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CRUD – Task_Management

Code :

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

class Task
{
    public string Title { get; set; }
    public string Description { get; set; }
}

class TaskManager
{
    private List<Task> tasks = new List<Task>();

    public void AddTask(string title, string description)
    {
        Task task = new Task { Title = title, Description = description };
        tasks.Add(task);
        Console.WriteLine("Task added successfully.");
    }

    public void ReadTasks()
    {
        if (tasks.Count == 0)
        {
            Console.WriteLine("No tasks available.");
        }
        else
        {
            Console.WriteLine("Tasks:");
            foreach (var task in tasks)
            {
                Console.WriteLine($"Title: {task.Title}, Description: {task.Description}");
            }
        }
    }

    public void UpdateTask(string title, string newTitle, string newDescription)
    {
        Task task = tasks.Find(t => t.Title == title);
        if (task != null)
        {
            task.Title = newTitle;
        }
    }
}
```

```

        task.Description = newDescription;
        Console.WriteLine("Task updated successfully.");
    }
    else
    {
        Console.WriteLine("Task not found.");
    }
}

public void DeleteTask(string title)
{
    Task task = tasks.Find(t => t.Title == title);
    if (task != null)
    {
        tasks.Remove(task);
        Console.WriteLine("Task deleted successfully.");
    }
    else
    {
        Console.WriteLine("Task not found.");
    }
}
}

class Program
{
    static void Main(string[] args)
    {
        TaskManager taskManager = new TaskManager();

        while (true)
        {
            Console.WriteLine("\nMenu:");
            Console.WriteLine("1. Add a task");
            Console.WriteLine("2. Read tasks");
            Console.WriteLine("3. Update a task");
            Console.WriteLine("4. Delete a task");
            Console.WriteLine("5. Exit");

            Console.Write("Enter your choice: ");
            int choice;
            while (!int.TryParse(Console.ReadLine(), out choice))
            {
                Console.WriteLine("Invalid input. Please enter a number.");
                Console.Write("Enter your choice: ");
            }

            switch (choice)
            {
                case 1:
                    Console.Write("Enter task title: ");
                    string title = Console.ReadLine();
                    Console.Write("Enter task description: ");
                    string description = Console.ReadLine();
                    taskManager.AddTask(title, description);
                    break;
                case 2:
                    taskManager.ReadTasks();

```

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        break;
    case 3:
        Console.Write("Enter title of the task to update: ");
        string oldTitle = Console.ReadLine();
        Console.Write("Enter new title: ");
        string newTitle = Console.ReadLine();
        Console.Write("Enter new description: ");
        string newDescription = Console.ReadLine();
        taskManager.UpdateTask(oldTitle, newTitle, newDescription);
        break;
    case 4:
        Console.Write("Enter title of the task to delete: ");
        string taskToDelete = Console.ReadLine();
        taskManager.DeleteTask(taskToDelete);
        break;
    case 5:
        Console.WriteLine("Exiting...");
        return;
    default:
        Console.WriteLine("Invalid choice. Please enter a valid
option.");
        break;
    }
}
}
}

```

1 > Task Added

C:\Users\ADMIN\source\repos\Task_CRUD\Task_CRUD\bin\Debug\Task_CRUD.exe

```
Menu:
1. Add a task
2. Read tasks
3. Update a task
4. Delete a task
5. Exit
Enter your choice: 1
Enter task title: school
Enter task description: school is a place where we lern and grow . it is a place where we make friends and memories . school is also a place where we learn about the world around us.
```

2 > read task

C:\Users\ADMIN\source\repos\Task_CRUD\Task_CRUD\bin\Debug\Task_CRUD.exe

```
Menu:
1. Add a task
2. Read tasks
3. Update a task
4. Delete a task
5. Exit
Enter your choice: 1
Enter task title: school
Enter task description: school is a place where we lern and grow . it is a place where we make friends and memories . school is also a place where we learn about the world around us.
Task added successfully.

Menu:
1. Add a task
2. Read tasks
3. Update a task
4. Delete a task
5. Exit
Enter your choice: 2
Tasks:
Title: school, Description: school is a place where we lern and grow . it is a place where we make friends and memories . school is also a place where we learn about the world around us.

Menu:
1. Add a task
2. Read tasks
3. Update a task
4. Delete a task
5. Exit
Enter your choice:
```

3> update task

```
Menu:
1. Add a task
2. Read tasks
3. Update a task
4. Delete a task
5. Exit
Enter your choice: 3
Enter title of the task to update: school
Enter new title: bank
Enter new description: Bank accept deposits from individuals and bussiness and provide loads to the industries.
Task updated successfully.

Menu:
1. Add a task
2. Read tasks
3. Update a task
4. Delete a task
5. Exit
Enter your choice: 2
Tasks:
Title: bank, Description: Bank accept deposits from individuals and bussiness and provide loads to the industries.

Menu:
```

4 > delete task

```
Menu:
1. Add a task
2. Read tasks
3. Update a task
4. Delete a task
5. Exit
Enter your choice: 4
Enter title of the task to delete: bank
Task deleted successfully.
```

5 > Console view

```
C:\Users\ADMIN\source\repos\Task_CRUD\Task_CRUD\bin\Debug\Task_CRUD.exe
Menu:
1. Add a task
2. Read tasks
3. Update a task
4. Delete a task
5. Exit
Enter your choice: 1
Enter task title: school
Enter task description: school is a place where we learn and grow . it is a place where we make friends and memories . school is also a place where we learn about the world around us.
Task added successfully.

Menu:
1. Add a task
2. Read tasks
3. Update a task
4. Delete a task
5. Exit
Enter your choice: 2
Tasks:
Title: school, Description: school is a place where we learn and grow . it is a place where we make friends and memories . school is also a place where we learn about the world around us.

Menu:
1. Add a task
2. Read tasks
3. Update a task
4. Delete a task
5. Exit
Enter your choice: 3
Enter title of the task to update: school
Enter new title: bank
Enter new description: Bank accept deposits from individuals and bussiness and provide loads to the industries.
Task updated successfully.

Menu:
1. Add a task
2. Read tasks
3. Update a task
4. Delete a task
5. Exit
Enter your choice: 2
Tasks:
Title: bank, Description: Bank accept deposits from individuals and bussiness and provide loads to the industries.

Menu:
1. Add a task
2. Read tasks
3. Update a task
4. Delete a task
5. Exit
Enter your choice: .
```

