Project: Recipe Search Engine

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Functions:

- saveRecipe(number userID, string recipeName) (Frontend)
    - External Input
    - Complexity - Simple (3)

Function/Output: Sends userID and recipeName data to the ExpressJS backend API using .fetch() and POST method.

Parameters:

- The userID should be the id of the current user
- recipeName should come from the recipe that was indicated to be favorited on the frontend.

Output: Returns nothing, should send the data to the backend

This is the saveRecipe function on the frontend side of the application. It should send the userID along with the recipeName to the backend. This is an External Input since this involves sending data across the application boundary (to the backend), but doesn't

change anything or return anything.

- saveRecipe(number userID, string recipeName) (Backend)
    - Internal Logical File
    - Complexity - Average (10)

Function/Output: Sends userID and recipeName data to the Favorites database.

Parameters:

- The userID should be the id of the current user.
- recipeName should come from the recipe that was indicated to be favorited on the frontend.

Output: Returns nothing, should save recipe to SQL database

This is the saveRecipe function on the backend side of the application. It should take the userID along with the recipeName and store it in the database on the backend. This is an Internal Logical File since this involves storing related data maintained within the application.

- fetchSaveRecipe(number userID) (Backend)
    - External Outputs
    - Complexity - Average (5)

Function/Output: Requests userID from oracle database, getting the result.

Parameters: Takes in the current userID as a parameter.

Output: Returns a JSON file containing all the favorite recipes from that userID, ideally by sending a SQL query to the backend

This is the fetchSaveRecipe function on the backend side of the application. It should take the userID and return a JSON file containing all the favorite recipes from that userID from the database. This is an external output as the function retrieves the data from the database to be used outside of the backend.

- fetchSaveRecipe(number userID) (Frontend)
    - External Outputs
    - Complexity - Average (5)

Function/Output: Requests userID from oracle database/backend and returns HTML to frontend.

Parameters: Takes in the current userID as a parameter.

Output: Returns HTML to frontend showing the favorites of the current user in some formatted way.

This is the fetchSaveRecipe function on the frontend side of the application. It should take the userID and use the JSON file containing all the favorite recipes from that userID from the database as mentioned in the previous function and render HTML to the frontend. This is an external output as the function retrieves the JSON data from the backend and formats the data so that it can be displayed on the frontend.

Final Score: (1 * 3) + (1 * 10) + (2 * 5) = 23