



**A REPORT ON**

**Expense Tracker Web Application  
Developed Using ASP.Net**

**Submitted By**

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## **ABSTRACT**

This report explores the development of an Expense Tracker Web Application using ASP.Net, focusing on its features for efficient expense tracking and financial control. With a dynamic dashboard displaying recent transactions and intuitive graphs for expenses and income trends, users gain real-time insights. The app allows seamless categorization of transactions and effortless addition of new ones. Key financial metrics are prominently displayed for quick reference. Overall, the Expense Tracker Web App offers a concise and effective solution for users seeking to manage their finances with ease.

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## INTRODUCTION

In an era where financial prudence is paramount, the Expense Tracker Web Application emerges as a crucial tool for individuals and businesses alike. Developed using ASP.Net technology, this application offers a comprehensive suite of features tailored to streamline expense tracking and financial management.

At its core, the application boasts a dynamic dashboard that serves as a central hub for users to monitor their financial activities at a glance. The dashboard prominently displays recent transactions, providing users with real-time insights into their spending patterns. Additionally, intuitive graphs offer visual representations of both expenses and income trends over time, empowering users to make informed financial decisions.

One of the standout features of the Expense Tracker is its ability to categorize transactions efficiently. Users can effortlessly add, edit, or remove categories, allowing for personalized organization and analysis of expenditures. Whether it's groceries, utilities, or leisure activities, the application ensures that every expense finds its rightful place, enabling users to track their spending with precision.

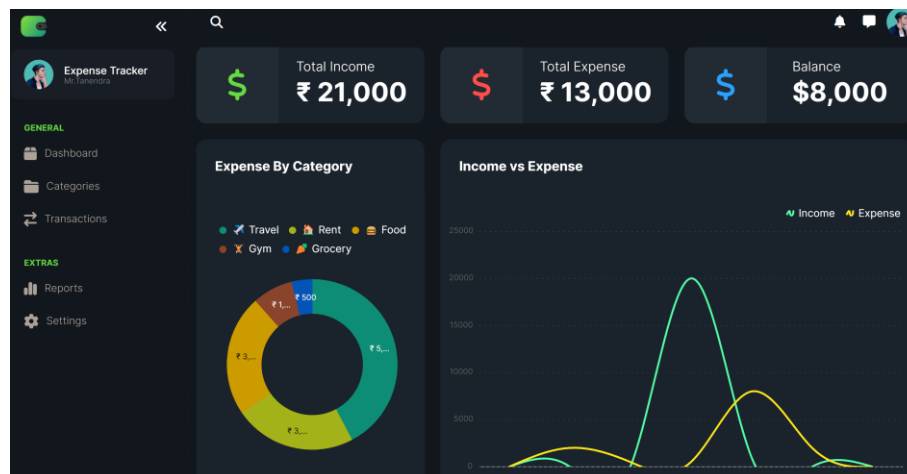
Furthermore, the application facilitates seamless transaction management, allowing users to record new transactions effortlessly. Whether it's a simple purchase or a recurring expense, users can add transactions with ease, ensuring that no financial activity goes unnoticed.

On the desktop interface, vital financial metrics such as overall expenses, income, and available balance are prominently displayed at the top of the screen, providing users with a comprehensive overview of their financial health. This intuitive layout ensures that users can access critical information swiftly, empowering them to stay in control of their finances.

In conclusion, the Expense Tracker Web Application represents a powerful solution for individuals and businesses seeking to optimize their financial management processes. With its user-friendly interface, robust feature set, and ASP.Net foundation, the application sets a new standard for efficient expense tracking and financial planning in the digital age.

## Issues and solutions

- Issue: Complex Expense Tracking:**  
**Solution:** The primary challenge was to create a system that simplifies expense tracking for users with varying financial needs. We addressed this by designing a user-friendly interface with intuitive features. The dashboard provides a quick overview of recent transactions, while the categorization system allows users to organize expenses efficiently. Additionally, the ability to add transactions seamlessly ensures that users can record their expenditures with minimal effort.
- Issue: Lack of Real-Time Insights:**  
**Solution:** Many existing expense tracking solutions lack real-time insights, making it challenging for users to monitor their financial health effectively. To overcome this, we implemented dynamic graphs that visually represent expenses and income trends over time. This feature empowers users to make informed decisions by providing them with up-to-date information on their financial activities.
- Issue: Limited Financial Control:**  
**Solution:** Without access to comprehensive financial metrics, users may struggle to maintain control over their finances. To address this issue, we integrated key metrics such as overall expenses, income, and available balance into the desktop interface. By prominently displaying these metrics, users can quickly assess their financial status and make adjustments as needed, thereby enhancing their overall financial control.
- Issue: Complexity in Transaction Management:**  
**Solution:** Managing transactions can be cumbersome, especially when dealing with a large volume of financial data. Our solution simplifies transaction management by allowing users to add, edit, or remove transactions effortlessly. This streamlined process ensures that users can maintain accurate records of their financial activities without encountering unnecessary complexity.



## Technical Specifications

- Microsoft AspNetCore version – 6.0.28
- Packages Used -
- Database used – Microsoft SQL server management Studio 20
- Api used for Frontend and asp.Net elements, Graph – Syncfusion  
Api version - 25.1.35  
Website - <https://www.syncfusion.com/>  
Using Licence key of Community edition
- No of Database table used – 2 (Transaction, Categories)

### 1) Categories Table - (Categoryid as primary key)

Column Name	Data Type
CategoryId	int
Title	nvarchar(50)
Icon	nvarchar(5)
Type	nvarchar(10)

### 2) Transaction - (Transactionid as primary key and Categoryid as Foreign Key)

Column Name	Data Type
TransactionId	int
CategoryId	int
Amount	int
Note	nvarchar(50)
Date	datetime2(7)

- Views

#### 1) Dashboard -

Home view of the Web application showing graph and donut graph with total expense and salary and recent transaction with a side bar for navigation

#### 2) Transaction –

Show all transaction in the form of table with options of adding or removing or editing transactions

#### 3) Category –

Show all Category in the form of table with options of adding or removing or editing category whether it is an expense or an income

## CONCLUSION

the development of the Expense Tracker Web Application using ASP.Net has yielded a robust solution for addressing common challenges in financial management. By focusing on user-friendly features and real-time insights, we've provided a tool that empowers users to take control of their finances with ease.

Through the implementation of a dynamic dashboard, intuitive categorization system, and seamless transaction management, users can track their expenses efficiently. The inclusion of visual graphs displaying expense and income trends enables users to make informed decisions based on up-to-date financial data.

Moreover, by prominently displaying key financial metrics such as overall expenses, income, and available balance, users can gain a comprehensive understanding of their financial health at a glance. This fosters greater financial control and decision-making capabilities.

In essence, the Expense Tracker Web Application offers a concise yet powerful solution for individuals and businesses seeking to streamline their expense tracking and financial management processes. With its user-friendly interface and ASP.Net foundation, it sets a new standard for efficient and effective financial management in the digital age.