<div align="center">**Sprint-3 Artifact**</div>

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Features (user stories) to Implement in Next Sprint

- **Feature 1:** As a user, I want to update/insert/delete the players who played during the 2004 to the 2020 seasons in the NBA.
- **Feature 2**: As a user, I want to update/insert/delete all the teams in the league.
- **Feature 3**: As a user, I want to update/insert/delete the rankings of a team in a given season.

Test Cases

- **Feature 1 Test Cases:** As a user, I want to update/insert/delete the *player name, teamID, playerID, and season number* of the players who played during the 2004 to the 2020 seasons in the NBA.

  Test Case 1: As a user, I want to be able to insert a new player who played with *player name, teamID, playerID, and season number* during the 2004 to the 2020 seasons to the display on the site.
  - *Correct Output*: The user specifies a *player name, teamID, playerID, and season number* to be inserted and the player count should increment accordingly with the player inserted to the dataset.

  Test Case 2: As a user, I want to be able to delete certain players who played during the 2004 to the 2020 seasons from the display on the site.
  - *Correct Output*: The user specifies a player to be deleted and the player count should decrement accordingly with the player removed from the dataset.

  Test Case 3: As a user, I want to be able to update the info of certain players who played during the 2004 to the 2020 seasons from the display on the site with *player name, teamID, playerID, and season number*.
  - *Correct Output*: The user specifies a player to be updated and inputs the new attribute, which replaces the old player's attribute. The player count should remain the same.

  Test Case 4: As a user, I input an invalid name update/delete
  - *Correct Output:* The user is prompted saying that the name is invalid and to retype another name.

- **Feature 2 Test Cases**: As a user, I want to update/insert/delete the *nickname, abbreviation, year founded, and city* of the teams who played during the 2004 to the 2020 seasons in the NBA.
    - **Test Case 1:** As a user, I want to be able to insert the *nickname, abbreviation, year founded, and city* of the teams to the teams dataset.
        - *Correct Output*: The user specifies a team to be inserted and the team count should increment accordingly with the team inserted to the dataset.
    - **Test Case 2:** As a user, I want to be able to delete certain nba teams who played during the 2004 to the 2020 seasons from the display on the site.
        - *Correct Output*: The user specifies a team to be deleted and the nba team count should decrement accordingly with the team removed from the dataset.
    - **Test Case 3:** As a user, I want to be able to update the *nickname, abbreviation, year founded, and city* of certain NBA teams who played during the 2004 to the 2020 seasons from the display on the site.
        - *Correct Output*: The user specifies a team to be updated and inputs the new attribute, which replaces the old team's attribute. The NBA team count should remain the same.
    - **Test Case 4:** As a user, I input an invalid team to update//delete
        - *Correct Output:* The user is prompted saying that the team is invalid and to retype another name.

- **Feature 3 Test Cases**: As a user, I want to update/insert/delete the *wins, loses, home record, and away record of the rankings* of a team in a given season.
    - **Test Case 1**: As a user, I want to be able to insert a new ranking of a team with *wins, loses, home record, and an away record* during the 2004 to the 2020 seasons to the display on the site.
        - *Correct Output:* The user specifies the *wins, loses, home record, and away record* to be inserted and the ranking of a team count should increment accordingly with the new team ranking inserted to the dataset.
    - **Test Case 2:** As a user, I want to be able to delete certain rankings of teams who played during the 2004 to the 2020 seasons from the display on the site.
        - *Correct Output*: The user specifies a ranking to be deleted and the nba ranking count should decrement accordingly with the ranking removed from the dataset.
    - **Test Case 3:** As a user, I want to be able to update the *wins, loses, home records, and away records* during the 2004 to the 2020 seasons to the display on the site.

- *Correct Output*: The user specifies a team to be updated and inputs the new attributes, which replaces the old team's attribute. The NBA team count should remain the same.

Test Case 4: As a user, I input an invalid wins and losses combination so that the total does not add up to 82.
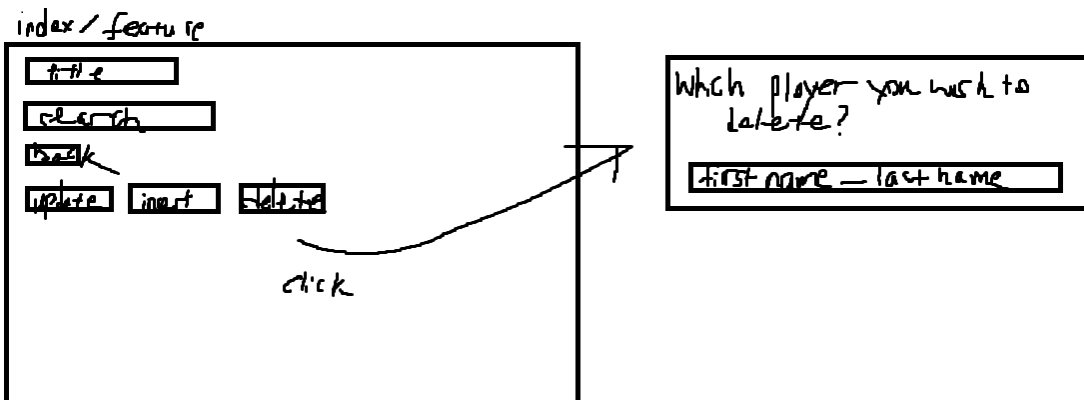
Correct Output: The user is prompted saying that the ranking is invalid and to retype another ranking.

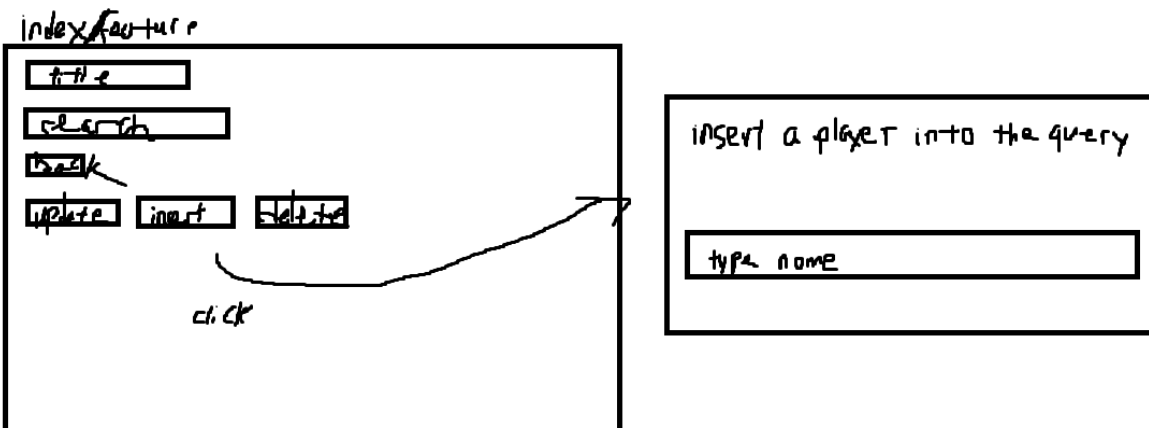**Test Case 5:** As a user, I input an invalid team to update/delete its ranking from the dataset.

Correct Output: The user is prompted saying that the team is invalid and to retype another team.
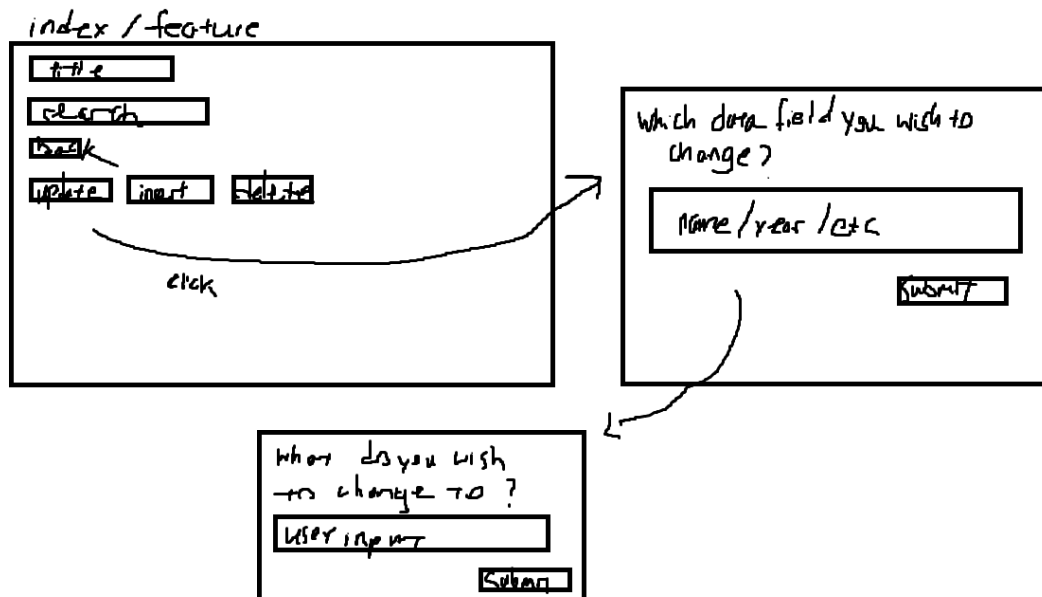
GUI:

<u>Delete</u>:

index / feature

title

search

back

update   inert   delete

click

Which player you wish to delete?

first name — last name

<u>Insert</u>:

index feature

title

search

back

update   inert   delete

click

insert a player into the query

type name

Update:

index / feature

Taskboard

Done list of last sprint
- Integrated the NBA data into web application
    - [finished by every team member and verified by the group]
- Implemented an html site to display the data
    - [finished by every team member and verified by the group]
- Implemented a search bar that allows the user to query the different fields of interest
    - [finished by every team member and verified by the group]
- Set up a backend program to convert CSV to JSON.
    - [finished by every team member and verified by the group]
- Created backend programs to search for certain features.
    - [finished by every team member and verified by the group]
- Created a routing feature so that different parts of the website are handled correctly
    - [finished by every team member and verified by the group]

TODO List for next sprint

- Handle error messages
    - Acceptance Criteria: The user is prompted to another window when inputting invalid values.
- Implement changes to the GUI to handle update/insert/delete functionality
    - Acceptance Criteria: The GUI contains buttons for their respective functions

- Improve visualization for GUI and output of searches
  - Acceptance Criteria: The GUI is in table format
- Implement update for players record
  - Acceptance Criteria: The user is able to change existing data with new information.
- Implement insert for players record
  - Acceptance Criteria: The user is able to insert new data for the records.
- Implement delete for players record
  - Acceptance Criteria: The user is able to delete data from the records.
- Implement update for teams record
  - Acceptance Criteria: The user is able to change existing data with new information.
- Implement insert for teams record
  - Acceptance Criteria: The user is able to insert new data for the records.
- Implement delete for teams record
  - Acceptance Criteria: The user is able to delete data from the records.
- Implement update for wins/losses record
  - Acceptance Criteria: The user is able to change existing data with new information.
- Implement insert for wins/losses record
  - Acceptance Criteria: The user is able to insert new data for the records.
- Implement delete for wins/losses record
  - Acceptance Criteria: The user is able to delete data from the records.