Project description:

Our project will be a restaurant website where users can order food to go via delivery or pickup. Our restaurant specializes in customizable rice bowls. Users can either select a pre-customized bowl from a menu that displays the ingredients involved, or create their own from an additional menu option. The process when creating a bowl consists of selecting a base grain (rice, quinoa, noodles, other carbohydrates), a source of protein (chicken, beef, raw fish, tofu, meat analogue, etc), toppings (vegetables, cheese, etc), and sauces. There will also be an option to add extra of a certain ingredient at additional cost. Users will add all their orders to a cart, having the option to edit or remove them and then once they checkout, they can either choose to get the order delivered or pick it up from one of our various locations. Users can sign up for accounts to post reviews, or use the site without a login.

Features:

- Users can order food without an account.
- Users don't need to put in fake credit card information to checkout. We just move on in the pipeline assuming the user has paid. We won't be using technology to verify card information and you probably don't want to enter card information on this website anyways.
- Users can filter out food options such as vegan, raw, gluten free, etc.
- Users will use a form to create custom bowls
- Users can edit their cart by changing out their pre-customized bowl to a different pre-customized bowl or edit their custom bowl
- Users can leave reviews on the site.
- The checkout page will allow for delivery or pickup
- For delivery an estimate of time for how long the delivery will take will be shown to the user before ordering
- For pickup, there will be a notification on the page that says when the food is ready
- There is a second client you use to simulate employees at a restaurant. This 2nd client shows the list of orders and if the order hasn't been served yet, the user can click the button corresponding to the order to let the 1st client know that the bowl(s) have been made. This will affect the pickup/delivery times.

Group members:

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Class Technologies:

- React

React will be the frontend framework used to create our web app. We will create components for elements that we can include on our pages.

- Redis
  Redis will be used to cache data (the food options) and html to improve user experience.
- Firebase Authentication
  Firebase authentication will be used to authorize users for the site. There is a login feature but there isn't much difference between using the website with account vs without account.
- Redux
  Redux will be used to keep track of the cart state throughout each component.

Independent Technologies:

- Docker
  Docker will be used to deploy the web app. Docker is an open platform for developing, shipping, and running applications. Docker enables us to separate our applications from our infrastructure so we can deliver software quickly.
- ElasticSearch
  ElasticSearch will be used as our database. We will also use ElasticSearch to help users filter out food options such as vegan, gluten free, raw, and etc.

Github repository:
https://github.com/Nickaha/CS554-Project