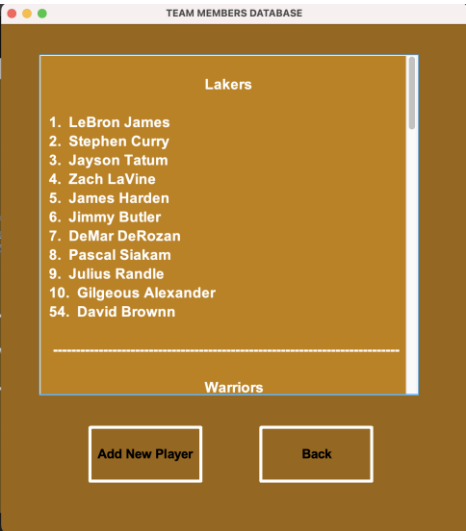


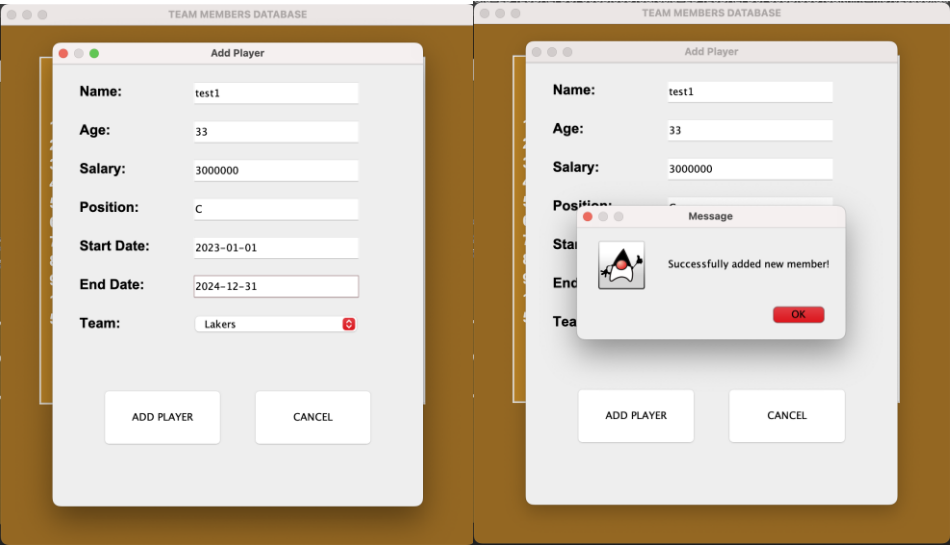
Insert Operation:

Before:



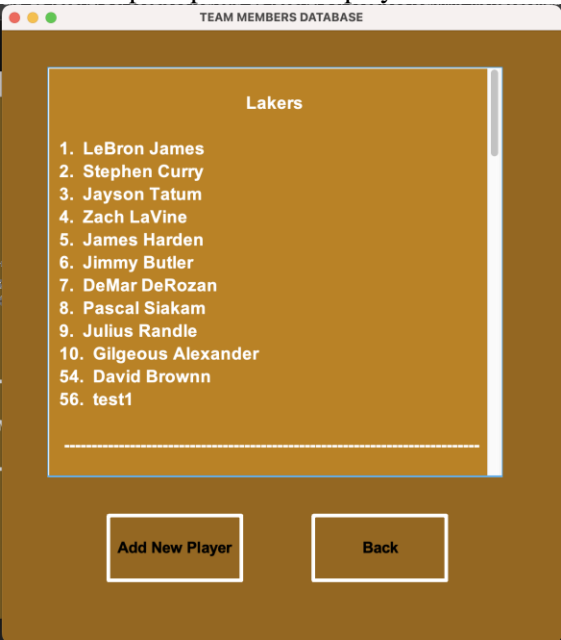
The user first clicks add new player.

During:



The user enters corresponding values of the new player and clicks add player, then the successful prompt shows the player is added to the database.

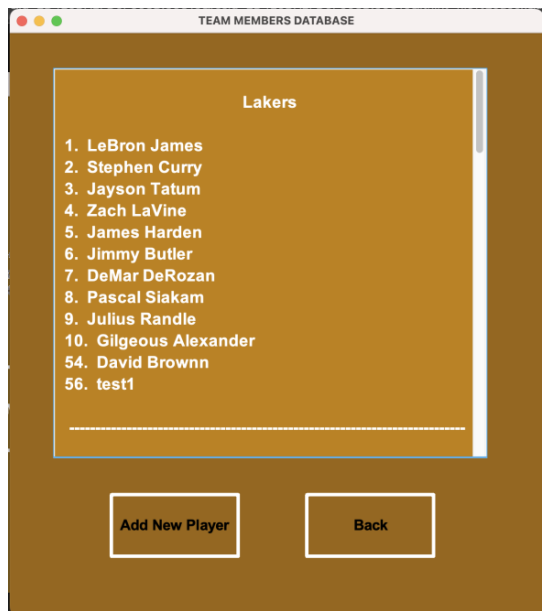
After:



We can see that test1 has been added to the Lakers roster.

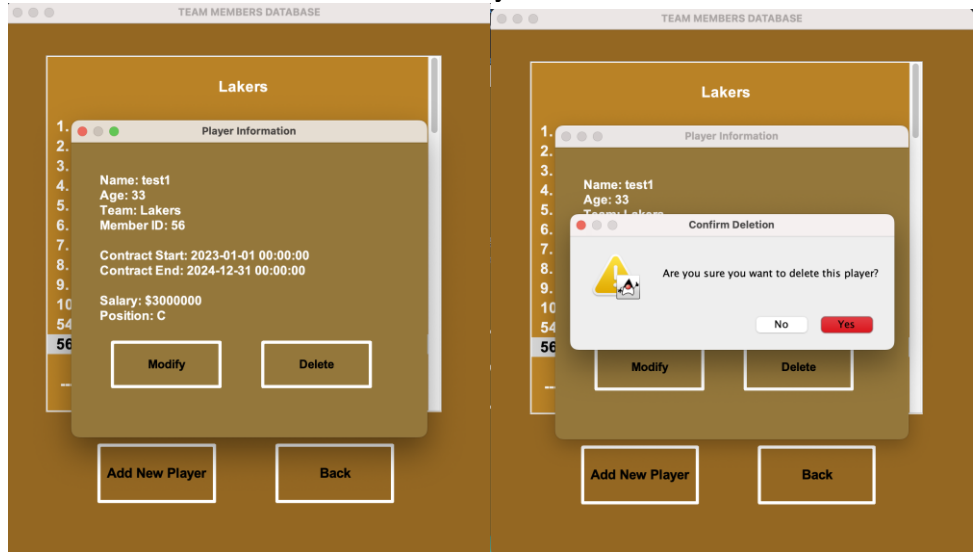
Delete Operation:

Before:



The user first clicks the team member they want to delete.

During:



Then the user clicks the delete button and is prompted with confirmation. If they click “Yes” the selected team member will be deleted from the database.

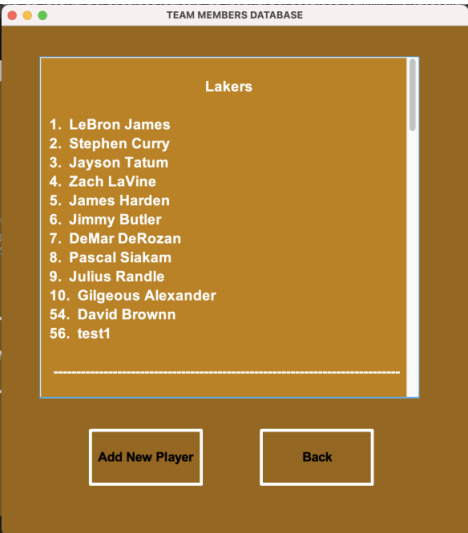
After:



We can see that test1 has been deleted from the Lakers roster.

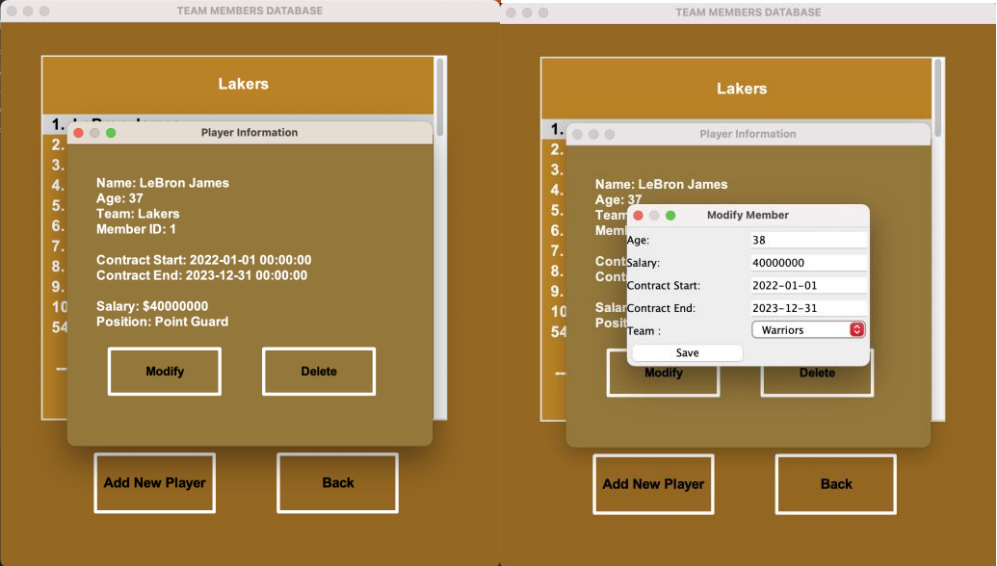
Update Operation:

Before:



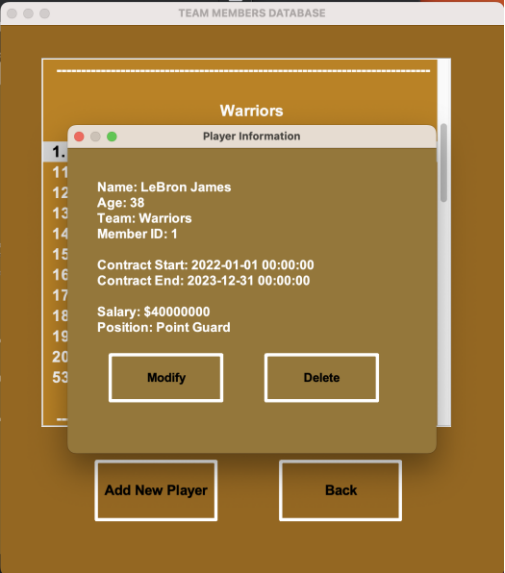
The user first clicks the team member they want to update.

During:



Then the user clicks the modify button and can modify attribute of that player, here we changed Lebron James's age to 37 and his team to the Warriors

After:



We can see that Lebron James's team and age have been updated to the given values.

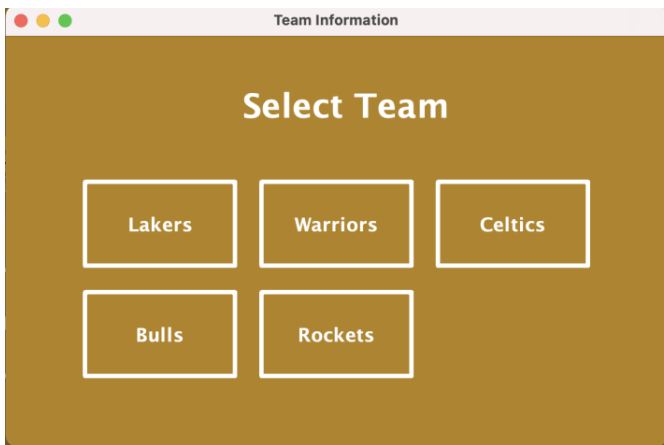
Selection Operation:

Before:



The user first clicks team information.

During:



Then the user clicks which team's information they would like to see.

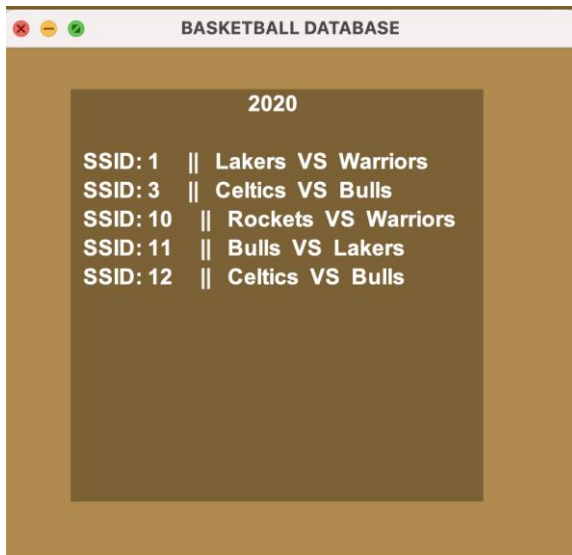
After:

Team Information		
Team Members	Team Name - Lakers	Games
- Stephen Curry	Team ID - 1	- Bulls VS Lakers
- Jayson Tatum	Arena - Staples Center	- Rockets VS Lakers
- Zach LaVine	Owner:	- Bulls VS Lakers
- James Harden	- Magic Johnson	- Celtics VS Lakers
- Jimmy Butler	- Age: 62	- Lakers VS Warriors
- DeMar DeRozan	- Net Worth: \$7000000	- Lakers VS Warriors
- Pascal Siakam	Sponsors:	- Lakers VS Celtics
- Julius Randle	- Nike	- Lakers VS Celtics
- Gilgeous Alexander	- \$5000000	- Lakers VS Rockets
- David Brownn	- Global Motors	
	- \$80066540	
	Total Salary: - \$282100000	

Here the user selects the Lakers and the team's information is displayed.

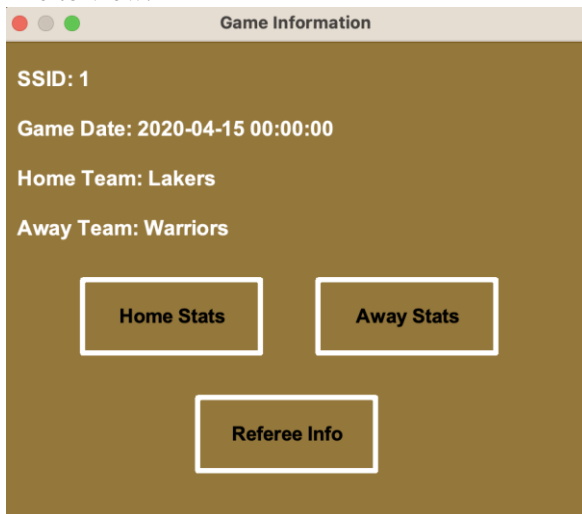
Projection Operation:

Before:



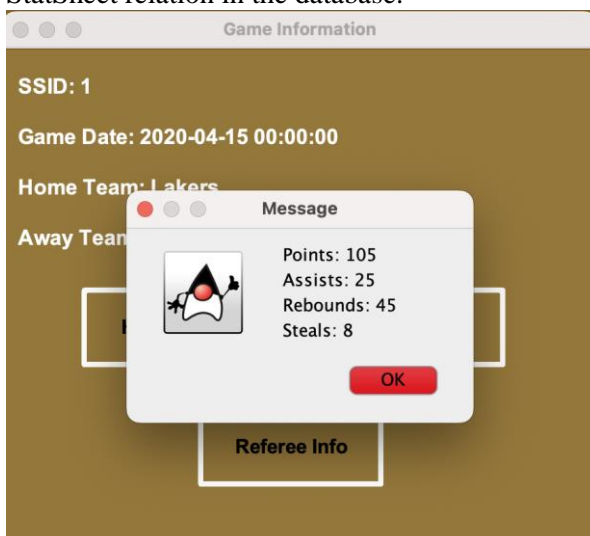
The user first navigates to game information and selects the team's game stats they would like to view.

During:



Then the user clicks the Home Stats or Away Stats to get those attributes from the StatSheet relation in the database.

After:



Here the user clicked the Home Stats button and only home stats are returned.

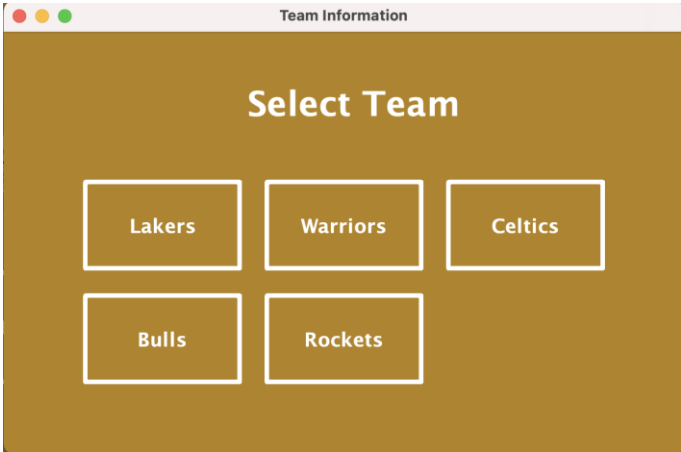
Join Operation:

Before:



The user first clicks the team information.

During:



Then the user clicks the teams information they would like to see.

After:

Team Information		
Team Members	Team Name - Lakers	Games
- Stephen Curry	Team ID - 1	- Bulls VS Lakers
- Jayson Tatum	Arena - Staples Center	- Rockets VS Lakers
- Zach LaVine	Owner: - Magic Johnson	- Bulls VS Lakers
- James Harden	- Age: 62	- Celtics VS Lakers
- Jimmy Butler	- Net Worth: \$7000000	- Lakers VS Warriors
- DeMar DeRozan	Sponsors: - Nike	- Lakers VS Warriors
- Pascal Siakam	- \$5000000	- Lakers VS Celtics
- Julius Randle	- Global Motors	- Lakers VS Celtics
- Gilgeous Alexander	- \$80066540	- Lakers VS Rockets
- David Brownn	Total Salary: - \$282100000	

Here we join the sponsors and team table to display the a given team’s sponsors name and contributions.

Aggregation with GROUPBY Operation:

Before:

Team Information		
Team Members	Team Name	Games
<ul style="list-style-type: none">- Stephen Curry- Jayson Tatum- Zach LaVine- James Harden- Jimmy Butler- DeMar DeRozan- Pascal Siakam- Julius Randle- Gilgeous Alexander- David Brownn	<p>- Lakers</p> <p>Team ID - 1</p> <p>Arena - Staples Center</p> <p>Owner: - Magic Johnson - Age: 62 - Net Worth: \$7000000</p> <p>Sponsors: - Nike - \$5000000</p> <p>- Global Motors - \$80066540</p> <p>Total Salary: - \$282100000</p>	<ul style="list-style-type: none">- Bulls VS Lakers- Rockets VS Lakers- Bulls VS Lakers- Celtics VS Lakers- Lakers VS Warriors- Lakers VS Warriors- Lakers VS Celtics- Lakers VS Celtics- Lakers VS Rockets

The user first navigates to the Team information tab, here we note the total salary which is salaries for all players summed up.

During:

TEAM MEMBERS DATABASE

Add Player

Name:

Age:

Salary:

Position:

Start Date:

End Date:

Team:

ADD PLAYER CANCEL

Then the user can add a new player, here we add a player “test1” with salary \$12345.

After:

Team Information		
Team Members	Team Name	Games
<ul style="list-style-type: none">- Stephen Curry- Jayson Tatum- Zach LaVine- James Harden- Jimmy Butler- DeMar DeRozan- Pascal Siakam- Julius Randle- Gilgeous Alexander- David Brownn- test1	<p>- Lakers</p> <p>Team ID - 1</p> <p>Arena - Staples Center</p> <p>Owner: - Magic Johnson - Age: 62 - Net Worth: \$7000000</p> <p>Sponsors: - Nike - \$5000000</p> <p>- Global Motors - \$80066540</p> <p>Total Salary: - \$282112345</p>	<ul style="list-style-type: none">- Bulls VS Lakers- Rockets VS Lakers- Bulls VS Lakers- Celtics VS Lakers- Lakers VS Warriors- Lakers VS Warriors- Lakers VS Celtics- Lakers VS Celtics- Lakers VS Rockets

Here we can see the salary of the player we just added is added to the total salary.