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Github link= https://github.com/mayank5654/dotnetphase-end-project1

Dot Net Phase 1: Player and Team Project

SOURCE CODE

PROGRAM.CS

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace FastPace_Cricket_Academy
    internal class Program
        static void Main(string[] args)
            TeamManager teamManager = new TeamManager();
            bool shouldContinue = true;
            const int AddPlayerOption = 1;
            const int RemovePlayerOption = 2;
            const int GetPlayerByIdOption = 3;
            const int GetPlayerByNameOption = 4;
            const int DisplayPlayerOption = 5;
            while (shouldContinue)
                Console.WriteLine("1:To Add Player \n2:To Remove Player by Id
\n3.Get Player By Id \n4.Get Player by Name \n5.Get All Players:\n");
                Console.Write("Enter your Choice: ");
                int choice = teamManager.GetValidInt();
                switch (choice)
                    case AddPlayerOption:
                        teamManager.AddPlayer();
                        break;
                    case RemovePlayerOption:
                        teamManager.RemovePlayer();
                        break;
                    case GetPlayerByIdOption:
                        teamManager.GetPlayerById();
                        break;
                    case GetPlayerByNameOption:
                        teamManager.GetPlayerByName();
                        break;
```

```
case DisplayPlayerOption:
                    teamManager.DisplayAllPlayers();
                    break;
                default:
                    Console.WriteLine("Invalid Entry!!");
                    break;
            }
            Console.Write("Do you want to continue? (yes/no): ");
            string userResponse = Console.ReadLine().ToLower();
            Console.WriteLine();
            if (userResponse != "yes")
            {
                shouldContinue = false;
            }
        }
    }
}
class TeamManager
    private OneDayTeam team = new OneDayTeam();
    public void AddPlayer()
        if (OneDayTeam.oneDayTeam.Count >= team.Capacity)
            Console.WriteLine("Team is full!");
            return;
        }
        Console.Write("Enter Player ID: ");
        int id = GetValidInt();
        Console.Write("Enter Player Name: ");
        string name = GetValidString();
        Console.Write("Enter Player Age: ");
        int age = GetValidInt();
        Player player = new Player();
        player.PlayerID = id;
        player.PlayerName = name;
        player.PlayerAge = age;
        team.Add(player);
        Console.WriteLine("Player added successfully");
    }
    public void RemovePlayer()
        Console.Write("Enter Player ID to Remove: ");
        int id = GetValidInt();
        team.Remove(id);
    }
    public void GetPlayerById()
        Console.Write("Enter Player ID: ");
        int id = GetValidInt();
        Player player = team.GetPlayerById(id);
        if (player != null)
```

```
{
                Console.WriteLine(player.PlayerID + " " + player.PlayerName + "
" + player.PlayerAge);
            }
            else
            {
                Console.WriteLine("Player not found!");
        }
        public void GetPlayerByName()
            Console.Write("Enter Player Name: ");
            string name = GetValidString();
            Player player = team.GetPlayerByName(name);
            if (player != null)
            {
                Console.WriteLine(player.PlayerID + " " + player.PlayerName + "
" + player.PlayerAge);
            }
            else
            {
                Console.WriteLine("Player not found!");
        }
        public void DisplayAllPlayers()
            List<Player> players = team.GetAllPlayers();
            if (players.Count > 0)
                foreach (var player in players)
                    Console.WriteLine(player.PlayerID + " " + player.PlayerName
        + player.PlayerAge);
            }
            else
            {
                Console.WriteLine("No players in team! Add some players...");
            }
        }
        public int GetValidInt()
            int value;
            bool intNum;
            do
            {
                intNum = int.TryParse(Console.ReadLine(), out value);
                if (!intNum)
                {
                    Console.Write("Enter an Integer value! --> ");
            } while (!intNum);
            return value;
        }
        public string GetValidString()
```

```
string input;
            do
            {
                input = Console.ReadLine();
                if (string.IsNullOrWhiteSpace(input))
                    Console.Write("Enter a valid string value! --> ");
                }
            } while (string.IsNullOrWhiteSpace(input));
            return input;
        }
    }
}
                            PLAYER.CS
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace FastPace_Cricket_Academy
{
    internal class Player
    {
        public int PlayerID { get; set; }
        public string PlayerName { get; set; }
        public int PlayerAge { get; set; }
    }
}
                          ONE DAY TEAM.CS
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace FastPace_Cricket_Academy
    internal class OneDayTeam
        public static List<Player> oneDayTeam = new List<Player>();
        public int Capacity { get; }
        public OneDayTeam()
            Capacity = 11;
        public void Add(Player player)
```

```
{
            oneDayTeam.Add(player);
        }
        public void Remove(int playerId)
            if (oneDayTeam.Exists(player => player.PlayerID == playerId))
            {
                oneDayTeam.RemoveAll(player => player.PlayerID == playerId);
                Console.WriteLine("Player removed successfully");
            }
            else
            {
                Console.WriteLine("Player not found in the list!");
            }
        }
        public Player GetPlayerById(int playerId)
            return oneDayTeam.Find(player => player.PlayerID == playerId);
        public Player GetPlayerByName(string playerName)
            return oneDayTeam.Find(player => player.PlayerName == playerName);
        public List<Player> GetAllPlayers()
            return oneDayTeam;
        }
    }
}
                                       ITEAM.CS
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace FastPace_Cricket_Academy
{
    internal interface ITeam
    {
        void Add(Player player);
        void Remove(int pLayerId);
        Player GetPlayerById(int playerId);
        Player GetPlayerByName(string playerName);
        List<Player> GetAllPlayers();
    }
```

}