Testing

When starting program for first time, populates with 1 admin user only. All other data must be added.

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| **Test Case** | **Action** | **Expected Result** | **Actual Result** | **Result** |
| 1 | Enter no info for username and password | Invalid entry display | Invalid entry display | Pass |
| 2 | Enter valid username, invalid password  Username: js1  Password: aaa | Invalid password display | Invalid password display | Pass |
| 3 | Enter valid username and password (admin user)  Username: js1  Password: admin1 | Admin menu displays | Null pointer exception occurs | Fail |
| 4 | Click add user button  Click view/edit user button  Click add squad button  Click view/edit squad button  Click add member button  Click view/edit member button | Add user JFrame opens  Edit user JFrame opens  Add squad JFrame opens  Edit squad JFrame opens  Add member JFrame opens  Edit member JFrame opens  Menu button in each returns to menu | Add user JFrame opens  Edit user JFrame opens  Add squad JFrame opens  Edit squad JFrame opens  Add member JFrame opens  Edit member JFrame opens  Menu button in each returns to menu | Pass |
| 5 | Click logout button  Enter no info  Click login | Login page opens, invalid entry message displays if no information entered | Login page opens, invalid entry message displays if no information entered | Pass |
| 6 | Click submit to add user without entering info | Invalid entry message displays | Invalid entry message displays | Pass |
| 7 | Click submit to add squad without entering info | Invalid entry message displays | Invalid entry message displays | Pass |
| 8 | Click submit to add member without entering info | Invalid entry message displays | Invalid entry message displays | Pass |
| 9 | Attempt to create user with taken username  First name: tom  Last name: hardy  Username: js1  Password: coach1  Usertype: coach | Username taken message displays | User added message displays | Fail |
| 10 | Create 2 coach users  First name: Tom  Last name: hardy  Username: th1  Password: coach1  User type: coach  First name: Ian  Last name: James  Username: ij1  Password: coach2  User type: coach | User added message displays for both | User added message displays for both | Pass |
| 11 | Attempt to delete js1 | Last admin, cannot delete message displays | Last admin, cannot delete message displays | Pass |
| 12 | Change ij1 last name to jim | User changed message displays, last name successfully changed | No message displays, no change to user. | Fail |
| 13 | Create senior squad  Squad name: Sharks  Coach: th1  Team type: senior | Squad added message displays | Squad added message displays | Pass |
| 14 | Edit squad  Change team name: Dolphins | Squad updated message displays, team name changed | Squad updated message displays, team name changed | Pass |
| 15 | Create member  First name: Paul  Last name: Simon | Member added message displays | Member added message displays | Pass |
| 16 | Edit member  Change last name: Garfunkel | Member updated message displays, member last name changed | Member updated message displays, member last name changed | Pass |
| 17 | Close app, reopen. Check data persists | All data added still present | All data added still present | Pass |
| 18 | Log in as th1, ij1  Username: th1  Password: coach1  Username: ij1  Password: coach2  Click each button | Coach menu displays  Add player opens add player screen, view/edit players opens edit player screen, my squad opens my squad for th1 only and message displays for ij1, view/edit my squad opens for th1 only and message displays for ij1, Logout takes back to login screen | Coach menu displays  Add player opens add player screen, view/edit players opens edit player screen, my squad opens my squad for th1 only and message displays for ij1, view/edit my squad opens for th1 only and message displays for ij1, Logout takes back to login screen | Pass |
| 19 | Attempt to create 2 players with same SRU number  First name: Adam  Last name: ladam  SRU number: 123456  Team type: senior  Position: scrum-half  First name: Paul  Last name: Boy  SRU number: 123456  Team type: senior  Position: Outside Centre | Adam Ladam added to system. Player already in system message displays for second player. | Adam Ladam added to system. Player already in system message displays for second player. | Pass |
| 20 | Add second senior player with different SRU number  First name: paul  Last name: boy  SRU number: 123466  Team type: senior  Position: Outside Centre | Paul Boy added to players message displays | Paul Boy added to players message displays | Pass |
| 21 | Attempt to add a junior without entering a guardian name  First name: Ryan  Last name: Bryan  SRU number: 147258  Team type: junior  Position: hooker | Invalid entry message displays, guardian name must be entered | Invalid entry message displays, guardian name must be entered | Pass |
| 22 | Add junior with entering a guardian name  First name: Ryan  Last name: Bryan  SRU number: 147258  Team type: junior  Position: hooker  Guardian name: Jane Fonda | Ryan Bryan added to juniors message displays | Ryan Bryan added to juniors message displays | Pass |
| 23 | Set skill ratings and notes for Adam Ladam and Paul Boy  All skills for Adam set to 3 and all notes to mediocre.  All skills for Paul set to 2 and set all notes to poor | Player skills updated successfully message displays | Message displays to select user before changing skills displays | Fail |
| 24 | Select each player and click view details | Each player details, skill ratings and notes displays correctly | Each player details display correctly, rating and notes change for first player but stay the same for each other player | Fail |
| 25 | Add senior players to Dolphins team in view/edit squad screen | Players added successfully, do not show as available players | Players added successfully, do not show as available players | Pass |
| 26 | Click view info for each player in my squad screen | Each selected player skill rating and notes displays | Each selected player skill rating and notes displays | Pass |
| 27 | Remove Paul Boy from squad in view/edit squad screen | Player no longer in squad, available to be added to squads again | Player no longer in squad, available to be added to squads again | Pass |
| 28 | In view/edit players, select Adam Ladam and delete | Player deleted message displays. Player not in squad and not available to be added to squad | Player deleted message displays. Player not in squad and not available to be added to squad | Pass |
| 29 | Login as js1, create a junior squad  Squad name: Minnows  Coach: ij1  Team type: junior | Squad added successfully message displays | Squad added successfully message displays | Pass |
| 30 | Login as ij1, add Ryan Bryan player to Minnows | Player added to squad message displays | Player added to squad message displays | Pass |

Fixes

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| **Test Case** | **Action** | **Expected Result** | **Actual Result** | **Result** |
| 3 | Enter valid username and password (admin user)  Username: js1  Password: admin1 | Admin menu displays | Admin menu displays | Pass |

App tries to serialize each time menu is created. This was being called before theController = cont; line meaning that the variable theController = null. Moved method call for serialize to be placed after this.

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| **Test Case** | **Action** | **Expected Result** | **Actual Result** | **Result** |
| 9 | Attempt to create user with taken username  First name: tom  Last name: hardy  Username: js1  Password: coach1  Usertype: coach | Username taken message displays | Username taken message displays | Pass |

Added code to check through users to see if any user already has that username

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| **Test Case** | **Action** | **Expected Result** | **Actual Result** | **Result** |
| 12 | Change ij1 last name to jim | User changed message displays, last name successfully changed | User changed message displays, last name successfully changed | Pass |

Validation was looking to change information if selected user button had not been clicked for user. Corrected this and added message output for if selected user button had not been clicked for user wishing to be changed.

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| --- | --- | --- | --- | --- |
| **Test Case** | **Action** | **Expected Result** | **Actual Result** | **Result** |
| 23 | Set skill ratings and notes for Adam Ladam and Paul Boy  All skills for Adam set to 3 and all notes to mediocre.  All skills for Paul set to 2 and set all notes to poor | Player skills updated successfully message displays | Player skills updated successfully message displays | Pass |

Found that the check to see if player selected was the same as player stored in system was checking name and number against only name. Changed to check only name.

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| **Test Case** | **Action** | **Expected Result** | **Actual Result** | **Result** |
| 24 | Select each player and click view details | Each player details, skill ratings and notes displays correctly | Each player details, skill ratings and notes displays correctly | Pass |

Found that the for loop for storing the skills in the linkedlist will only run if the list is not already filled with data. Added code to clear the linkedlist each time to remove this issue.