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ITP 303 Final Project Summary

INSTRUCTIONS: Type out your answer directly below each question. If a question does not apply to your project, type in N/A. When finished, save this file as a PDF and upload it to the itpwebdev server via FileZilla. Then, add a link to this PDF in your student_page.html. Label it "Final Project Summary."

BASICS

Your name? Lung-Young (Eric) Yu

What is the topic of your final project? On my website, DreamTeam, users can view current NBA players and add them to form their own team of players. Users can also add their own notes of their players and view the logos of all NBA teams. Users can see the current standings of NBA teams (data from API so all data is up-to-date) and view other NBA game statistics like overall win/loss ratios, current win streak, win percentage, conference wins / losses (wins/losses against teams in the same conference), home game win/loss ratios (games won/lost at home venue), away game win/loss ratios (games won/lost at away venues), and last ten wins/losses (games won/lost in last ten games). DreamTeam is a website for enjoying the beautiful game of basketball through the NBA.

Who is the intended audience? This website is intended for both people who are huge fans of the NBA or those wanting to gain more interest in the NBA. Fans of all levels can enjoy having a website that can help build their dream NBA team from current NBA players as well as see statistical data about the current NBA season, all in one application.

Provide a brief summary of the functionalities of your project.
On my website, DreamTeam, users can view current NBA players and add them to form their own team of players. Users can also add their own notes of their players and view the logos of all NBA teams. Users can see the current standings of NBA teams (data from API so all data is up-to-date) and view other NBA game statistics like overall win/loss ratios, current win streak, win percentage, conference wins / losses (wins/losses against teams in the same conference), home game win/loss ratios (games won/lost at home venue), away game win/loss ratios (games won/lost at away venues), and last ten wins/losses (games won/lost in last ten games).

FRONT-END

What is the total page count?

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9 total pages: **home.php** (login screen), **main.php** (page for browsing and adding players), **add_confirmation.php** (confirmation page for adding player from main.php), **team.php** (page for viewing current team, removing player from team, and updating player notes), **delete.php** (confirmation page for removing player from team), **update_confirmation.php** (confirmation page for updating player notes), **nba.php** (page for viewing NBA franchise logos), **standings.php** (page for viewing current NBA standings and statistics), **logout.php** (confirmation page for logging out)

List the names of any external stylesheet used in this project below.

In css folder, **home.css** (styles for home login page) and **styles.css** (styles for all other pages).

List any CSS libraries/frameworks used in this project (e.g. Bootstrap) below.

Bootstrap, Google Fonts

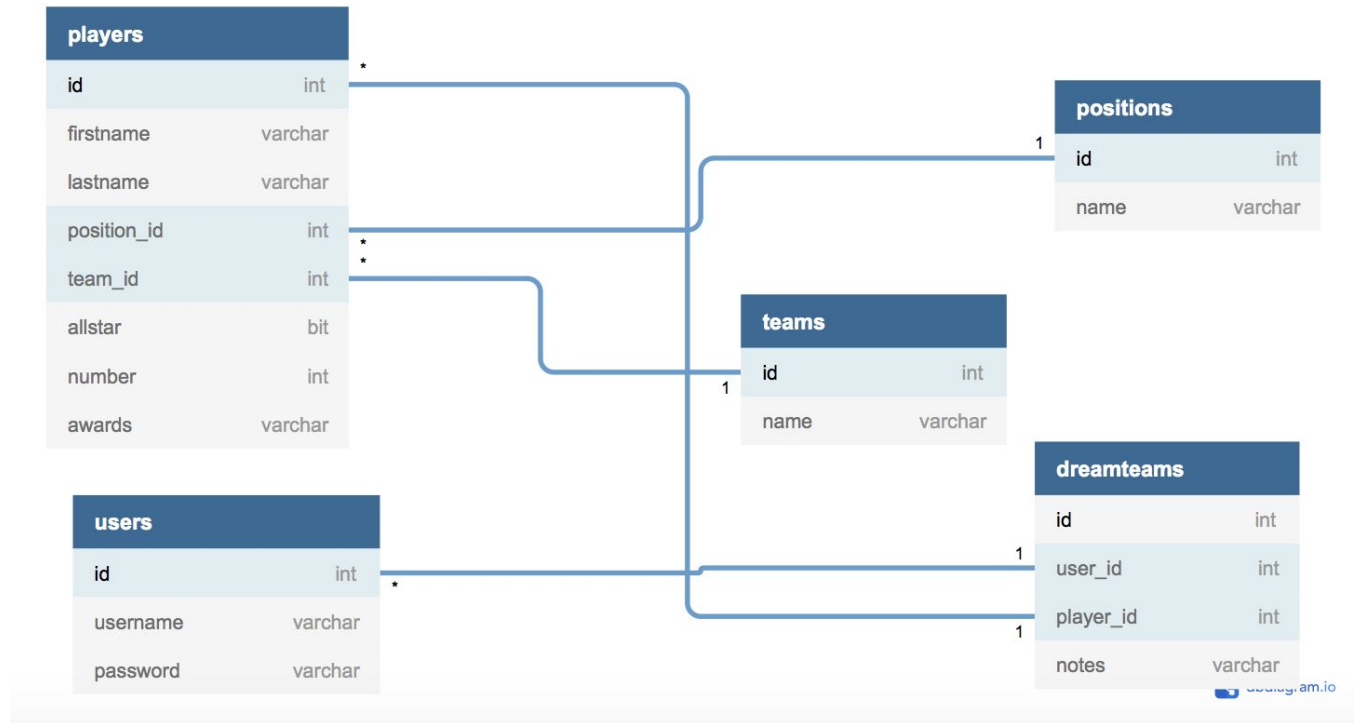**List any JavaScript libraries/frameworks used in this project below.**

N/A

How does your project meet the Interactivity requirement?

In nba.php (page with all the NBA team logos), if a user hovers their mouse over each NBA logo, it shrinks to indicate that you are hovering your mouse over that particular team. When the user hovers their mouse off the NBA logo, the image returns to its original size. This provides some visual feedback for users as they browse through the page.

BACK-END

Attach a screenshot of the final database diagram (just the diagram, do not include any records) below.

Where in your project do you insert a record to the database (the 'C' in CRUD)?

Adding player to a user's "dreamteam" team in main.php by selecting player in dropdown and clicking "Sign."

Where in your project do you search and display record(s) from the database (the 'R' in CRUD)?

Viewing all available players and their descriptions in main.php. Viewing all available players to add in dropdown in main.php. Viewing all current "dreamteam" players to update with notes in dropdown in team.php

Where in your project do you update and existing record(s) the database (the 'U' in CRUD)?

Updating notes for specific players in "dreamteam" team at bottom of team.php

Where in your project do you delete existing record(s) from the database (the 'D' in CRUD)?

Removing player from "dreamteam" team in team.php by clicking "Release" button.

MISC

What two "extra" requirements did you implement and where can they be found?

1.) Sessions/Cookies used when user registers/logins to DreamTeam. Cookies keep track of player username

information. Sessions keep track of which user is currently logged in when browsing through other pages (user_id value) in order to determine which team to add players to, which team to display (delete/release player and update notes for player), and name of user.

2.) NBA API. One API (LeagueStandings Request) is used to get the current NBA standings of teams to display in standings.php. This HTTP GET request returns values like current standings of NBA teams (data from API so all data is up-to-date) and view other NBA game statistics like overall win/loss ratios, current win streak, win percentage, conference wins / losses (wins/losses against teams in the same conference), home game win/loss ratios (games won/lost at home venue), away game win/loss ratios (games won/lost at away venues), and last ten wins/losses (games won/lost in last ten games).

I called another API (Teams Request) to determine the name of the NBA franchise team based on the teamId value retrieved from the LeagueStandings Request. This HTTP GET request returns the details of NBA teams like team id value and team name.

For both APIs, I decoded the returned JSON data and converted them into JSON objects with cURL.

If you used any APIs or JS plugins/frameworks as one of the extra requirements, list the name and a link to their documentation.
NBA API: http://nbasense.com/nba-api/
LeagueStandings Request:
http://nbasense.com/nba-api/Stats/Stats/Standings/LeagueStandings#request-request-info
Teams Request: http://nbasense.com/nba-api/Stats/Stats/Team/TeamInfo#request-request-info

If your project requires any admin credentials (i.e. only admin users can access a certain page), list the credentials below.
Registered users can access everything like viewing players and all functionality of teams like adding players, removing players, updating notes, and viewing their current team.
Non-registered users can access via "guest" and can do everything except functionality of teams like adding players, removing players, updating notes, and viewing their current team.

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Provide any other information that you think the grader/instructor should know when grading your final project below.

All "dreamteam" team data is stored for each user. Every user can form their own unique team. I implemented notes for players only specific to the player on the user's dreamteam. When a player is removed, the notes are deleted. This means if the same player is added again, the notes are deleted. I felt this was right because users should only be able to add notes to players on their team. Also, users can add the same player multiple times to their team. This is a fantasy team, so users can build a whole team of their favorite player if they want to. All current standings team data is up-to-date at the end of each day of the current 2019 season. It includes the most recent information.