements to reduce the amount of manual entry. Although handling cash transactions and personal expenditures unrelated to digital payments may provide difficulties, this technique lowers human error and produces accurate expenditure records..

[4] A budget forecasting tool based on machine learning that examines past expenditure patterns to anticipate future ones. Although this method aids users in effectively managing their finances, it may become less accurate when handling sporadic or one-time expenses that diverge from historical trends..

3. Problem Statement :

It can be difficult to track daily costs and manage funds in the fast-paced world of today. People frequently lose track of their spending due to busy lifestyles, a variety of payment methods, and numerous transactions, which can result in overspending and financial stress. The problem is made more complex by the lack of an easy-to-use tool for tracking expenses, which makes it challenging to determine where money is going. With more people depending on mobile applications to effectively manage their accounts and the continued rise in popularity of digital financial tools, this initiative is particularly pertinent.

4. Objectives :

1. To design a user-friendly interface that makes it simple for users to record, classify, and retrieve financial summaries of their daily spending.
2. To allow users to keep accurate and up-to-date financial records by allowing them to report their spending in real-time

5. Discussion :

Through the tracking and classification of spending, the Expense Tracker app assists users in managing their finances. It was developed using Agile and offers expenditure alerts, payment reminders, and visual reports for improved control.

While PDF reports provide a summary of transactions, Firebase guarantees safe data preservation. Manual entry, meanwhile, may be a drawback. AI insights, bank integration for real-time tracking, and OCR for scanning receipts are possible future additions..

6. Conclusion :

An efficient tool for managing personal finances and encouraging saving behaviors is a spending tracker app. By enabling users to record their income and expenses on a regular basis, it assists users in maintaining financial control. The application stops impulsive or unexpected purchases by establishing a daily spending cap. The software notifies users if they go over their daily spending limit. However, the remaining cash is moved to their savings if they spend less than their maximum. The software creates a cost report at the end of each month, giving users information about their spending habits and pointing out areas where they can make savings. All things considered, utilizing a spending tracker software is a great method to promote fiscal responsibility and improve financial stability.

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