# 🚀 Task Manager Application

## 📌 Overview

This is a Task Manager Web Application built with .NET MVC, Bootstrap, HTML, CSS, JavaScript, and SQL Server. It allows Admins to create, edit, and delete tasks, while Users can create and edit their own tasks. Each user session is managed securely.

## 🛠 Tech Stack

• Backend: ASP.NET MVC (C#)  
• Frontend: Bootstrap, HTML, CSS, JavaScript  
• Database: SQL Server with Entity Framework Core  
• Authentication: Session-based login  
• Version Control: Git & GitHub

## ✅ Features & Descriptions

### User Authentication (Sign Up & Log In)

Users can register and log in securely. Sessions are created for each user after login. Ensures only authenticated users can access the system. Admins have extra privileges to manage all tasks.

### CRUD Operations (Create, Read, Update, Delete)

Users can create tasks with a title, description, category, priority, and due date. Tasks can be viewed, updated, and deleted as needed.

### Task Categories & Tags

Users can categorize tasks (e.g., Work, Personal, Urgent, Shopping). Multiple tags can be added to help with filtering.

### Task Status Management

Users can mark tasks as Completed or Pending, helping track work progress.

### Search & Filter Tasks

Users can search tasks by title and filter tasks by category or status (Pending/Completed).

### Bootstrap UI & Responsive Design

Modern and responsive UI using Bootstrap, optimized for desktop, tablet, and mobile devices.

### Admin & User Roles

Admins can manage all users' tasks. Users can only manage their own tasks.

### Secure Session Management

User sessions are created after login to prevent unauthorized access. Sessions expire after logout or inactivity.

## 📌 GitHub Setup

1️⃣ Initialize Git in Your Project:

git init  
git add .  
git commit -m 'Initial commit - Task Manager Application'

2️⃣ Create a GitHub Repository and link it:

git remote add origin your-repository-url  
git branch -M main  
git push -u origin main

## ⚙️ How to Run the Application

1️⃣ Clone the Repository:

git clone https://github.com/your-username/task-manager.git  
cd task-manager

2️⃣ Configure Database: Open `appsettings.json` and update the SQL Server connection string.

"ConnectionStrings": {  
 "DefaultConnection": "Server=YOUR\_SERVER\_NAME;Database=TaskManagerDB;Trusted\_Connection=True;MultipleActiveResultSets=true"  
}

3️⃣ Apply Migrations:

database update

4️⃣ Run the Application:

dotnet run

## 🚀 Deployment

• Publish the project in Visual Studio using IIS, FTP, or Azure.  
• Deploy the database using SQL Server Management Studio (SSMS) or `dotnet ef database update`.

## 📩 Contact

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