NBA Membership Application

User Documentation

18 June 2018

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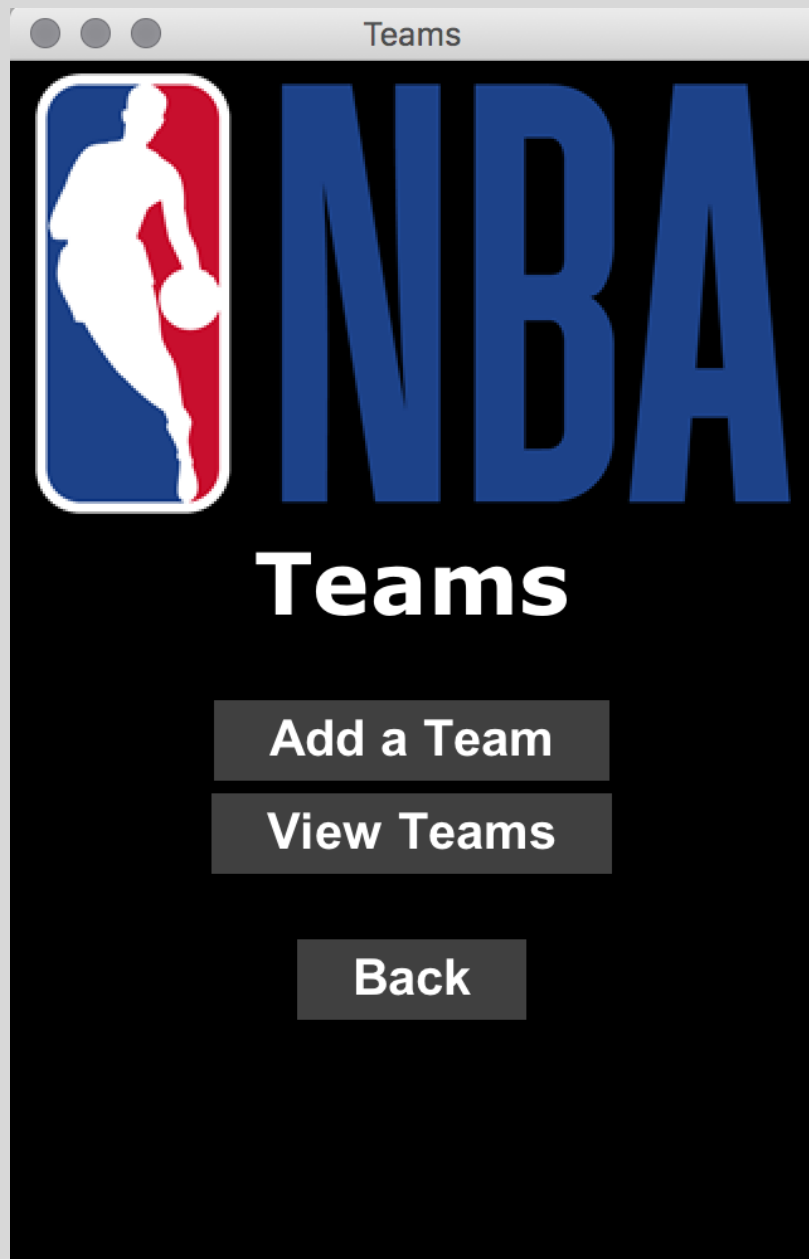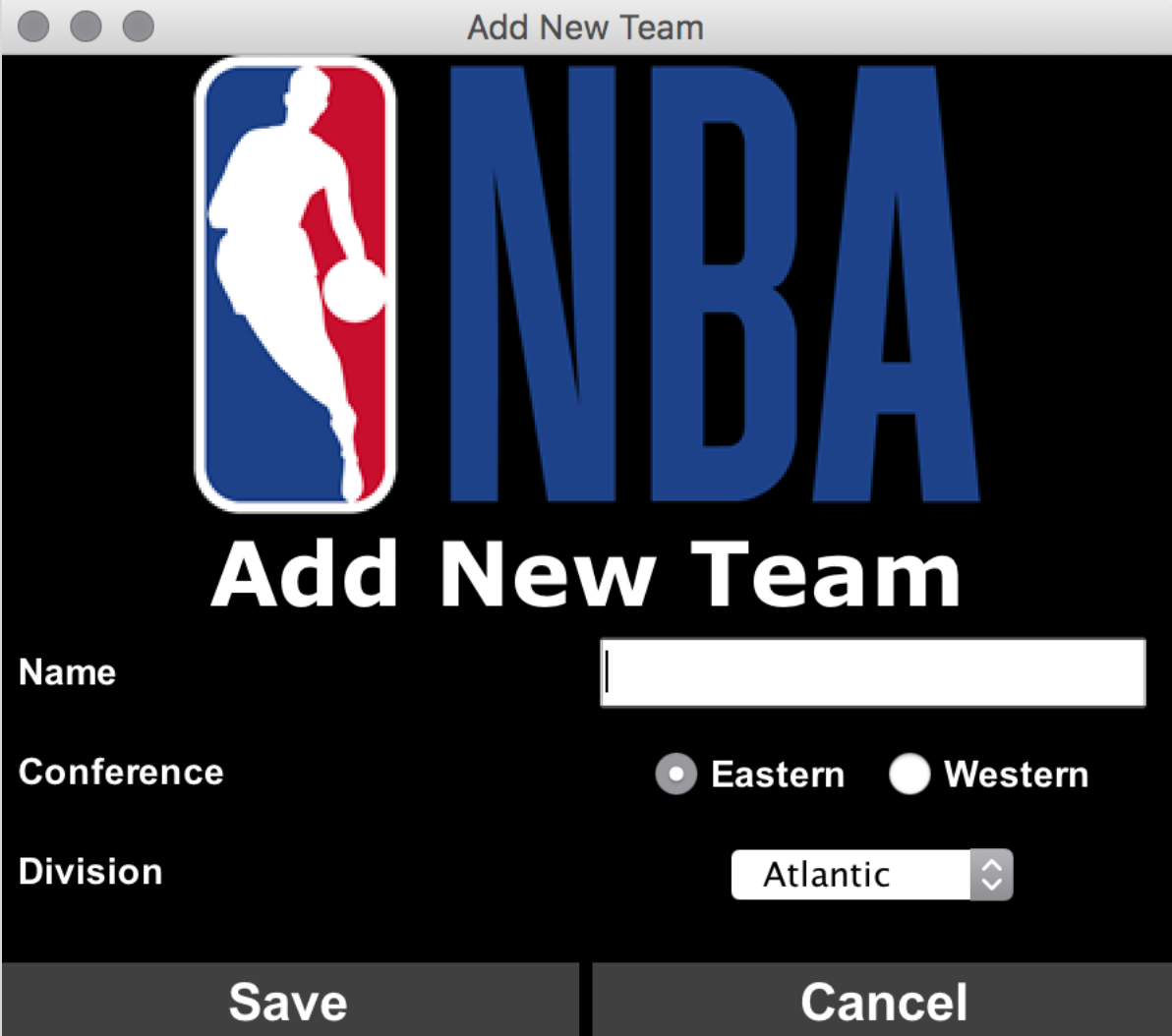
Main Menu

1. Teams will close this menu and open up the Teams Menu.
2. Players will close this menu and open up the Players Menu.
3. Coaches will close this menu and open up the Coaches menu.
4. Backup Database will back up all data from the database to binary files on the computer. It is recommended to backup the database this way at the end of each session in the application.
5. Restore Database will take the data from the backup files on the computer and add each Player, Coach, and Team to the database. This only needs to be done if the database has been compromised.
6. Help opens this file.
7. The top left button on the window frame is the only way to exit the program.

Team Menu

1. Add a Team will close this menu and open a new window to input details for a new team.
2. View Teams will close this menu and open a new window with all teams in the database displayed in a table.
3. Back will close this menu and go back to the Main Menu.

1. Enter a unique Team Name into the text input box. The name must not contain numbers or more than 3 whitespaces.
2. Select the Conference (Eastern or Western).
3. The Division select menu will change depending on the Conference selected.
4. Select the appropriate Division from the select menu.
5. Click Save to save the Team to the database. If user input is invalid, a message will display.
6. Click Cancel to return to the Team Menu and not save a new Team to the database.
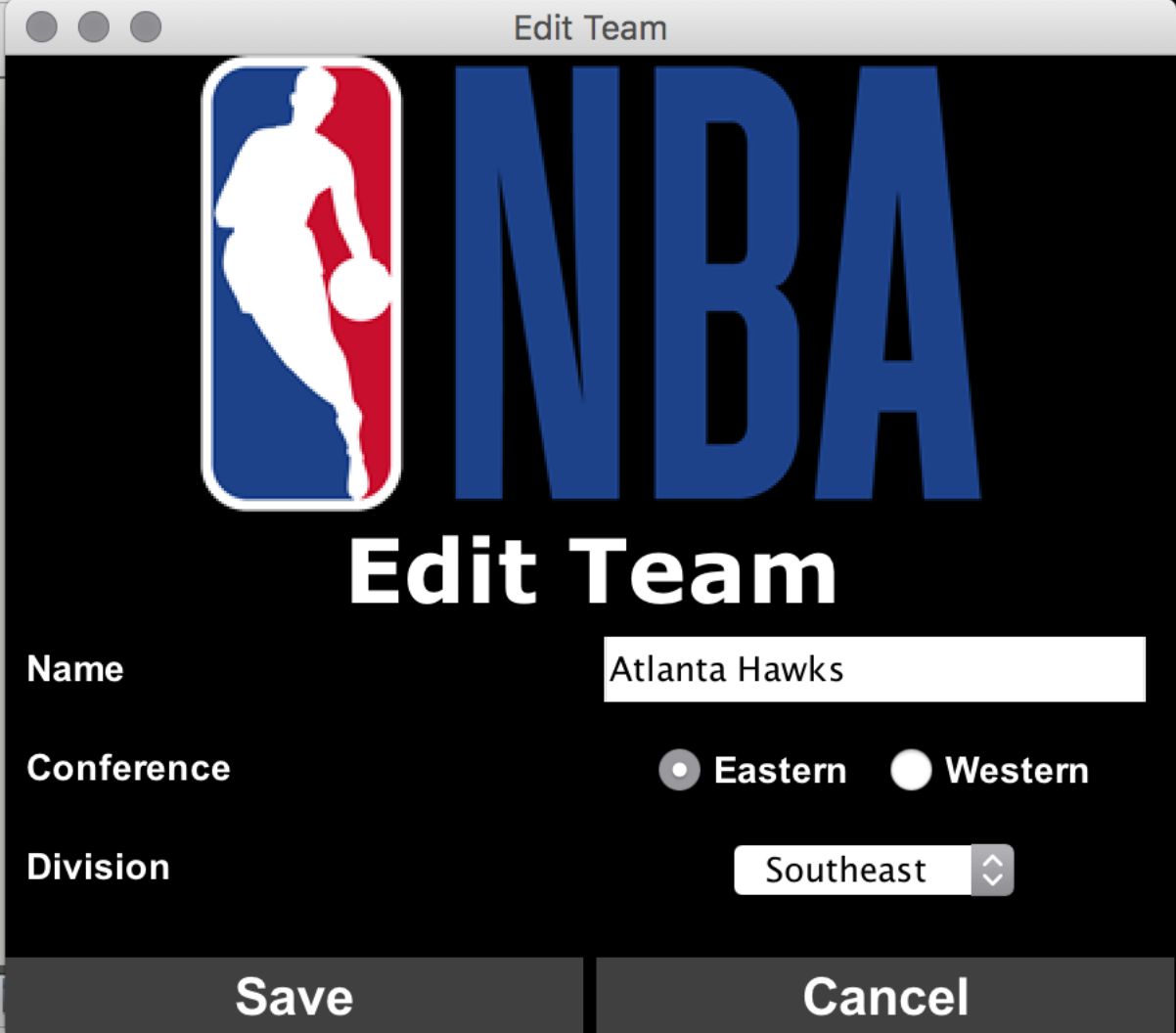
View Teams Window

Name	Conference	Division
Atlanta Hawks	Eastern	Southeast
Boston Celtics	Eastern	Atlantic
Brooklyn Nets	Eastern	Atlantic
Charlotte Hornets	Eastern	Southeast
Chicago Bulls	Eastern	Central
Cleveland Cavaliers	Eastern	Central
Dallas Mavericks	Western	Southwest
Denver Nuggets	Western	Northwest
Detroit Pistons	Eastern	Central
Golden State Warriors	Western	Pacific
Houston Rockets	Western	Southwest
Indiana Pacers	Eastern	Central
LA Clippers	Western	Pacific
Los Angeles Lakers	Western	Pacific
Memphis Grizzlies	Western	Southwest
Miami Heat	Eastern	Southeast
Milwaukee Bucks	Eastern	Central
Minnesota Timberwolves	Western	Northwest
New Orleans Pelicans	Western	Southwest
New York Knicks	Eastern	Atlantic
Oklahoma City Thunder	Western	Northwest
Orlando Magic	Eastern	Southeast
Philadelphia 76ers	Eastern	Atlantic
Phoenix Suns	Western	Pacific
Portland Trail Blazers	Western	Northwest

Edit Team   **View Members**

Delete Team   **Refresh**

Back

1. Select a Team and then click Edit Team to edit the Team details.
2. Select a Team and then click View Members to view coaches and players that belong to that Team.
3. Select a Team and then click Delete Team to delete the team from the database. This can only be done if there are no players and coaches associated with that Team. If there are, an error message will display and the Team will not be deleted.
4. Click Refresh to refresh the table after a Team has been edited.
5. Click Name on the table to sort Teams by Name.
6. Click Conference on the table to sort Teams by Conference.

7. Click Division on the table to sort Teams by Division.
8. Click Back to go back to the Team Menu.

Edit Team Window

1. The Team Name, Conference, and Division will be displayed in the input areas.
2. The Team Name is not editable because it is the unique field for each Team in the database.
3. The Conference and Division can be changed.
4. Click Save to save the changes made to the database.
5. Click Cancel to close this window and return to the View Teams window.

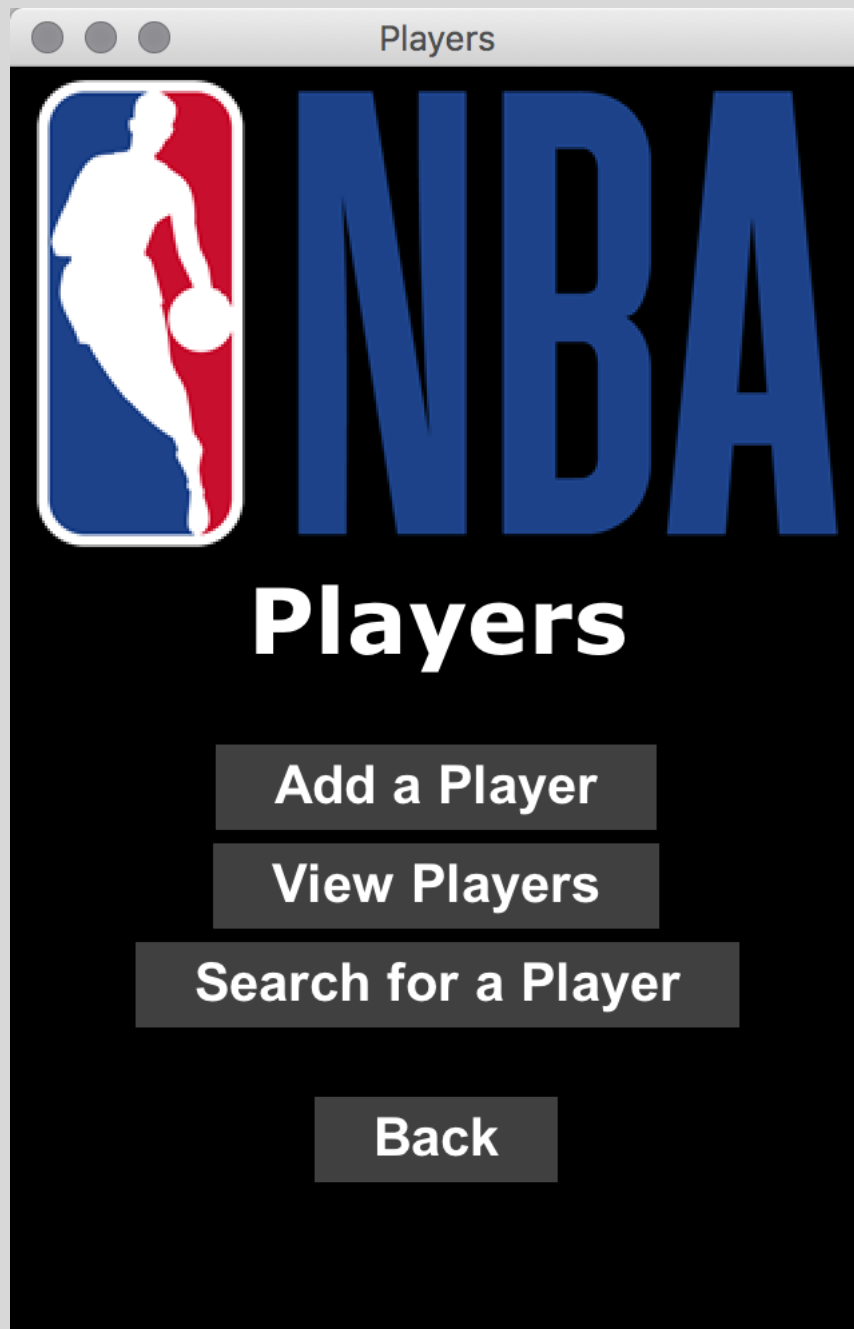| ID	Team	First name	Last name	Phone	Email	Type
1001	Atlanta Hawks	Lloyd	Pierce	203 298 37...	lloydpierce@...	Coach
1084	Atlanta Hawks	Dennis	Schroder	209 302 84...	dennisschro...	Player

1. Coaches and Players from the selected Team are displayed with limited data for each.
2. Select a Coach or Player and then click Edit to edit the details in a new window.
3. Select a Coach or Player and then click Delete to delete the member from the Team and database.
4. Click Refresh to update members after editing.
5. Click Back to close window and return to View Teams window.

Player Menu

1. Click Add a Player to close this menu and open a new window to add new Player details to the database.
2. Click View Players to close this menu and open a new window to view all Players in the database.
3. Click Search for a Player close this menu and open a new window to search for a Player in the database by last name.
4. Click Back to close this menu and return to the Main Menu.
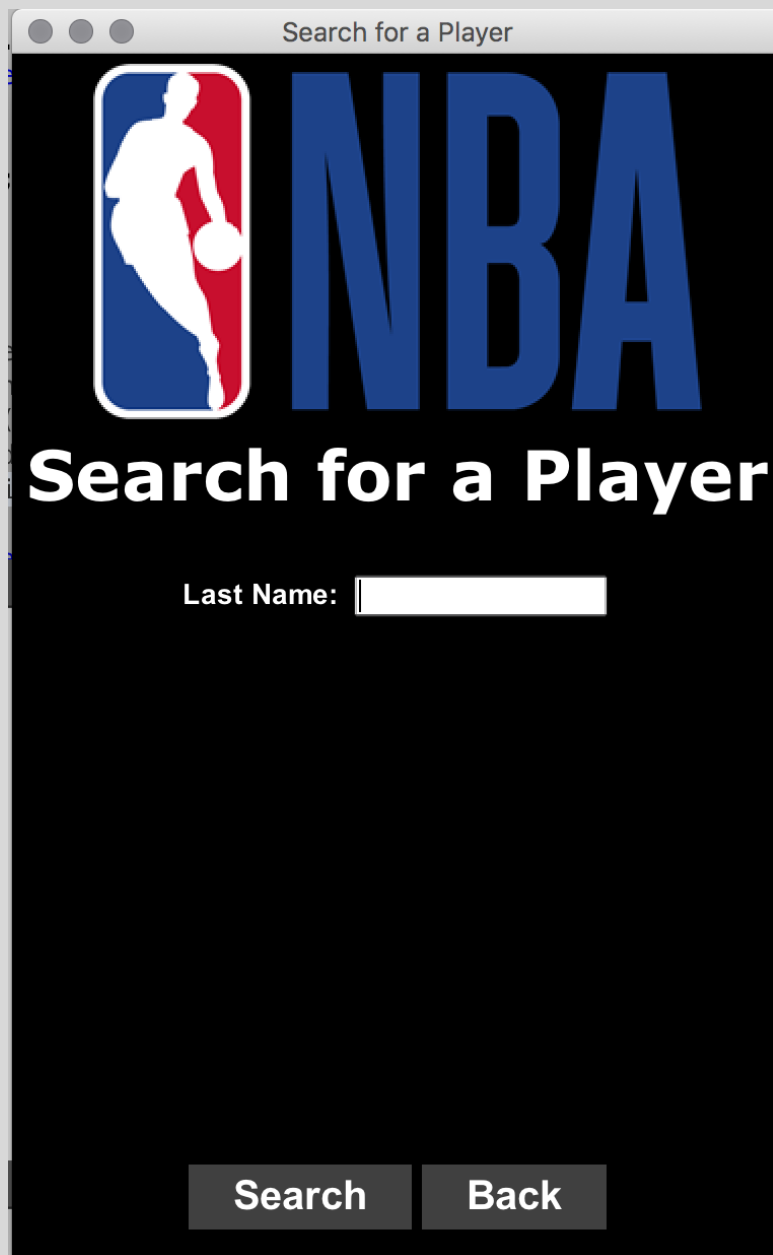
Add a Player Window

1. ID must be unique, must not contain spaces, and must be at least 4 characters.
2. The Teams are listed in a select menu and are taken from the database.
3. First and Last names must not contain numbers, must be more than 2 characters each, and cannot contain more than 3 spaces each.
4. The phone must be only numbers or spaces and must be between 10 and 15 characters.
5. The email cannot contain spaces, must be between 6 and 60 characters, and must contain both '@' and '.' to be valid.
6. The Player number must be a number and must be 1 or 2 digits.
7. The college must not contain numbers and must not have more than 4 spaces.
8. Rookie this Year asks whether the Player is a rookie in the current or upcoming season.
9. Year Started must be a valid 4 character year.
10. Position is a select menu with the 5 possible positions.
11. Country of origin is a select menu with over 40 possible countries to choose from.
12. PPG and RPG must be in the format '18.4'.
13. Highest Score must be between 0-100 and must be an integer.
14. Click Save to save the player information. If any input is invalid, a message will display.
15. Click Cancel to close this window and return to the Player menu.

View Players Window

ID	Team	First name	Last name	Phone	Email	Number	College	Rookie?	Start Year	Position	Country	PPG	RPG	High Score
1001	Clevelan...	LeBron	James	918 28...	lebronja...	23	none	false	2003	Small Fo...	USA	27.2	7.4	61
1002	Golden ...	Kevin	Durant	202 38...	kevindur...	35	Universit...	false	2007	Small Fo...	USA	25.1	8.3	54
1003	San Anto...	Kawhi	Leonard	298 29...	kleonard...	2	San Dieg...	false	2011	Small Fo...	USA	25.5	5.8	29
1004	Golden ...	Stephen	Curry	907 29...	stephcur...	30	Davidso...	false	2009	Point Gu...	USA	25.3	4.5	54
1005	Oklaho...	Russell	Westbrook	389 20...	russwest...	0	Universit...	false	2008	Point Gu...	USA	31.6	10.7	58
1006	Houston...	James	Harden	203 84...	jamesha...	13	Arizona ...	false	2009	Shooting...	USA	29.1	8.1	60
1007	Milwauk...	Giannis	Antetoko...	293 87...	gantetok...	34	none	false	2013	Small Fo...	Greece	22.9	8.8	44
1008	New Orl...	Anthony	Davis	203 88...	anthony...	23	Universit...	false	2012	Power F...	USA	28.0	11.8	59
1009	Minneso...	Jimmy	Butler	102 89...	jimmybu...	23	Marquet...	false	2011	Small Fo...	USA	23.9	6.2	53
1010	Minneso...	Karl-Ant...	Towns	405 38...	kat@gm...	32	Universit...	false	2015	Center	USA	25.1	12.3	56
1011	Golden ...	Draymond	Green	798 03...	draymon...	23	Michigan...	false	2012	Power F...	USA	10.2	7.9	37
1012	Houston...	Chris	Paul	809 38...	chrispau...	3	Wake Fo...	false	2005	Point Gu...	USA	18.1	5.0	38
1013	Washing...	John	Wall	508 39...	johnwall...	2	Universit...	false	2010	Point Gu...	USA	23.1	4.2	52
1014	Golden ...	Klay	Thompson	102 38...	klaytho...	11	Washingt...	false	2011	Shooting...	USA	22.3	3.7	60
1015	Oklaho...	Paul	George	928 38...	paulgeor...	13	Californi...	false	2010	Small Fo...	USA	23.7	6.6	48
1016	New Orl...	DeMarcus	Cousins	403 28...	demarcu...	0	Universit...	false	2010	Center	USA	27.8	10.6	56
1017	Boston C...	Gordon	Hayward	708 02...	gordonh...	20	Butler U...	false	2010	Small Fo...	USA	21.9	5.4	39
1018	Utah Jazz	Rudy	Gobert	708 02...	rudygob...	27	Marist C...	false	2013	Center	France	14.0	12.8	35
1019	Memphi...	Marc	Gasol	908 93...	marcgas...	33	none	false	2003	Center	Spain	19.5	6.3	33
1020	Toronto ...	Kyle	Lowry	901 28...	kylelowr...	7	Villanova...	false	2006	Point Gu...	USA	22.4	4.8	43
1021	Denver ...	Paul	Millsap	302 80...	pmillsap...	4	Louisian...	false	2006	Power F...	USA	18.1	7.7	46
1022	Detroit P...	Blake	Griffin	818 30...	blakegrif...	23	Universit...	false	2009	Power F...	USA	21.6	8.1	47
1023	Memphi...	Mike	Conley	203 49...	mikeconl...	11	Ohio Stat...	false	2007	Point Gu...	USA	20.5	3.5	38
1024	Portland...	Damian	Lillard	408 39...	damianli...	0	Weber St...	false	2012	Point Gu...	USA	27.0	4.9	59
1025	LA Clipp...	DeAndre	Jordan	818 30...	deandre...	6	Texas A...	false	2008	Center	USA	12.7	13.8	30
1036	New Yor...	Kristaps	Porzingis	917 30...	kristaps...	6	none	false	2015	Power F...	Latvia	18.1	7.2	40

Edit | **Delete**
Calculate Salary | **Refresh**
Back

1. Click any of the field names in the table to sort the Players by that field.
2. Select a Player and then click Edit to open a new window to edit Player details.
3. Select a Player and then click Delete to delete Player from the database.
4. Select a Player and then click Calculate Salary to display Player salary.
5. Click Refresh to refresh the table after editing a Player.
6. Click Back to go back to the Player Menu.

Search for a Player Window

1. Enter a search term in the text input box to search for a Player. The search term must be a Player last name with no numbers.
2. Click Search to search for the Player last name. If there are results, the Player information will be displayed below the text input box. If there are no results, a message will be displayed.
3. Click Back to close window and return to the Player menu.

Coach Menu

1. Click Add a Coach to close this menu and open a new window to add new Coach details to the database.
2. Click View Coaches to close this menu and open a new window to view all Coaches in the database.
3. Click Search for a Coach close this menu and open a new window to search for a Coach in the database by last name.
4. Click Back to close this menu and return to the Main Menu.

1. ID must be unique, must not contain spaces, and must be at least 4 characters.
2. The Teams are listed in a select menu and are taken from the database.
3. First and Last names must not contain numbers, must be more than 2 characters each, and cannot contain more than 3 spaces each.
4. The phone must be only numbers or spaces and must be between 10 and 15 characters.
5. The email cannot contain spaces, must be between 6 and 60 characters, and must contain both '@' and '.' to be valid.
6. Years Experience, Championships, and Playoffs must all be integers between 0-100.
7. Win/Loss Ratio must be in the format '0.548'.
8. Click Save to save the Coach information. If any input is invalid, a message will display.
9. Click Cancel to close this window and return to the Coach menu.

ID	Team	First name	Last name	Phone	Email	Years as He...	Champions...	Playoffs	W/L Ratio
1001	Atlanta Ha...	Lloyd	Pierce	203 298 ...	lloydpierce...	0	0	0	0.0
1002	Boston Cel...	Brad	Stevens	902 829 ...	bradsteve...	5	0	4	0.671
1003	Brooklyn N...	Kenny	Atkinson	380 289 ...	kennyatkin...	5	0	1	0.341
1004	Charlotte ...	James	Borrego	203 892 ...	jamesborr...	4	0	1	0.0
1005	Chicago Bulls	Fred	Hoiberg	389 298 ...	fredhoiber...	2	0	1	0.329
1006	Cleveland ...	Tyronn	Lue	489 028 ...	tlue@gmail...	5	1	5	0.61
1007	Dallas Mav...	Rick	Carlisle	279 208 ...	rickcarlisle...	15	1	12	0.293
1008	Denver Nu...	Michael	Malone	302 839 ...	mmalone@...	5	0	0	0.561
1009	Detroit Pist...	Dwayne	Casey	208 283 ...	dwaynecas...	9	0	5	0.72
1010	Golden Sta...	Steve	Kerr	918 371 ...	stevekerr...	4	3	4	0.707
1011	Houston R...	Mike	D'Antoni	283 028 ...	mikedanto...	14	0	8	0.793
1012	Indiana Pa...	Nate	McMillan	408 273 ...	natemcmill...	17	0	7	0.585
1013	LA Clippers	Doc	Rivers	818 384 ...	docrivers@...	18	1	16	0.512
1014	Los Angele...	Luke	Walton	310 839 ...	lukewalton...	4	0	2	0.427
1015	Memphis ...	J.B.	Bickerstaff	382 883 ...	jbbick@gri...	4	0	2	0.238
1016	Miami Heat	Erik	Spoelstra	203 887 ...	erikspoelst...	10	2	8	0.537
1017	Milwaukee...	Mike	Budenholzer	293 279 ...	mike@mb...	5	0	4	0.293
1018	Minnesota ...	Tom	Thibodeau	203 942 ...	tomt@timb...	7	0	6	0.573
1019	New Orlea...	Alvin	Gentry	302 830 ...	alvingentry...	13	0	3	0.585
1020	New York ...	David	Fizdale	302 918 ...	davidfizda...	5	0	2	0.368
1021	Oklahoma ...	Billy	Donovan	203 102 ...	billydonov...	3	0	3	0.585
1022	Orlando M...	Steve	Clifford	102 993 ...	stevecliffor...	5	0	2	0.439
1023	Philadelphi...	Brett	Brown	209 303 ...	bbrown@p...	5	0	1	0.634
1024	Phoenix Suns	Igor	Kokoskov	102 804 ...	igorkokosk...	4	0	0	0.5
1025	Portland T...	Terry	Stotts	308 028 ...	terrystots...	10	0	6	0.598
1026	Sacrament...	David	Joerger	108 208 ...	david@sac...	5	0	3	0.329
1027	San Antoni...	Gregg	Popovich	404 208 ...	gregg@sp...	21	5	21	0.573

Edit	Delete
Calculate Salary	Refresh
Back	

1. Click any of the field names in the table to sort the Coaches by that field.
2. Select a Coaches and then click Edit to open a new window to edit Coach details.
3. Select a Coach and then click Delete to delete Coach from the database.
4. Select a Coach and then click Calculate Salary to display Coach salary.
5. Click Refresh to refresh the table after editing a Coach.
6. Click Back to go back to the Coach Menu.

1. Enter a search term in the text input box to search for a Coach. The search term must be a Coach last name with no numbers.
2. Click Search to search for the Coach last name. If there are results, the Coach information will be displayed below the text input box. If there are no results, a message will be displayed.
3. Click Back to close window and return to the Coach menu.