

PROJECT REPORT

Title: Monthly Expense Tracker Using C#

Submitted By

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Submitted To

Faculty: Kajal Ma'am

Session: 2025–2026

1. Acknowledgement

I would like to express my sincere thanks to Kajal Ma'am for her support and guidance in completing this project. The encouragement and useful suggestions given by her were greatly helpful in completing the project successfully.

2. Certificate

This is to certify that the project titled “Monthly Expense Tracker Using C#” has been completed by Ayush Kumar Gupta, Roll No 24BCD10151, Class 24BCD-3, Section B, under the guidance of Kajal Ma'am during the academic session 2025–2026.

Signature of Faculty

Kajal Ma'am

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3. Objectives

- To maintain daily expense records.
- To categorize expenses properly.
- To calculate total monthly spending.
- To help users better manage their monthly budget.

4. Tools & Technologies Used

Tool/Language	Description
C# Language	Used for coding application logic
.NET Framework / .NET Core	Runtime environment
IDE	Visual Studio / Visual Studio Code
Data Structure	List to store expense details

5. Problem Statement

People often fail to track their day-to-day spending which leads to financial mismanagement. To avoid this, there is a need for a simple system that keeps expense records and gives total monthly expenditure.

6. C# Program Code

```
using System;
using System.Collections.Generic;

class Expense
{
    public string Date { get; set; }
    public string Item { get; set; }
    public double Amount { get; set; }
    public string Category { get; set; }
}

class Program
{
    static List<Expense> expenses = new List<Expense>();

    static void Main()
    {
        while (true)
        {
            Console.WriteLine("\n--- Monthly Expense Tracker ---");
            Console.WriteLine("1. Add Expense");
            Console.WriteLine("2. Show All Expenses");
            Console.WriteLine("3. Show Total Expense");
            Console.WriteLine("4. Exit");
            Console.Write("Enter your choice: ");
```

```
int choice = Convert.ToInt32(Console.ReadLine());

switch (choice)
{
    case 1:
        AddExpense();
        break;
    case 2:
        ShowExpenses();
        break;
    case 3:
        ShowTotalExpense();
        break;
    case 4:
        return;
    default:
        Console.WriteLine("Invalid Choice!");
        break;
}
}
```

```
static void AddExpense()
{
    Expense e = new Expense();
    Console.Write("Enter Date (DD-MM-YYYY): ");
    e.Date = Console.ReadLine();
    Console.Write("Enter Item Name: ");
    e.Item = Console.ReadLine();
}
```

```
Console.Write("Enter Amount: ");  
e.Amount = Convert.ToDouble(Console.ReadLine());  
Console.Write("Enter Category: ");  
e.Category = Console.ReadLine();
```

```
expenses.Add(e);  
Console.WriteLine("Expense added successfully!");  
}
```

```
static void ShowExpenses()  
{  
    if (expenses.Count == 0)  
    {  
        Console.WriteLine("No records found.");  
        return;  
    }  
}
```

```
Console.WriteLine("\n--- Expense Details ---");  
foreach (var e in expenses)  
{  
    Console.WriteLine($"Date: {e.Date} | Item: {e.Item} |  
Amount: ₹{e.Amount} | Category: {e.Category}");  
}  
}
```

```
static void ShowTotalExpense()  
{  
    double total = 0;  
    foreach (var e in expenses)  
    {
```

```
        total += e.Amount;
    }
    Console.WriteLine($"\\nTotal Monthly Expense =
    ₹{total}");
}
}
```

7. Output Example

--- Monthly Expense Tracker ---

1. Add Expense
2. Show All Expenses
3. Show Total Expense
4. Exit

Enter your choice: 1

Enter Date: 01-01-2026

Enter Item Name: Food

Enter Amount: 120

Enter Category: Daily Needs

Expense added successfully!

8. Advantages

The Monthly Expense Tracker developed in C# offers several advantages. It is simple to use and does not require any advanced technical knowledge, making it suitable for beginners and regular users. By recording daily expenses, the system helps users become more aware of their spending habits and supports better budget management.

The categorization of expenses also allows users to clearly understand where their money is being spent the most.

9. Limitations

Although the system is useful, it does have some limitations. The biggest limitation is that the data entered by the user is not stored permanently; once the program is closed, all expense records are lost. The project currently runs only in a console environment, which may not be convenient or visually appealing for non-technical users. The system also lacks additional features such as searching or filtering expenses based on date or category, which would improve usability.

10. Conclusion

This project provides a basic yet effective way to record and monitor monthly expenses. By entering everyday spending details, users can clearly understand where their money is going. The program encourages disciplined financial habits and helps in controlling unnecessary expenditures. Although the system currently works through a console interface, it can be upgraded with graphical features and database storage in the future.