# Test Cases

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| --- | --- | --- | --- | --- | --- |
| **Test Case ID** | **Test Case** | **Input data** | **Expected Output** | **Actual Output** | **Pass/**  **Fail** |
| 1 | Create Club (Normal) | Select the option 1 from the menu  Select option 1 from the football club types  Enter the all the prompted information  Repeat this until 3 clubs are created with the details given below  [ Club name: Arsenal  Location: Newcastle  Coach Name: Arsene],  [ Club name: Barnsley  Location: Aston Villa  Coach Name: Mikel],  [ Club name: Liverpool  Location: England  Coach Name: Jurgen] | Displays “Clubs Successfully added!” for both the club details entered | Displays “Clubs Successfully added!” for both the club details entered | Pass |
| 2 | Create Club (University) | Select the option 1 from the menu  Select option 2 from the football club types  Enter the all the prompted information given below  [ Club name: Juventus  Location: Italy  Coach Name: Andrea  University Name: IIT] | Displays “Clubs Successfully added!” | Displays “Clubs Successfully added!” | Pass |
| 3 | Create Club (School) | Select the option 1 from the menu  Select option 3 from the football club types  Enter the all the prompted information given below  [ Club name: Barcelona  Location: Spain  Coach Name: Ronald  School Name: Royal] | Displays “Clubs Successfully added!” | Displays “Clubs Successfully added!” | Pass |
| 4 | Delete Club | Select the option 2 from the menu  Enter “Liverpool” as the club name to be deleted  Enter “y” to confirm the deletion of the respective club. | Display a message that the club was successfully deleted with more details of the deleted club. | Display a message that the club was successfully deleted with more details of the deleted club. | Pass |
| 5 | Display club statistics | Select the option 3 from the menu  Enter “Juventus” as the club name to display the statistics. | Display all the statistics of the club “Juventus” | Display all the statistics of the club “Juventus” | Pass |
| 6 | Display Premier League Table | Select the option 4 from the menu  Enter any season you wish, for an instance “2020-21” | Display an empty table for the season entered. | Display an empty table for the season entered. | Pass |
| 7 | Add Played Match | Select the option 5 from the menu  Add all the following matches by repeatedly selecting the “Add Played Match Option”   |  | | --- | | Club name 1: Arsenal  Goal Scored: 5  Club name 2: Barcelona  Goal Scored: 3  Day: 14  Month: 12  Year: 2020  Select 2020-21 as the season  Enter match type as “Home”  Enter “Y” to make sure that the details entered are correct and to continue | | Club name 1: Arsenal  Goal Scored: 5  Club name 2: Barcelona  Goal Scored: 3  Day: 15  Month: 12  Year: 2020  Select 2020-21 as the season  Enter match type as “Away”  Enter “Y” to make sure that the details entered are correct and to continue | | Club name 1: Arsenal  Goal Scored: 5  Club name 2: Juventus  Goal Scored: 3  Day: 15  Month: 11  Year: 2020  Select 2020-21 as the season  Enter match type as “Away”  Enter “Y” to make sure that the details entered are correct and to continue | | Club name 1: Barcelona  Goal Scored: 3  Club name 2: Arsenal  Goal Scored: 0  Day: 17  Month: 10  Year: 2020  Select 2020-21 as the season  Enter match type as “Home”  Enter “Y” to make sure that the details entered are correct and to continue | | Club name 1: Barcelona  Goal Scored: 10  Club name 2: Juventus  Goal Scored: 8  Day: 12  Month: 8  Year: 2020  Select 2020-21 as the season  Enter match type as “Away”  Enter “Y” to make sure that the details entered are correct and to continue | | Club name 1: Juventus  Goal Scored: 7  Club name 2: Barnsley  Goal Scored: 8  Day: 7  Month: 8  Year: 2020  Select 2020-21 as the season  Enter match type as “Home”  Enter “Y” to make sure that the details entered are correct and to continue | | Club name 1: Barnsley  Goal Scored: 0  Club name 2: Juventus  Goal Scored: 0  Day: 14  Month: 12  Year: 2020  Select 2020-21 as the season  Enter match type as “Away”  Enter “Y” to make sure that the details entered are correct and to continue | | Club name 1: Barnsley  Goal Scored: 2  Club name 2: Juventus  Goal Scored: 2  Day: 15  Month: 12  Year: 2020  Select 2020-21 as the season  Enter match type as “Home”  Enter “Y” to make sure that the details entered are correct and to continue | | Club name 1: Barnsley  Goal Scored: 3  Club name 2: Juventus  Goal Scored: 3  Day: 14  Month: 12  Year: 2020  Select 2020-21 as the season  Enter match type as “Home”  Enter “Y” to make sure that the details entered are correct and to continue | | Club name 1: Barnsley  Goal Scored: 2  Club name 2: Juventus  Goal Scored: 2  Day: 15  Month: 12  Year: 2020  Select 2020-21 as the season  Enter match type as “Away”  Enter “Y” to make sure that the details entered are correct and to continue | | Club name 1: Barnsley  Goal Scored: 1  Club name 2: Juventus  Goal Scored: 1  Day: 13  Month: 12  Year: 2020  Select 2020-21 as the season  Enter match type as “Away”  Enter “Y” to make sure that the details entered are correct and to continue | | Club name 1: Barnsley  Goal Scored: 2  Club name 2: Juventus  Goal Scored: 2  Day: 11  Month: 10  Year: 2020  Select 2020-21 as the season  Enter match type as “Home”  Enter “Y” to make sure that the details entered are correct and to continue | | Club name 1: Barnsley  Goal Scored: 5  Club name 2: Juventus  Goal Scored: 5  Day: 10  Month: 10  Year: 2020  Select 2020-21 as the season  Enter match type as “Away”  Enter “Y” to make sure that the details entered are correct and to continue | | Club name 1: Barnsley  Goal Scored: 1  Club name 2: Juventus  Goal Scored: 1  Day: 13  Month: 12  Year: 2020  Select 2020-21 as the season  Enter match type as “Away”  Enter “Y” to make sure that the details entered are correct and to continue | | Club name 1: Barnsley  Goal Scored: 5  Club name 2: Barcelona  Goal Scored: 5  Day: 17  Month: 11  Year: 2020  Select 2020-21 as the season  Enter match type as “Home”  Enter “Y” to make sure that the details entered are correct and to continue | | Club name 1: Barnsley  Goal Scored: 6  Club name 2: Barcelona  Goal Scored: 6  Day: 14  Month: 12  Year: 2020  Select 2020-21 as the season  Enter match type as “Away”  Enter “Y” to make sure that the details entered are correct and to continue | | Club name 1: Barnsley  Goal Scored: 4  Club name 2: Barcelona  Goal Scored: 4  Day: 18  Month: 12  Year: 2020  Select 2020-21 as the season  Enter match type as “Home”  Enter “Y” to make sure that the details entered are correct and to continue | | Club name 1: Barnsley  Goal Scored: 2  Club name 2: Barcelona  Goal Scored: 2  Day: 14  Month: 12  Year: 2020  Select 2020-21 as the season  Enter match type as “Away”  Enter “Y” to make sure that the details entered are correct and to continue | | Display the following message  “Match Successfully added!” for each of the matches added | Display the following message  “Match Successfully added!” for each of the matches added | Pass |
| 8 | Display Club Statistics | Select the option 3 from the menu  Enter “Juventus” as the club name to display the statistics. | Display all the statistics of the club “Juventus” | Display all the statistics of the club “Juventus” | Pass |
| 9 | Display Club Statistics | Select the option 3 from the menu  Enter “Arsenal” as the club name to display the statistics. | Display all the statistics of the club “Arsenal” | Display all the statistics of the club “Arsenal” | Pass |
| 10 | Display Club Statistics | Select the option 3 from the menu  Enter “Barcelona” as the club name to display the statistics. | Display all the statistics of the club “Barcelona” | Display all the statistics of the club “Barcelona” | Pass |
| 11 | Display Club Statistics | Select the option 3 from the menu  Enter “Barnsley” as the club name to display the statistics. | Display all the statistics of the club “Barnsley” | Display all the statistics of the club “Barnsley” | Pass |
| 12 | Display Premier League Table | Select the option 4 from the menu  Enter “2020-21” as the season | Displays the Premier League Table for the season 2020-21 sort in descending order of points | Displays the Premier League Table for the season 2020-21 sort in descending order of points | Pass |
| 13 | Add Played Match | Select the option 5 from the menu  Add all the following matches by repeatedly selecting the “Add Played Match Option” for other seasons   |  | | --- | | Club name 1: Juventus  Goal Scored: 9  Club name 2: Barcelona  Goal Scored: 6  Day: 20  Month: 12  Year: 2020  Select 2019-20 as the season  Enter match type as “Away”  Enter “Y” to make sure that the details entered are correct and to continue | | Club name 1: Barnsley  Goal Scored: 6  Club name 2: Juventus  Goal Scored: 4  Day: 14  Month: 12  Year: 2020  Select 2019-20 as the season  Enter match type as “Away”  Enter “Y” to make sure that the details entered are correct and to continue | | Club name 1: Arsenal  Goal Scored: 5  Club name 2: Juventus  Goal Scored: 1  Day: 22  Month: 10  Year: 2020  Select 2019-20 as the season  Enter match type as “Home”  Enter “Y” to make sure that the details entered are correct and to continue | | Club name 1: Juventus  Goal Scored: 3  Club name 2: Juventus  Goal Scored: 2  Day: 10  Month: 11  Year: 2018  Select 2018-19 as the season  Enter match type as “Home”  Enter “Y” to make sure that the details entered are correct and to continue | | Display the following message  “Match Successfully added!” for each of the matches added | Display the following message  “Match Successfully added!” for each of the matches added | Pass |
| 14 | Display Club Statistics | Select the option 3 from the menu  Enter “Juventus” as the club name to display the statistics.  Repeat this process for the other clubs such as “Barcelona”, “Barnsley”, “Arsenal” | Display all the statistics of the club “Juventus”  Display all the statistics of the club “Barcelona”  Display all the statistics of the club “Barnsley”  Display all the statistics of the club “Arsenal” | Display all the statistics of the club “Juventus”  Display all the statistics of the club “Barcelona”  Display all the statistics of the club “Barnsley”  Display all the statistics of the club “Arsenal” | Pass |
| 15 | Display Premier League Table | Select the option 4 from the menu  Enter “2019-20” as the season | Displays the Premier League Table for the season 2019-20 sort in descending order of points | Displays the Premier League Table for the season 2019-20 sort in descending order of points | Pass |
| 16 | Display Premier League Table | Select the option 4 from the menu  Enter “2018-19” as the season | Displays the Premier League Table for the season 2018-19 sort in descending order of points | Displays the Premier League Table for the season 2018-19 sort in descending order of points | Pass |
| 17 | Display GUI | Select the option 6 from the menu | Displays message “Opening the GUI at localhost: 4200”  The GUI opens in a new tab in the web browser. | Displays message “Opening the GUI at localhost: 4200”  The GUI opens in a new tab in the web browser. | Pass |
| 18 | Display table in the GUI | Select the “tables” option from the nav bar from the GUI | This displays a scrollable record table with the options such as sort by points, goals scored and wins. Moreover, it has an option to select the season to display the records. | This displays the table with the options such as sort by points, goals scored and wins. Moreover, it has an option to select the season to display the records. | Pass |
| 19 | Display matches in the GUI | Select the “matches” option from the nav bar from the GUI | This displays a scrollable list of matches and the user will have the option to search matches by “date” and also select matches by season, Moreover the user is also able to generate a match as well. | This displays a scrollable list of matches and the user will have the option to search matches by “date” and also select matches by season, Moreover the user is also able to generate a match as well. | Pass |
| 20 | Save data to file | Select the option 7 from the menu. | This will display the following message if there are no exceptions caused  “Saving the data . . .”  “Successfully saved!”  The data will be stored into the text file | This will display the following message if there are no exceptions caused  “Saving the data . . .”  “Successfully saved!”  The data will be stored into the text file | Pass |
| 21 | Clear data from file | Select the option 8 from the menu | This will display the following message if there are no exceptions caused  “Clearing the contents of the file”  “Successfully cleared the file details”  All the data from the text file will be cleared | This will display the following message if there are no exceptions caused  “Clearing the contents of the file”  “Successfully cleared the file details”  All the data from the text file will be cleared | Pass |
| 22 | Exit Program | Select the option 9 from the menu.  Enter “y” to confirm that you want to exit | This will display the following message  “Saving data ...”  “Exiting program…”  The program will exit | This will display the following message  “Saving data ...”  “Exiting program…”  The program will exit | Pass |

# Validation Test Cases

(make sure the txt file is empty before running these tests)

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| --- | --- | --- | --- | --- | --- |
| **Test Case ID** | **Test Case** | **Input data** | **Expected Output** | **Actual Output** | **Pass/**  **Fail** |
| 1 | Validating the menu options. | 10 | Displays the message below  “You have entered an invalid option! Please check the menu properly and re-enter!”  And asks for user input again | Displays the message below  “You have entered an invalid option! Please check the menu properly and re-enter!”  And asks for user input again | Pass |
| 2 | Validating Integers. | 1.2 | Displays the message below  “Invalid input, please enter a valid integer!” | Displays the message below  “Invalid input, please enter a valid integer!” | Pass |
| 3 | Validating same club names entered again to create a new club | Select the Option 1 from the menu and again select option 1 for normal football club and create a club with the name “Juventus” and fill all the other prompts with any random data.  Again, select Option 1 and create a club with the same name “Juventus” | Displays the message below  “There is already a team with the name 'Juventus', please enter another name  ”  And asks for user input again | Displays the message below  “There is already a team with the name 'Juventus', please enter another name  ”  And asks for user input again | Pass |
| 4 | Validating same club names entered twice for adding a played match | Select the Option 1 from the menu and again select option 1 for normal football club and create a club with the name “Barca” and fill all the other prompts with any random data.  Select Option 5 and added the first club name as “Juventus” with any score and again “Juventus” for the other(opponent) club name as well. | Displays the message below  “There should be two different clubs to play a match and you have entered the same club twice!  Please enter a different club name!”  And asks for user input again | Displays the message below  “There should be two different clubs to play a match and you have entered the same club twice!  Please enter a different club name!”  And asks for user input again | Pass |
| 5 | Validating clubs entered for add played matches, checks if the club name entered is valid | Select the option 5 from the menu.  For the club name 1, enter “Manchester” | Displays the message below  “There is no team with the name 'Manchester', please enter another name”  And asks for the user input again. | Displays the message below  “There is no team with the name 'Manchester', please enter another name”  And asks for the user input again. | Pass |
| 6 | Validating the day entered with a valid range or not | Select the option 5  Enter the first club name as “Juventus” with any random score  Enter the second club name as “Barca” with any random score  Enter -5 or 35 for the day input | Displays the message below  “Invalid day entered, day entered should be with in the range of (1 to 31)!”  And asks for the user input again. | Displays the message below  “Invalid day entered, day entered should be with in the range of (1 to 31)!”  And asks for the user input again. | Pass |
| 7 | Validating the month entered with a valid range or not | Select the option 5  Enter the first club name as “Juventus” with any random score  Enter the second club name as “Barca” with any random score  Enter 14 for the day input  Enter -5 or 13 for the month | Displays the message below  “Invalid month entered, month entered should be with in the range of (1 to 12)!  And asks for the user input again. | Displays the message below  “Invalid month entered, month entered should be with in the range of (1 to 12)!”  And asks for the user input again. | Pass |
| 8 | Validating the year entered with a valid range or not (assumed range 1000 - 3000) | Select the option 5  Enter the first club name as “Juventus” with any random score  Enter the second club name as “Barca” with any random score  Enter 14 for the day input  Enter 12 for the month input  Enter 999 or 3001 for the year | Displays the message below  “Invalid year entered, year entered should be with in the range of (1000 to 3000)!”  And asks for the user input again. | Displays the message below  “Invalid year entered, year entered should be with in the range of (1000 to 3000)!”  And asks for the user input again. | Pass |
| 9 | Validating the season selected by the user when adding a played match | Select the option 5  Enter the first club name as “Juventus” with any random score  Enter the second club name as “Barca” with any random score  Enter 14 for the day input  Enter 12 for the month input  Enter 2020 for the year  Enter any number other than 1 and 2 for the, select season option | Displays the message below  “Invalid Input, please only enter either '1' or '2' as the season option!”  And asks for the user input again. | Displays the message below  “Invalid Input, please only enter either '1' or '2' as the season option!”  And asks for the user input again. | Pass |
| 10 | Validating the type of match played | Select the option 5  Enter the first club name as “Juventus” with any random score  Enter the second club name as “Barca” with any random score  Enter 14 for the day input  Enter 12 for the month input  Enter 2020 for the year  Enter 1 for the select season option  Enter any thing other than “home” and “away” for the type of match played | Displays the message below  “Invalid match input, please only enter either 'HOME' or 'AWAY' as the match type!”  And asks for the user input again. | Displays the message below  “Invalid match input, please only enter either 'HOME' or 'AWAY' as the match type!”  And asks for the user input again. | Pass |
| 11 | Validating season entered for displaying the premier league table | Select option 4 from the menu and enter ‘20-2021’ as the season input | Displays the message below  “Given input is not in proper format, use this format please (0000-00) with integers only!  Season played (eg:- '2018-19')”  And asks for the user input again. | Displays the message below  “Given input is not in proper format, use this format please (0000-00) with integers only!  Season played (eg:- '2018-19')”  And asks for the user input again | Pass |
| 12 | Validating Strings inputs | Select the Option 1 from the menu and again select option 1 for normal football club and create a football club with:  Club name: n@12x | Displays the message below  “Given input is not in proper format, only include alphabets please!”  And asks for the user input again. | Displays the message below  “Given input is not in proper format, only include alphabets please!”  And asks for the user input again. | Pass |
| 13 | Validating Club Names when creating new Clubs | Select the Option 1 from the menu and again select option 1 for normal football club and create a football club with:  Club name: aVeNgErS  Location: Spain  Coach Name: Nazhim  Select the Option 4 and enter the season as “2020-21” | Displays the club name entered by user as “aVeNgErS” into “Avengers” in a proper format in the table | Displays the club name entered by user as “aVeNgErS” into “Avengers” in a proper format in the table | Pass |
| 14 | Validating adding match when there is only one club present | Select the Option 8 to clear all the data from the file.  Select the Option 1 from the menu and again select option 1 for normal football club and create a club with the name “Barca” and fill all the other prompts with any random data.  Select the Option 5 from the menu. | Displays the message “Sorry there is only 1 club present currently, so a match can't be played!” and returns the main menu | Displays the message “Sorry there is only 1 club present currently, so a match can't be played!” and returns the main menu | Pass |