

# **Delight**

## **CS 157A – Team 18**

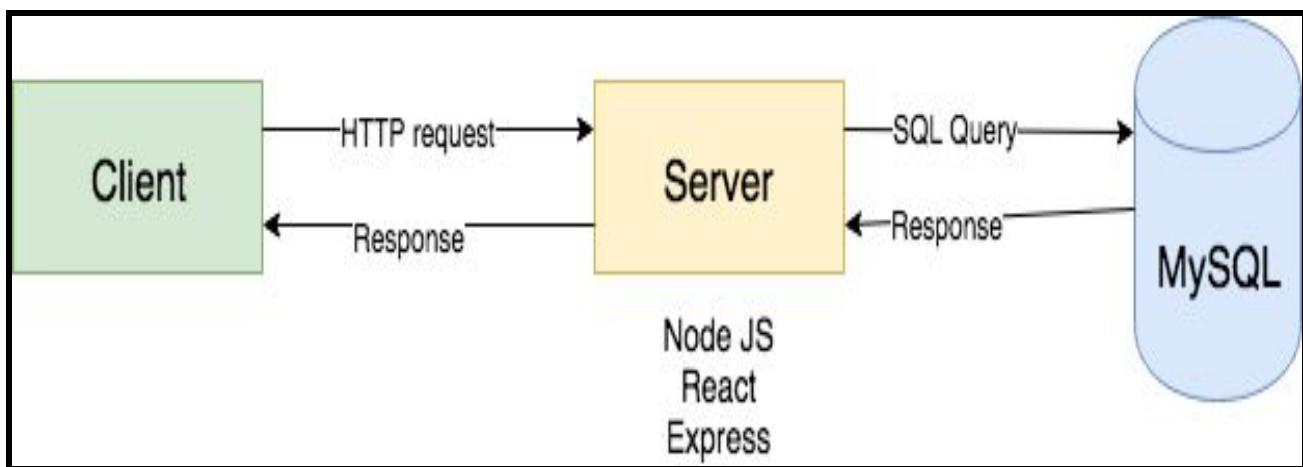
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## Project Overview

Our team will be creating a website to help people find recipes for maintaining a healthy diet. Researchers have found that Americans eat out very often as opposed to cooking food at home. Hence, obesity is a problem in America. According to Vox, foods at restaurants have 20 to 40 percent more calories than home-cooked food. Our team wants to introduce a platform where people can choose their diets and be provided with recipes that suit their diets. With our platform, people will be able to learn how to eat right. Our stakeholders are people who are looking to learn how to maintain a healthy diet. This platform is important because it provides resources to guide people to living a healthy lifestyle.

## Structure Diagram (3-tier Architecture)



## Functional Requirements

1. The user should be able to create and login to an account.
2. Food recipes will be catered to the user based on his/her preferences.
3. The user should be able to filter food recipes by:

- a. Popularity
  - b. Cooking difficulty
  - c. Spiciness
  - d. Diet (e.g. Weight Loss, Muscle Building, Vegan, Ketogenic, etc)
  - e. Type of meal (e.g. breakfast, lunch, dinner, snack, dessert, drink)
  - f. Type of cuisine (e.g. American, Asian, Mexican, etc)
  - g. Amount of time to cook meal
4. The user should be able to use a search bar to easily navigate recipes.
  5. Recipes should include an instructional video, a picture of the meal, and a step-by-step guide on how to make the meal.
  6. The user should be able to rate a recipe by liking/disliking, and have an option to write a review.

## **Nonfunctional Requirements**

1. The graphical user interface shall be Bootstrap-based and built using HTML, CSS, and JavaScript.
2. The website shall use React for the front end and Express for the backend.
3. Sketch shall be used for prototyping.
4. For security, two-factor authentication shall be enabled. Additionally, user passwords shall be encrypted with 256-bit AES.
5. For access control, only the creators of the website shall have the ability to manage the database and edit the site. Users shall only have the ability to navigate the website.

## **Bibliography**

Barclay, Eliza, et al. "It's Easy to Become Obese in America. These 7 Charts Explain Why." Vox, Vox, 9 Aug. 2018,  
[www.vox.com/2016/8/31/12368246/obesity-america-2018-charts](http://www.vox.com/2016/8/31/12368246/obesity-america-2018-charts).