

Name: Saar Yaniv

User Manual - Football Management

Our Desktop App - Football Management, created to organize connections between Football Players and Football Teams with Contracts as the representation of the connection between them, Update the Teams details and delete them from the Database, create a contract between Team and a Player and delete it.

Football Management
Information Filtering, BackUp/Restore

Players

Insert Player :

Name :

BirthDate : יוני 05 2008

Price :

Salary :

Matches :

Goals :

Assists :

| PlayerName | PlayerBirthDate | PlayerPrice | PlayerSalary |
|-------------------|-----------------|------------------|------------------|
| Saar | 08/03/1998 | ₪ 76,000,000.00 | ₪ 4,500,000.00 |
| Or | 13/09/1997 | ₪ 100,000,000.00 | ₪ 4,500,000.00 |
| Cristiano Ronaldo | 05/02/1985 | ₪ 90,000,000.00 | ₪ 100,000,000.00 |
| Lautaro Martinez | 22/08/1997 | ₪ 60,000,000.00 | ₪ 7,000,000.00 |

Teams

Insert Team :

Name :

League :

Nation :

Double Click on one of the cells of the teams to update it's details or delete

| TeamName | TeamNation | TeamLeague |
|---------------|------------|------------------------|
| Hapoel Haifa | Israel | Israeli Premier League |
| Inter | Italy | Seria A |
| Real Madrid | Spain | La Liga |
| Maccabi Haifa | Israel | Israeli Premier League |

Contracts Details:

| PlayerName | PlayerBirthDate | PlayerPrice | PlayerSalary | PlayerMatches | PlayerGoals | PlayerAssists | TeamName | TeamNation | TeamLeague |
|-------------------|-----------------|------------------|------------------|---------------|-------------|---------------|---------------|------------|------------------------|
| Cristiano Ronaldo | 05/02/1985 | ₪ 90,000,000.00 | ₪ 100,000,000.00 | 30 | 35 | 2 | Real Madrid | Spain | La Liga |
| Saar | 08/03/1998 | ₪ 76,000,000.00 | ₪ 4,500,000.00 | 35 | 20 | 15 | Hapoel Haifa | Israel | Israeli Premier League |
| Eliel Peretz | 18/11/1996 | ₪ 1,000,000.00 | ₪ 200,000.00 | 30 | 5 | 7 | Hapoel Haifa | Israel | Israeli Premier League |
| Or | 13/09/1997 | ₪ 100,000,000.00 | ₪ 4,500,000.00 | 35 | 10 | 15 | Maccabi Haifa | Israel | Israeli Premier League |
| Lautaro Martinez | 22/08/1997 | ₪ 60,000,000.00 | ₪ 7,000,000.00 | 40 | 27 | 10 | Inter | Italy | Seria A |

You can also Filter Players by their field details in the Database and show the results, and also you can Backup and restore the database in a folder in your pc that you can choose.

Football Management
Information Filtering, BackUp/Restore

| PlayerName | PlayerBirthDate | PlayerPrice | PlayerSalary | PlayerMatches | PlayerGoals | PlayerAssists |
|-------------------|-----------------|------------------|------------------|---------------|-------------|---------------|
| Saar | 08/03/1998 | ₪ 76,000,000.00 | ₪ 4,500,000.00 | 35 | 20 | 15 |
| Or | 13/09/1997 | ₪ 100,000,000.00 | ₪ 4,500,000.00 | 35 | 10 | 15 |
| Cristiano Ronaldo | 05/02/1985 | ₪ 90,000,000.00 | ₪ 100,000,000.00 | 30 | 35 | 2 |
| Lautaro Martinez | 22/08/1997 | ₪ 60,000,000.00 | ₪ 7,000,000.00 | 40 | 27 | 10 |
| Eliel Peretz | 18/11/1996 | ₪ 1,000,000.00 | ₪ 200,000.00 | 30 | 5 | 7 |

Filter Area

Filter By :
☐ Or
☐ And

Name :

Maximum Price :

Maximum Salary :

Minimum Age :

Minimum Matches :

Minimum Goals :

Minimum Assists :

Maximum Age :

First Tab - Information

Players - Group Box

You can create a Player with the details of:


- Name
- Birthdate
- Price
- Salary
- Matches the Player played
- Goals the Player Scored
- Assists the Player Assists to Other Players

Insert Player :

| | | | |
|-----------|----------------------|--|---|
| Name : | <input type="text"/> | BirthDate : | <input type="text" value="05 יוני 2008"/> |
| Price : | <input type="text"/> | Salary : | <input type="text"/> |
| Matches : | <input type="text"/> | Goals : | <input type="text"/> |
| Assists : | <input type="text"/> | <input type="button" value="Insert Player"/> | |


By clicking on the insert Player button, if all the of the fields are valid, the Player you created will be inserted into the Database and you will see a message that shows you that you succeeded.

Insert succeeded

**The following Player was inserted :**
Player :
Name : aaa
Price : 1ש
Salary : 1ש
Birth Date : 05/06/2008 18:54:58
Number of Matches : 1
Number of Goals : 1
Number of Assists : 1

If at least one of the fields is not valid you will see a message that shows you which field it is.

Insert failed

**Not all of the values inserted ,Please type correctly**
Player Name is not valid
Player Price is not valid
Player Salary is not valid
Player Matches is not valid
Player Goals is not valid
Player Assists is not valid

You can't insert negative values in the fields that require numeric values, if you will do it you will get a message.

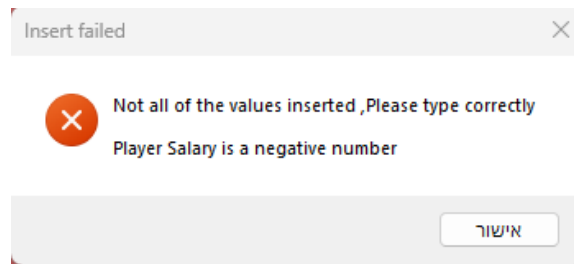


Table that shows all of Players in the Database:

- The button of Refresh Players, refresh the data in the table if there was a change in the Players table in the Database.

- If a Player created in the Database the Table will refresh automatically and will show the new Player in it.

| PlayerName | PlayerBirthDate | PlayerPrice | PlayerSalary |
|-------------------|-----------------|------------------|------------------|
| Saar | 08/03/1998 | ₪ 76,000,000.00 | ₪ 4,500,000.00 |
| Or | 13/09/1997 | ₪ 100,000,000.00 | ₪ 4,500,000.00 |
| Cristiano Ronaldo | 05/02/1985 | ₪ 90,000,000.00 | ₪ 100,000,000.00 |
| Lautaro Martinez | 22/08/1997 | ₪ 60,000,000.00 | ₪ 7,000,000.00 |

Refresh Players

Teams - Group Box

You can create a Team with the details of:


- Name
- Nation of the Team
- League that the Team plays in the Nation
- Image with the logo of the Team


Insert Team :

Name :

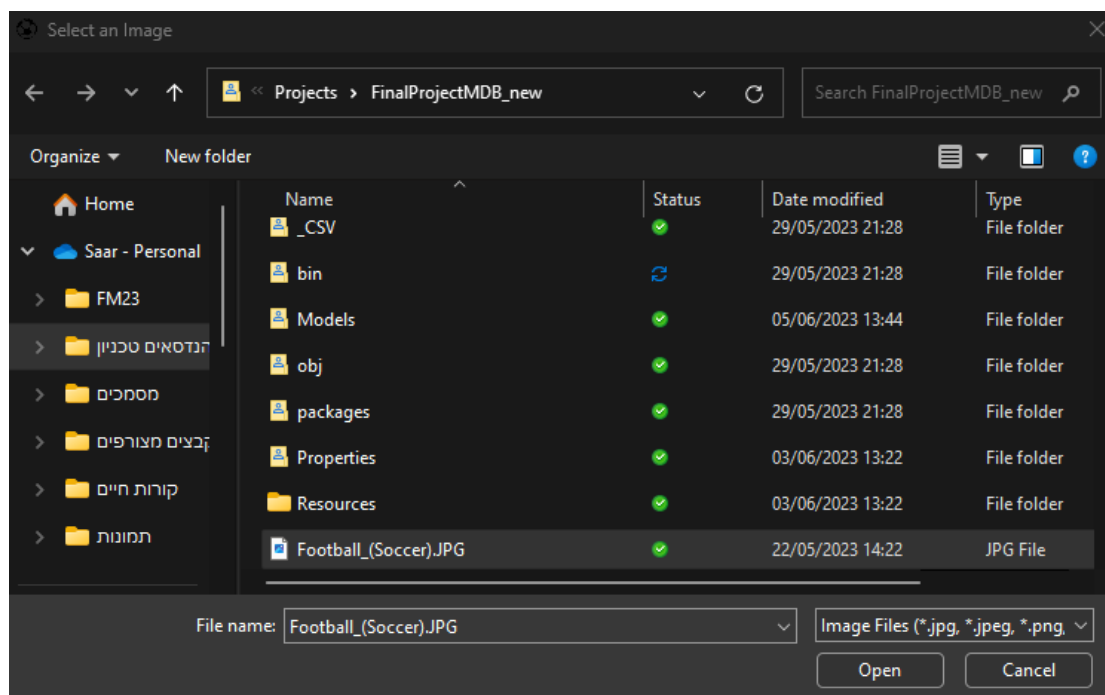
League :

Nation :

 **Insert Team**

 **Upload Image**

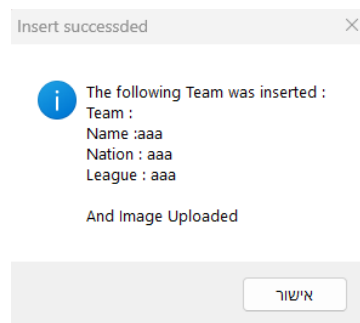
The button of Upload Image - is a button that you can choose from your PC an Image to upload to the Database with the team's details.



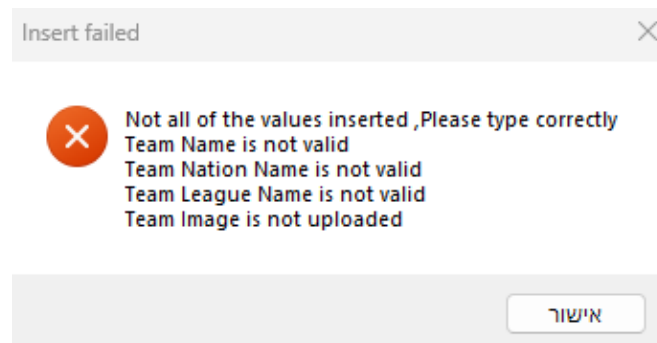
After you choose an Image it will show in the Image place.



After all of the fields are valid and you chose an Image and you will click on the Insert Team button it will upload to the Database with the details and you will see a message.



If at least one of the fields is not valid you will see a message:



Or the Name of the Team is already in a Team in the Database.

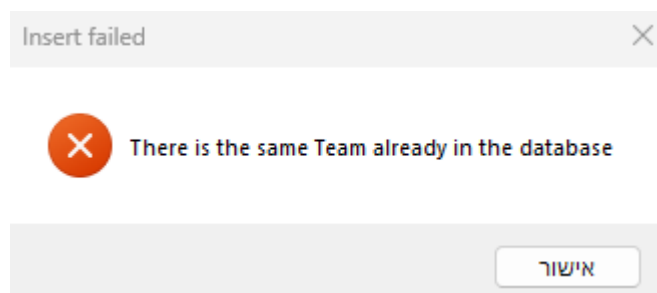


Table that shows all of Teams in the Database:

- The button of Refresh Teams, refresh the data in the table if there was a change in the Teams table in the Database.

- If a Team created in the Database the Table will refresh automatically and will show the new Team in it.

| TeamName | TeamNation | TeamLeague |
|---------------|------------|------------------------|
| Hapoel Haifa | Israel | Israeli Premier League |
| Inter | Italy | Seria A |
| Real Madrid | Spain | La Liga |
| Maccabi Haifa | Israel | Israeli Premier League |

Refresh Teams

An option that you can choose is to double click on one of the rows in the Teams table, and then a window with the Team's details in the row you clicked on will be shown.

UpdateAndDeleteTeam

Team Name :

aaa

Team Nation :

aaa


Team League :

aaa

Team Number of Players :

0

Team Logo :



Update

Upload Image

Delete

The first three fields can be changed to update it in the Database.

Team Name :

aaa

Team Nation :

aaa

Team League :

aaa

Also you can update the Team's Image by clicking this button, and the process is like uploading an Image when you create a Team.

Upload Image

The number of Players that have Contracts with the current Team shown is displayed in this field.

Team Number of Players :

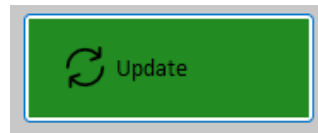
0

If there are more Players then zero that have a Contract with the displayed Team, a table of the Players that have a Contract with the Team will be displayed with their details.

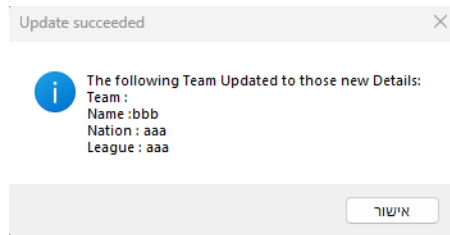
Team Players :

| | PlayerName | PlayerBirthDate | PlayerPrice | PlayerSalary | PlayerMatches | PlayerGoals |
|---|--------------|-----------------|-----------------|----------------|---------------|-------------|
| ▶ | Saar | 08/03/1998 | ₪ 76,000,000.00 | ₪ 4,500,000.00 | 35 | 20 |
| | Eliel Peretz | 18/11/1996 | ₪ 1,000,000.00 | ₪ 200,000.00 | 30 | 5 |

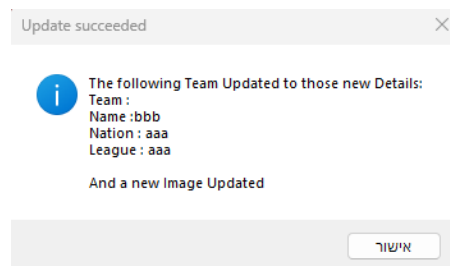
When clicking on the Update button:



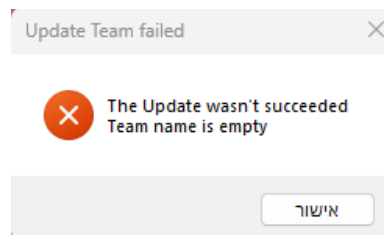
If all of the fields are valid (don't need to update image) you will show this message.



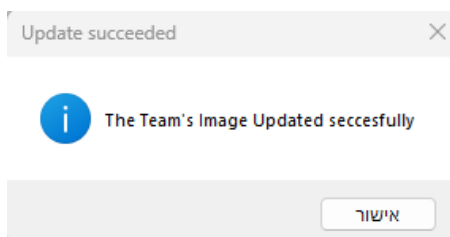
If you will also update the Image you will see that in this message.



If one of the fields (not the image) is not valid you will get a message like this for example:



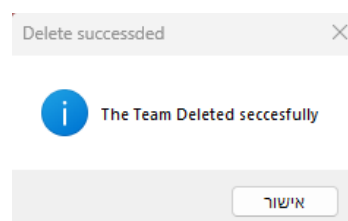
If you want to only update the Image, you can and you will get this message.



If there are no expected errors and all of the fields are valid or the update of the Image was successful, you will return to the main app after you will show the message of successes.

When clicking on the Delete button:

If there are no expected errors, it will show you a message and you will return to the main app.



Contracts - Group Box

You can create a Contract with the details of a specific Player and a specific Team:

- All of the Player's data
- All of the Team's data

Every Player can have a Contract with one Team, but a Team can have different Contracts with no limit of Players. In the Table you can see all of the Contracts that already created with all of the details of the Player and the Team in the Contract.

Contracts Details:

| PlayerName | PlayerBirthDate | PlayerPrice | PlayerSalary | PlayerMatches | PlayerGoals | PlayerAssists | TeamName | TeamNation | TeamLeague |
|-------------------|-----------------|------------------|------------------|---------------|-------------|---------------|---------------|------------|------------------------|
| Cristiano Ronaldo | 05/02/1985 | ₪ 90,000,000.00 | ₪ 100,000,000.00 | 30 | 35 | 2 | Real Madrid | Spain | La Liga |
| Saar | 08/03/1998 | ₪ 76,000,000.00 | ₪ 4,500,000.00 | 35 | 20 | 15 | Hapoel Haifa | Israel | Israeli Premier League |
| Eliel Peretz | 18/11/1996 | ₪ 1,000,000.00 | ₪ 200,000.00 | 30 | 5 | 7 | Hapoel Haifa | Israel | Israeli Premier League |
| Or | 13/09/1997 | ₪ 100,000,000.00 | ₪ 4,500,000.00 | 35 | 10 | 15 | Maccabi Haifa | Israel | Israeli Premier League |
| Lautaro Martinez | 22/08/1997 | ₪ 60,000,000.00 | ₪ 7,000,000.00 | 40 | 27 | 10 | Inter | Italy | Seria A |

Refresh ContractsCreate ContractDelete Contract

Steps to create a Contract between a Player and a Team:

- You need to click on a row that represent a Player in the Players table:

| PlayerName | PlayerBirthDate | PlayerPrice | PlayerSalary |
|-------------------|-----------------|------------------|------------------|
| Saar | 08/03/1998 | ₪ 76,000,000.00 | ₪ 4,500,000.00 |
| Or | 13/09/1997 | ₪ 100,000,000.00 | ₪ 4,500,000.00 |
| Cristiano Ronaldo | 05/02/1985 | ₪ 90,000,000.00 | ₪ 100,000,000.00 |
| Lautaro Martinez | 22/08/1997 | ₪ 60,000,000.00 | ₪ 7,000,000.00 |

- You also need to click on a row that represent the Team in the Teams table:

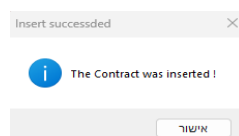
| TeamName | TeamNation | TeamLeague |
|---------------|------------|------------------------|
| Hapoel Haifa | Israel | Israeli Premier League |
| Inter | Italy | Seria A |
| Real Madrid | Spain | La Liga |
| Maccabi Haifa | Israel | Israeli Premier League |

* To see if you clicked on a row in one of tables one of the column headers needs to be colored like in the pictures

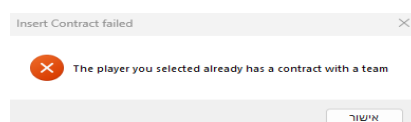
- When the two rows you chosen of a Team and a Player, the button of Create Contract will be enabled:



- When you will click on the button there are two options:
Or you will succeed to create a Contract with this message:

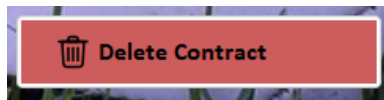


Or you will fail to create a Contract because of the Player you chose from the Players table already have a Contract with a Team:

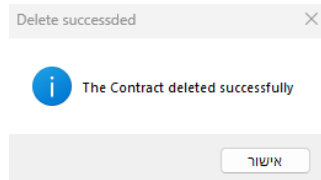


Deleting a Contract:

- When clicking on a row in the Contracts table that represent the Contract you want to delete, the Delete Contract button will be enabled:

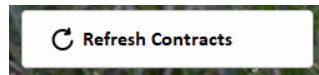


- After you click on the button you will see this message:



Refresh the data in the table:

- If there was a change in the database that you didn't do in the app, but in the mongo DB compass and you want to see the updated data you can click on this button:



Second Tab - Filtering, Back Up\Restore

| PlayerName | PlayerBirthDate | PlayerPrice | PlayerSalary | PlayerMatches | PlayerGoals | PlayerAssists |
|-------------------|-----------------|------------------|------------------|---------------|-------------|---------------|
| Saar | 08/03/1998 | € 76,000,000.00 | € 4,500,000.00 | 35 | 20 | 15 |
| Or | 13/09/1997 | € 100,000,000.00 | € 4,500,000.00 | 35 | 10 | 15 |
| Cristiano Ronaldo | 05/02/1985 | € 90,000,000.00 | € 100,000,000.00 | 30 | 35 | 2 |
| Lautaro Martinez | 22/08/1997 | € 60,000,000.00 | € 7,000,000.00 | 40 | 27 | 10 |
| Eliel Peretz | 18/11/1996 | € 1,000,000.00 | € 200,000.00 | 30 | 5 | 7 |

Refresh Players List

Filter Area

Filter By : ☐ Or ☐ And

Name : Minimum Matches :

Maximum Price : Minimum Goals :

Maximum Salary : Minimum Assists :

Minimum Age : Maximum Age :

Filter Clear BackUp Restore

Filtering

- In this tab the first part of the page is a table of all the Players in the Database with all of their details, the table is for representing the results of your filtering by the Player's field details.
- You have also under the table a refresh button that restore the filter result, to see all of the Players without filtering.
- To filter Players and show the results, first you need to choose between the two buttons of: Or, And
 - * Or is that at least one of the values you chose to filter exists in a Player
 - * And is that all of the values you chose to filter exists in a Player

Filter By : ☐ Or ☐ And

- After you clicked on one of the buttons, you will need to insert the data in the fields you want to filter:
 - * If one of the fields isn't valid or empty, the app will ignore it (text in numeric field, number that is bigger than the maximum value of the type of the value...)
- When you click on the Filter button and at least one of the fields is valid you will see the results in the table: (The Filter button is colored blue, so you can see it the mouse is on it)

| PlayerName | PlayerBirthDate | PlayerPrice | PlayerSalary | PlayerMatches | PlayerGoals | PlayerAssists |
|--------------|-----------------|------------------|----------------|---------------|-------------|---------------|
| Saar | 08/03/1998 | € 76,000,000.00 | € 4,500,000.00 | 35 | 20 | 15 |
| Or | 13/09/1997 | € 100,000,000.00 | € 4,500,000.00 | 35 | 10 | 15 |
| Eliel Peretz | 18/11/1996 | € 1,000,000.00 | € 200,000.00 | 30 | 5 | 7 |

Refresh Players List

Filter Area

Filter By : ☐ Or ☒ And

Name : Minimum Matches :

Maximum Price : Minimum Goals :

Maximum Salary : 6000000 Minimum Assists :

Minimum Age : Maximum Age :

Filter Clear BackUp Restore

- If you want to clear of all of the field you inserted to you can click the Clear button:

Clear

- If there are no results to your filtering values you will see an empty table (Or there are no Players at all in the Database):

| PlayerName | PlayerBirthDate | PlayerPrice | PlayerSalary | PlayerMatches | PlayerGoals | PlayerAssists |
|------------|-----------------|-------------|--------------|---------------|-------------|---------------|
| | | | | | | |

Back UP / Restore

In our app you can backup and restore your Database's data.

First, you need to go to the App.config File in our app, and change some values in it:

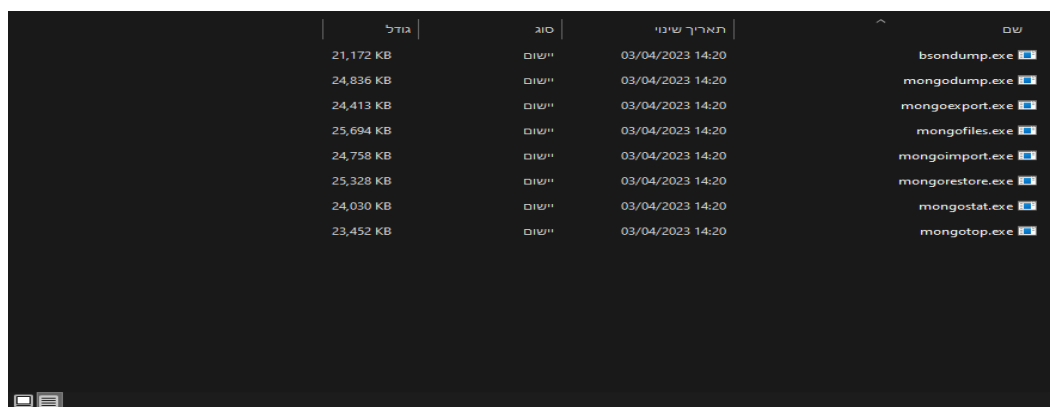
```
<?xml version="1.0" encoding="utf-8"?>
<configuration>
  <connectionStrings>
    <!--The connection is : mongodb://localhost:27017 , and right after that I wrote the database name
    If the database doesn't exist it will create it during the application load-->
    <add name="DatabaseConnection" connectionString="mongodb://localhost:27017/TeamsPlayersContracts" />
  </connectionStrings>

  <appSettings>
    <add key="pathForBackUp" value="C:\MongoDBTools\mongodb-database-tools-windows-x86_64-100.7.0\mongodb-database-tools-windows-x86_64-100.7.0\bin"/>
    <add key="pathForBackUpLocation" value="mongodump --db TeamsPlayersContracts --out C:\MongoDBTools\backUpDatabase"/>
    <add key="pathForRestore" value="C:\MongoDBTools\mongodb-database-tools-windows-x86_64-100.7.0\mongodb-database-tools-windows-x86_64-100.7.0\bin"/>
    <add key="pathForRestoreLocation" value="mongorestore --db TeamsPlayersContracts C:\MongoDBTools\backUpDatabase\TeamsPlayersContracts"/>
  </appSettings>

  <runtime>
    <assemblyBinding xmlns="urn:schemas-microsoft-com:asm.v1">
      <dependentAssembly>
        <assemblyIdentity name="System.Buffers" publicKeyToken="cc7b13fcd2ddd51" culture="neutral" />
        <bindingRedirect oldVersion="0.0.0.0-4.0.3.0" newVersion="4.0.3.0" />
      </dependentAssembly>
      <dependentAssembly>
        <assemblyIdentity name="System.Runtime.CompilerServices.Unsafe" publicKeyToken="b03f5f7f11d50a3a" culture="neutral" />
        <bindingRedirect oldVersion="0.0.0.0-5.0.0.0" newVersion="5.0.0.0" />
      </dependentAssembly>
    </assemblyBinding>
  </runtime>
</configuration>
```

1) The first value you need to change is the: pathForBackUp key's value, you need to go to where your Mongo DB tools is located in your PC, and then go to the bin folder and then you need to see these Files:

- When you came here, copy the path of the folder and put it in the value of pathForBackUp key.



2) The second value you need to change is the pathForBackUpLocation key's value, it's where you want to put your Database back up as a path of the folder you want to store it.

- You need to only change the marked part of the value as you can see here:

```
<add key="pathForBackUpLocation" value="mongodump --db TeamsPlayersContracts --out C:\MongoDBTools\backUpDatabase"/>
```

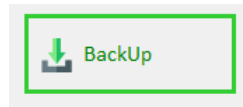
3) The third value you need to change is the pathForRestore key's value, the value is the Same value as the first value you changed of the key - pathForBackUp.

4) The fourth value you need to change is the pathForRestoreLocation key's value, the value is the same as the second value but you need to add to the value this string: "\TeamsPlayersContracts", as this is the folder of the backed up folder of your saved Database.

Now that all of the values changed, you can start backup and restore your data form the Database, to do so:

Backup

- You need to click on the Backup button:



- When you will click on it you will see this message:

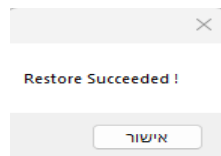


Restore

- You need to click on the Restore button:



- When you will click on it you will see this message:



* After succeed to restore the data you can go to the tables in the first tab to see the data back in the tables as saved in your backup.