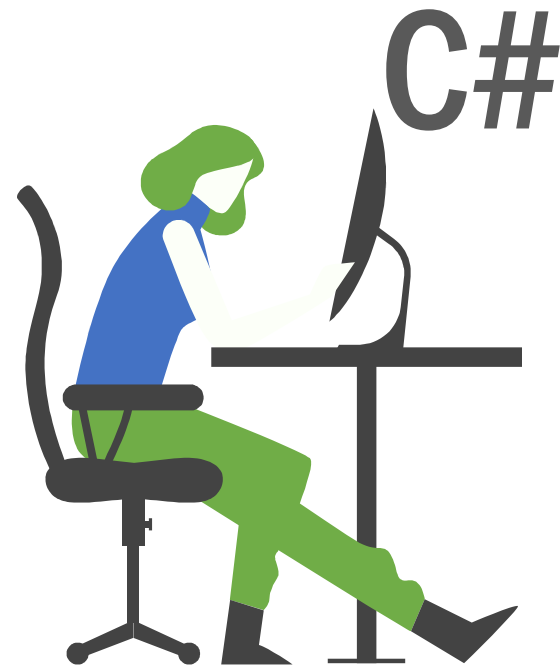


# CRUD Operations And Storing Data in .CSV /.XLS Files



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## Objective:

- In this project, we are going to learn how to perform CRUD operations in a Windows Form Application using Microsoft SQL Server.
- It provides simple and attractive Interface to the user. By Windows form application we accept data from user and stored in database.
- After Storing Data in Database we can easily Insert, Delete and Update data by using CRUD operations.
- After performing all the operations we can stored data in .csv and .xls file.
- These all operations are done by event handling and sql queries.

## Modules:

- Football Information Form: User can stored data using windows form application.
- CSV File: The record are stored in .csv file.
- XLS File: The records are stored in .xls file.

## Data Requirements:

1. Player Name(Text)
2. Club(Text)
3. Country(Text)
4. Jersey No(Int)

## Functionalities:

1. Accepting details from user and stored in Database.
2. Checking if the details entered by a user is valid or not.
3. User can update, Save, Insert and Delete details (CRUD Operations).
4. Saved data is stored in database as well as in csv and xls file.

## Technical Feasibility:

- The proposed system is technically feasible as it does not have high technical demand and the resources are easy to get for the development.
- The system runs on multiple user environments.
- Operating System: windows/mac.
- Front end: Windows Form Application C#
- Back end: C#
- Database: Microsoft SQL Server

## Libraries:

### Microsoft Excel 12.0 object library:

The term Excel Objects (collectively referred to as the Excel Object Model) refers to the entities that make up an Excel workbook, such as Worksheets, Rows, Columns, Cell Ranges, and the Excel Workbook itself. Each object in Excel has a number of Properties, which are stored as a part of that object.

## Components:

### **1. Microsoft Sql Server:**

- It is a software, developed by Microsoft, which is implemented from the specification of RDBMS.
- It is also an ORDBMS.
- It is both GUI and command based software.
- In this project we used this component to store data and perform CRUD operations.

### **2. Microsoft sql Server Management Tool:**

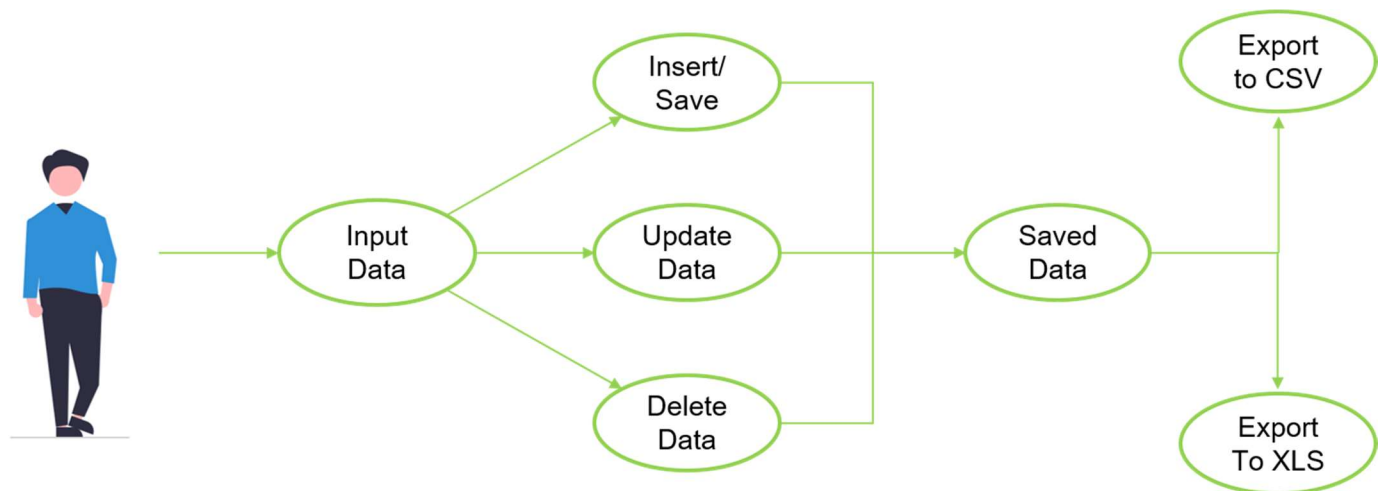
- SQL Server Management Studio is a workstation component that will be installed if we select workstation component in installation steps.

- This allows you to connect to and manage your SQL Server from a graphical interface instead of having to use the command line.

### 3. Windows Form Application:

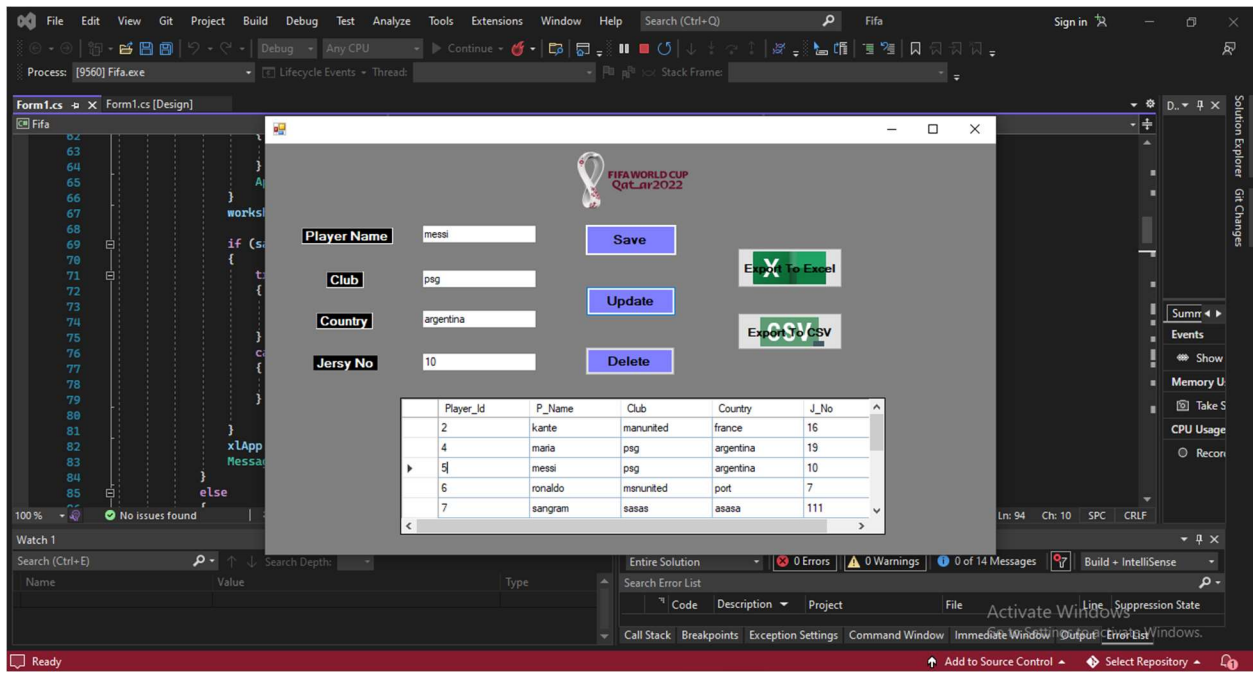
- A windows form application is an application, which is designed to run on a computer.
- Using this we are going to create and design our form and also perform event handling operations.

#### Use Case Diagram:

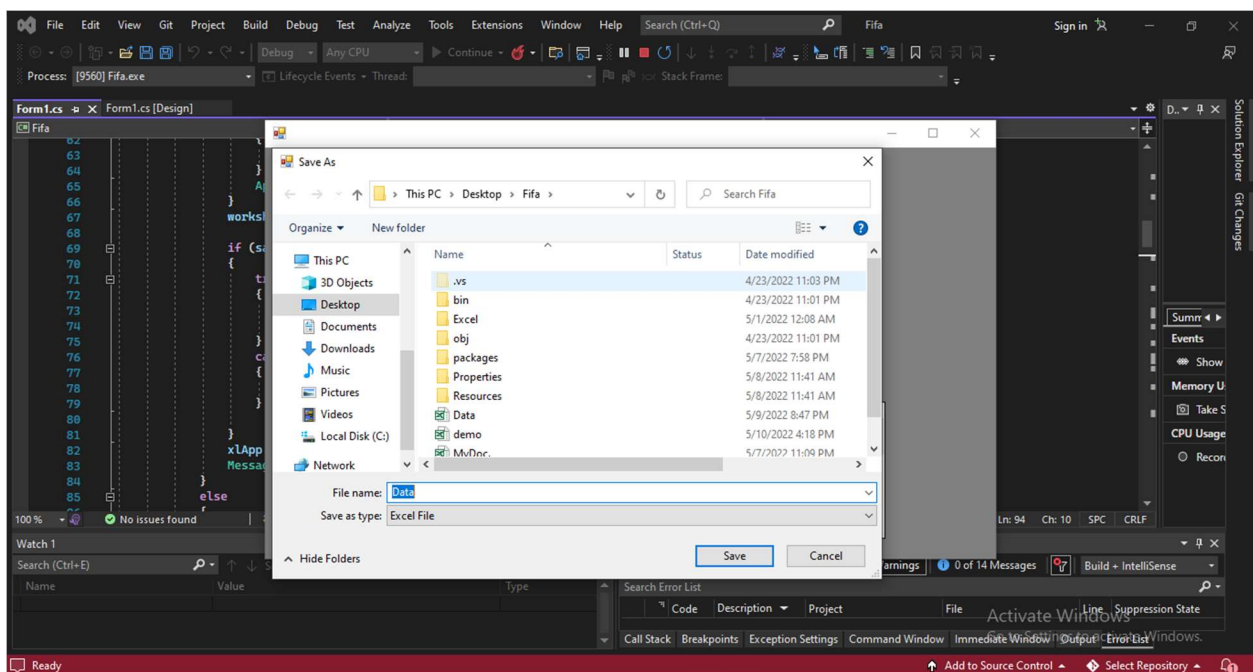


## Output Screens:

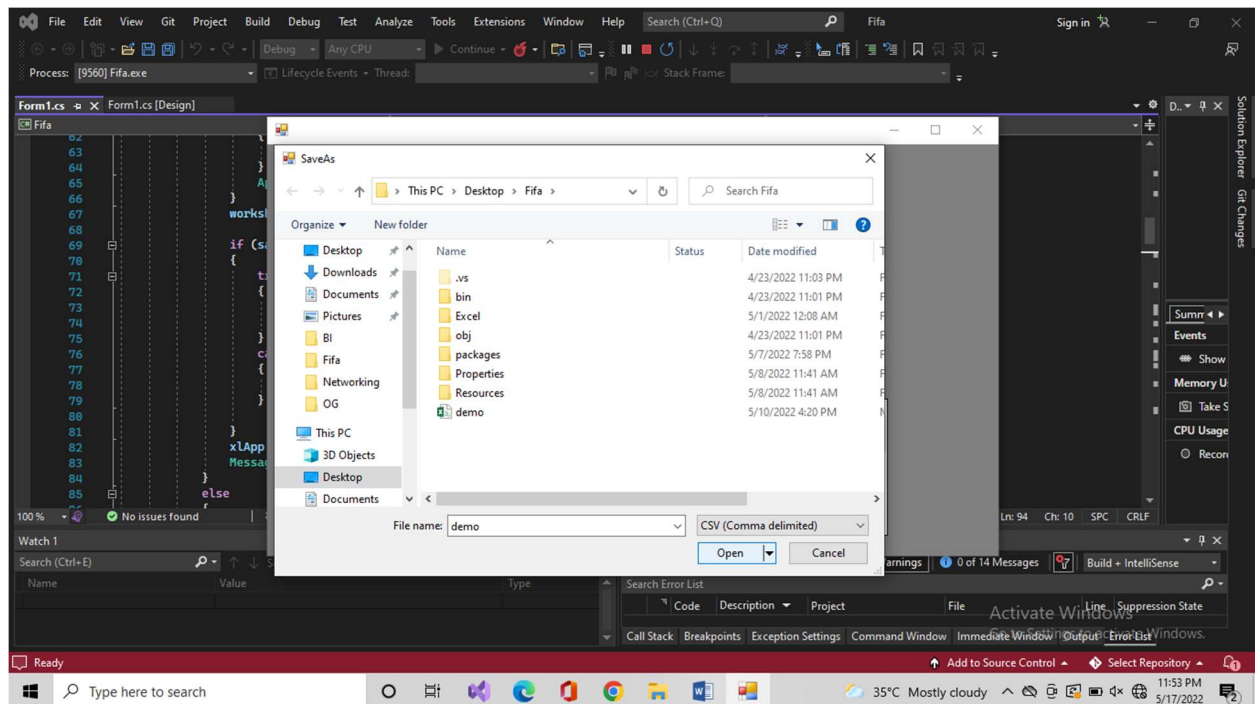
### 1. Performing CRUD Operations (Save/Update/Delete)



### 2. Storing Data in Excel format (.xls file)



### 3. Storing Data in CSV Format (.csv File)



### New Learning:

- CRUD Operations.
- Microsoft Sql Server Management Tool.
- Data Format Conversion.
- Form UI Designing.