



# ExpenseFlow

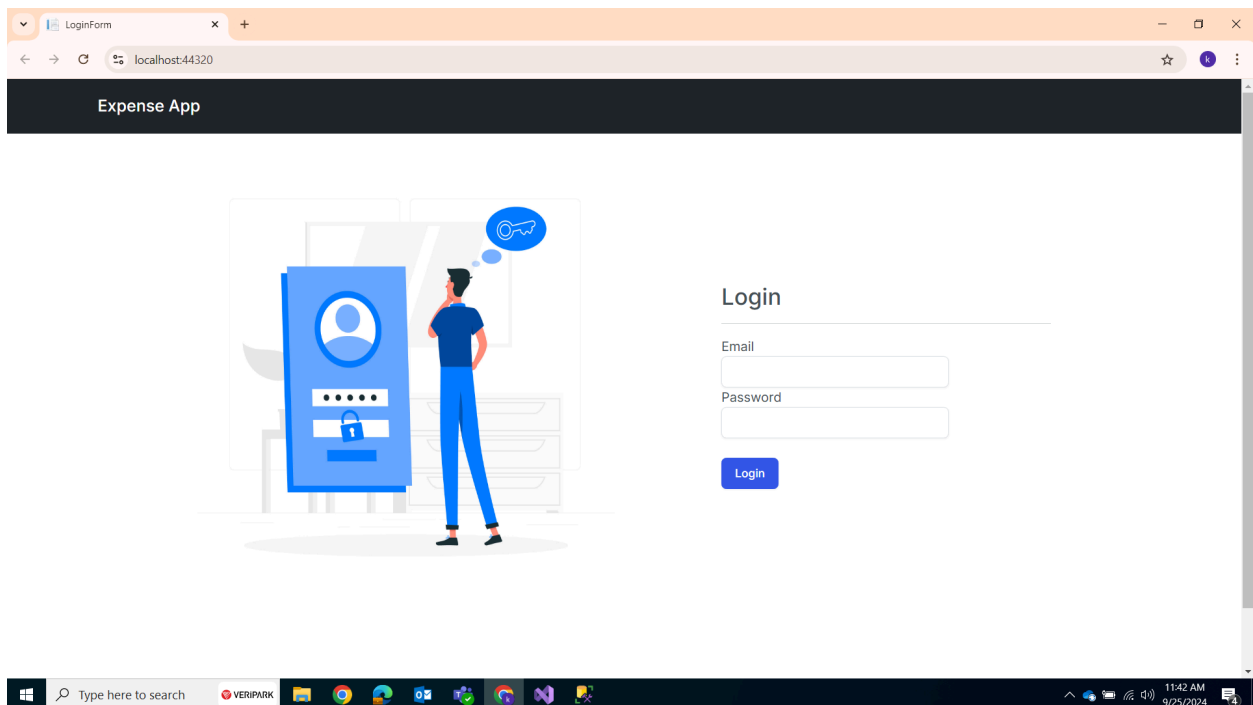
A Role-Based Workflow System for Smart Expense Reimbursements

## Github Repo:

<https://github.com/KhawajaAbdullah2000/ExpenseApplicationReadiness>

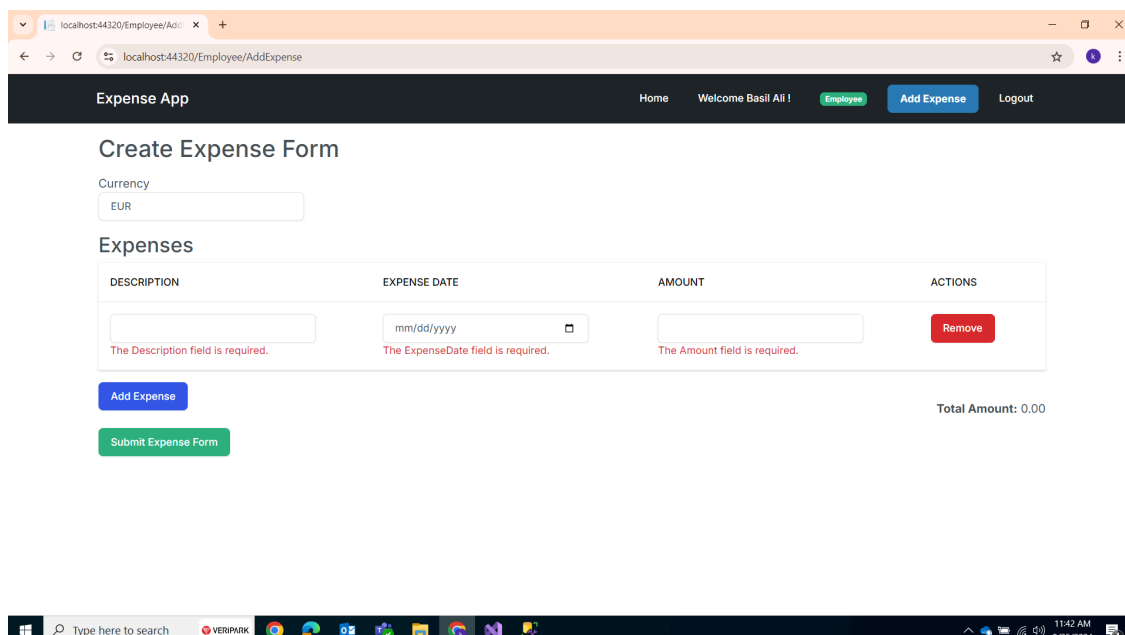
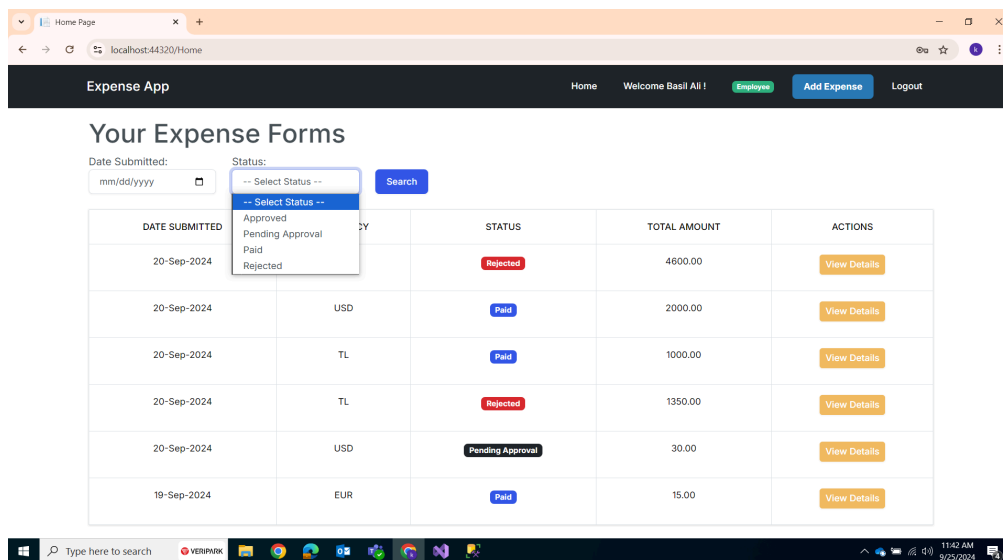
## 1. Project Overview

**ExpenseFlow** is a robust web-based expense management system built using .NET technologies and SQL Server. It digitizes and streamlines the employee reimbursement lifecycle from expense entry to managerial approval and final accounting clearance. Designed for multi-role workflows, the application ensures transparency, role-based access, and clear audit trails for organizations managing diverse expense types such as travel, meals, gas, and more.



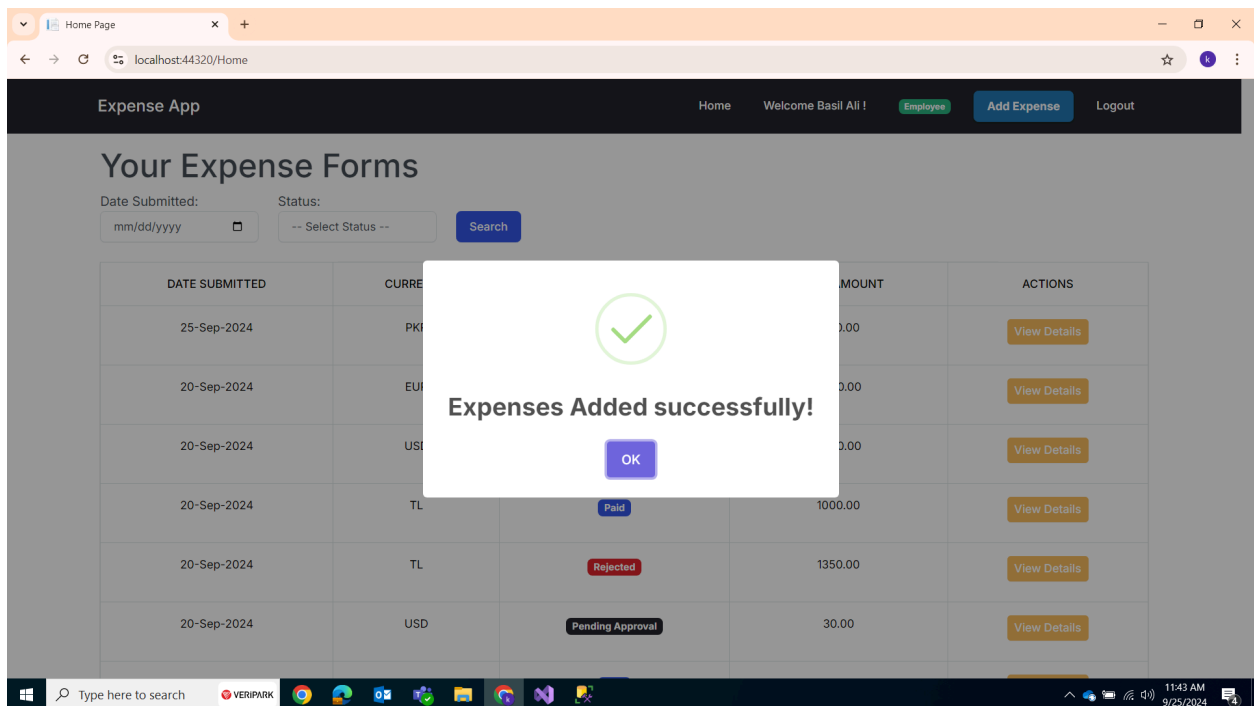
## 2. Key Objectives

- Enable employees to submit expense forms online.
- Facilitate structured approvals from Managers and Accountants.
- Ensure Admins can monitor and report on all expense activities.
- Provide a secure, role-based interface for each user type.
- Maintain a clean audit log of every transaction.



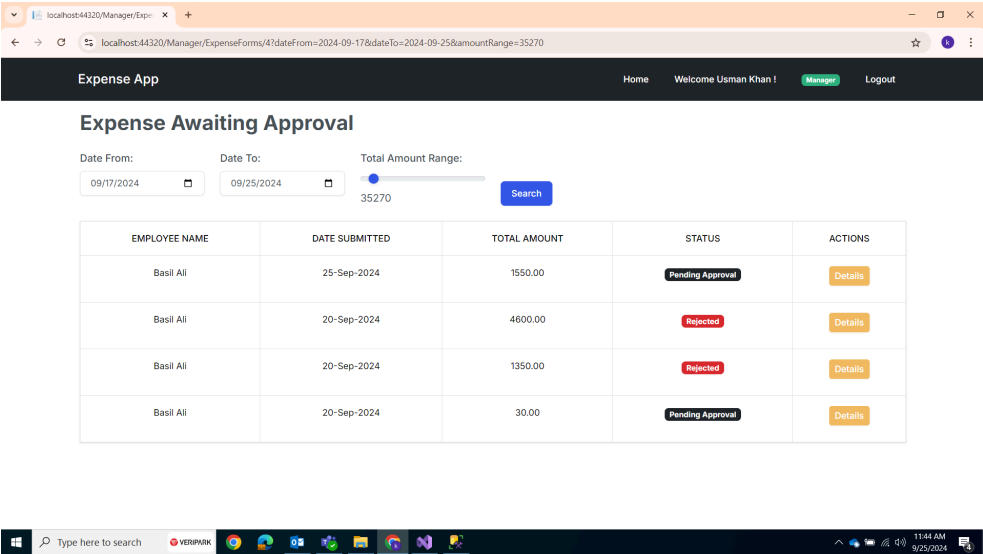
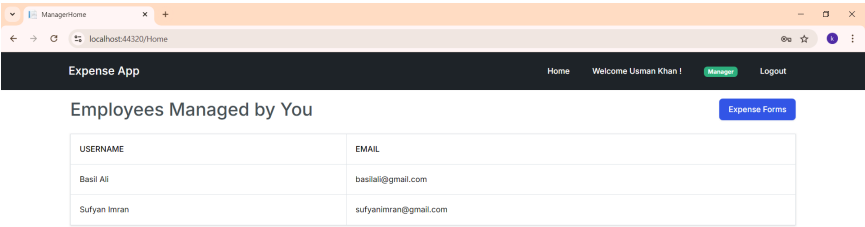
### 3. Technology Stack

Layer	Technology Used
Backend	ASP.NET MVC / ASP.NET Core
Frontend	Razor Views / HTML, CSS, JavaScript
Database	Microsoft SQL Server
IDE	Visual Studio Enterprise Edition
DB Management	SQL Server Management Studio (SSMS)
Logging	Custom Error Management with Logging



## 4. User Roles and Access Levels

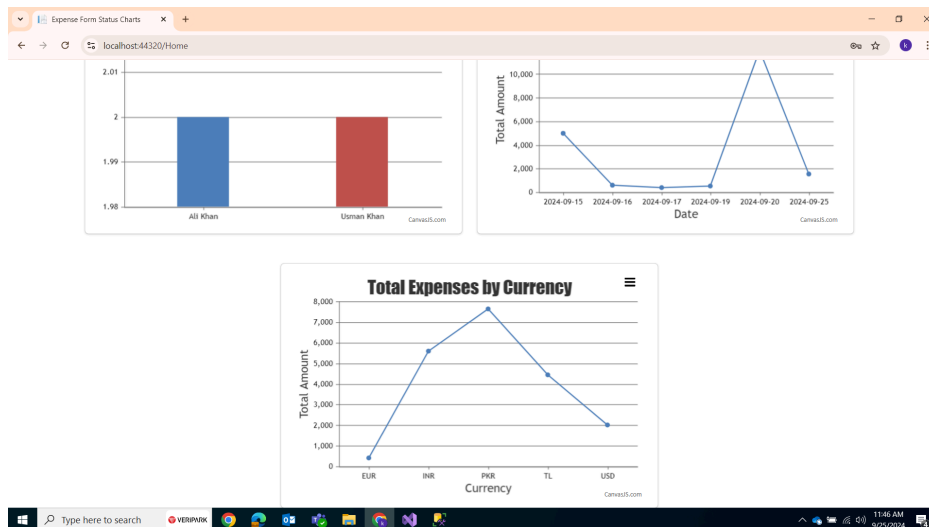
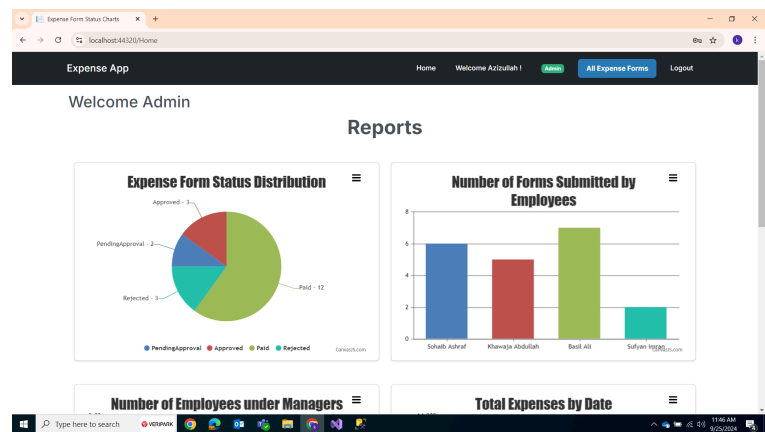
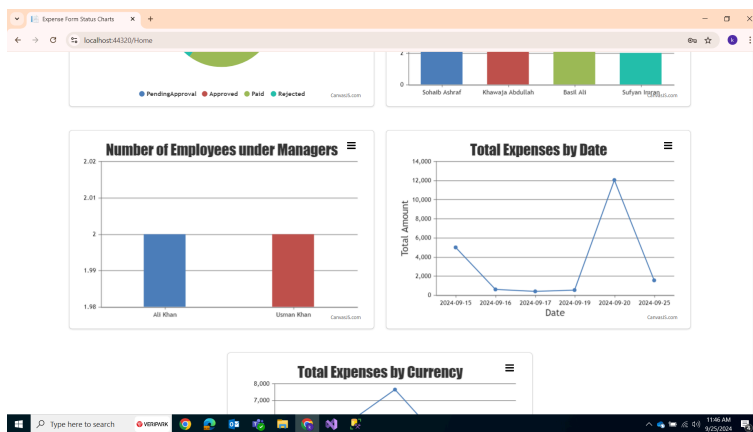
Role	Permissions
Employee	Submit expenses, view status, edit pending forms, view rejection reasons
Manager	View team expenses, approve or reject with comments
Accountant	View manager-approved forms, mark as paid
Admin	View all records, track all actions, access detailed reports (read-only)



## 7. Reporting Module (Admin Only)

Sample reports include:

- Total expenses by employee
- Average approval time per manager
- Top categories of expenses
- Currency distribution and conversion trends
- Monthly/quarterly reimbursement totals



## 5. Core Features by Role

### Employee

- Submit expense forms with dynamic currency support
- Add multiple expense items per form (max 5000 per item)
- View all submissions and statuses
- Edit expenses in “Pending” or “Rejected” status
- View rejection reasons from Managers

### Manager

- View only team member submissions
- Approve or request changes to entire forms
- Mandatory reason field for change requests

### Accountant

- Access manager-approved forms
- View expense breakdowns
- Mark expenses as “Paid” (no real payment integration)

### Admin

- Full visibility into all expense forms and activities
- Access to reporting dashboards for each role
- No permission to alter records (read-only access)
- Track full history: creation, approval, rejection, payment

## 8. Security & Validation

- Users restricted to their role-specific interfaces
- Expense and action history logged for traceability
- Field-level validations for values, currencies, and limits

ViewTransactions

Expense App

HomeWelcome Azizullah !AdminAll Expense FormsLogout

ViewTransactions

Expense Form History

DATE	PREVIOUS STATUS	NEW STATUS	REMARKS	ACTION BY
20-Sep-2024	PendingApproval	PendingApproval	No Remarks Yet	Sohaib Ashraf
20-Sep-2024	PendingApproval	Rejected	Add Gas Unit price in description	Ali Khan
20-Sep-2024	Rejected	Rejected	Form Edited by Employee	Sohaib Ashraf
20-Sep-2024	Rejected	Approved	Good. Approving now	Ali Khan
20-Sep-2024	Approved	Paid	Paid by Accountant	Shahab Khan

Back to Forms

Expense Details

Expense App

HomeWelcome Basil Ali !EmployeeAdd ExpenseLogout

Expense Details

Form ID: 36  
Date Submitted: 25-Sep-2024  
Currency: PKR  
Status: PendingApproval  
Remarks: No Remarks Yet  
Total Amount: 1550.00

Expenses

DESCRIPTION	EXPENSE DATE	AMOUNT
Petrol	04-Sep-2024	750.00
Gas	10-Sep-2024	400.00
Food	26-Sep-2024	400.00

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