

APP: Berkeley Master Chef

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Overview

Our app is essentially a cooking recipe application. Upon opening the responsive and aesthetically pleasing web application we carefully created using React.js, the user sees a display of various images of food. Each image has the option for you to open up in order to see the ingredients to make the desired food. In the top left corner, there is a placeholder for settings. On the top right corner, the user can add new recipes for food they want to jot down and the web app will store this information to the database. They will need to include the ingredients, the directions, the picture of the recipe, and the name of the food. In addition, our app can also optimize to handle those who want to access it through a mobile device. We also developed a search option, but not fully implemented. Furthermore, the specs mentions the presence of a back button, the icon to go back to the previous page. In our project, do not have to add the button for our website because we already dealt with the paging, so we can simply use the back button of the current browser to go back to the previous page. Lastly, our website can automatically list/render newly added recipe once you submit the needed information.

We also have a VUI feature where it begins by asking what you want to make. This interface will grab the recipes added from the web app from the database and it will load them as its own recipes. You can state recipe name to get ingredients and directions, access a menu of options, or quit the app. If you reply with the recipe name, you can separately ask for the ingredients to make the food and the directions to make them.

Technical Details

Since we are using React.js to create our website, we have provided you a zip file (webCode.zip) that contains the directory to launch the site. To start it, “cd” into the master-chef directory and run “npm install” to set it up and then run “npm start” to start the server. The terminal should then provide a localhost address for you to copy paste into the browser to view the website. Please email us if you have problems with this directory, so we can provide you a git clone link to the repository or another fresh directory.

Our Alexa code uses dynasty to access DynamoDB so we had to create two lambda functions for the whole setup to work since we need to zip up the code to have dynasty as a dependency. The first one would be for the database code in order for the web app to connect to the database and the second one would be the Alexa Skills Kit where we upload the zip file with all of our Alexa code. We are using Node.js for both lambda functions. Let us know if the zip file for the Alexa code does not work, so we can email you a new one. The database code should be in action.TYP and the Alexa code should be in alexa-recipeReader.zip

In regard to the ingredients and the directions of the recipe, our Alexa code parses the Ingredients and Directions using commas so please input those in the following format for N ingredients or directions:

<vaule1>, <value2>, <value3>, ... , <valueN>

If you are going to test our code by creating your own database, please contact Jaesung Lee if you are having trouble linking the gateway url to the web code. Additionally, our Alexa code requires that the name of the database to be “Recipes”. When you configure the database, it will only have the “RecipeName” to be the primary key and **will not** provide a sort key - the code that we have has a schema to match this setup. The column names are as follows: ‘RecipeName’, ‘Directions’, ‘ImageURL’, ‘Ingredients’

Sample Scenarios (Text Only)

1. Sample Dialog One:

User: "Start Master Chef."

Master Chef: "Welcome to Master Chef! Say Begin to start."

User: "Begin."

Master Chef: "Recipe assistant, what recipe would you like to make? Say info to get a list of possible commands."

User: "What can I say?"

Master Chef: "Here is a list of things you can say:

1. Oatmeal.
2. Bacon and Eggs.
3. Steak.
4. Fried rice.
5. Cereal.
6. Pasta.

To choose one of these options, either say I would like to make x where x is one of the supported recipes. or say Find x where x is one of the supported recipes. If you need to go back, say main menu.'

User: "Find Cereal"

Master Chef: "Recipe loaded successfully. Say ingredients to start."

User: "Ingredients"

Master Chef: "Cereal"

User: "Next Ingredient"

Master Chef: "Milk. Now that you have all the ingredients, let us get cooking. Please say read recipe or start to begin. Say main menu to go back to the main dialogue."

User: "Start Directions"

Master Chef: "Get a bowl."

User: "Ok what next?"

Master Chef: "Add cereal and milk to bowl. That was the final step. Say start again to start again. Say main menu to go back to the main dialogue."

User: "Main Menu."

Master Chef: "Recipe assistant, what recipe would you like to make? Say info to get a list of possible commands."

User: "I don't have the necessary ingredients."

Master Chef: "Thank you for using Master Chef. Now quitting the app."

2. Sample Dialog Two:

User: "Start Master Chef"

Master Chef: "Welcome to Master Chef! Say Begin to start."

User: "Start."

Master Chef: "There is no recipe loaded or we are not on the recipe ingredients step yet. Say main menu to go back to the main menu."

User: "Main menu."

Master Chef: "Recipe assistant, what recipe would you like to make? Say info to get a list of possible commands."

User: "Info."

Master Chef: "Here is a list of things you can say:

1. Oatmeal.
2. Bacon and Eggs.
3. Steak.
4. Fried Rice.
5. Cereal.
6. Pasta.

To choose one of these options, either say I would like to make x where x is one of the supported recipes. or say Find x where x is one of the supported recipes. If you need to go back, say main menu.'

User: "I want steak"

Master Chef: "Recipe loaded successfully. Say ingredients to start."

User: "Directions."

Master Chef: "There is no recipe loaded or we are not on the recipes directions step yet. Say main menu to go back to the main menu."

User: "Ingredients"

Master Chef: "Steak."

User: "what's the next ingredient?"

Master Chef: "oil"

User: "What was the last ingredient?"

Master Chef: "oil"

User: "Next"

Master Chef: "You are not in the directions step right now. Say main menu to go back to the main menu. Say next ingredient if you in the ingredient step."

User: "Next Ingredient"

Master Chef: "Garlic."

User: "Ok what else"

Master Chef: "Salt"

User: "Last Ingredient"

Master Chef: "Salt"

User: "Next Ingredient"

Master Chef: "Pepper. Now that you have all the ingredients, let us get cooking. Please say read recipe or start to begin. Say main menu to go back to the main dialogue."

User: "Last Ingredient"

Master Chef: "Pepper. Now that you have all the ingredients, let us get cooking. Please say read recipe or start to begin. Say main menu to go back to the main dialogue."

User: "Start again."

Master Chef: "Steak."

... <Skipping Repeated Prompt Out of Respect For You> ...

User: "Next Ingredient"

Master Chef: "Pepper. Now that you have all the ingredients, let us get cooking. Please say read recipe or start to begin. Say main menu to go back to the main dialogue."

User: "Give me the directions."

Master Chef: "Marinate steak with salt and pepper."

User: "Can you repeat the directions?"

Master Chef: "Marinate steak with salt and pepper."

User: "Ok what next?"

Master Chef: "Add minced garlic if you would like."

User: "Can you repeat that last direction?"

Master Chef: "Add minced garlic if you would like."

User: "Ok, next."

Master Chef: "Put oil on pan and it heat up"

User: "Ok, what's the next direction."

Master Chef: "Cook steak for 10 minutes. That was the final step. Say start again to start again. Say main menu go back to the main dialogue."

User: "What was that last direction?"

Master Chef: "Cook steak for 10 minutes. That was the final step. Say start again to start again. Say main menu go back to the main dialogue."

User: "Start again."

Master Chef: "Marinate steak with salt and pepper."

... <Skipping Repeated Prompt Out of Respect For You> ...

User: "Next direction."

Master Chef: "Cook steak for 10 minutes. That was the final step. Say start again to start again. Say main menu go back to the main dialogue."

User: "What was the previous ingredient?"

Master Chef: "You are not in the ingredient step right now. Say main menu to go back to the main menu."

User: "Go back to the main menu."

Master Chef: "Recipe assistant, what recipe would you like to make? Say info to get a list of possible commands."

User: "Give me options, Alexa."

Master Chef: "Here is a list of things you can say:

1. Oatmeal.
2. Bacon and Eggs.
3. Steak.
4. fried rice.
5. Cereal.
6. Pasta.

To choose one of these options, either say I would like to make x where x is one of the supported recipes. or say Find x where x is one of the supported recipes. If you need to go back, say main menu.'

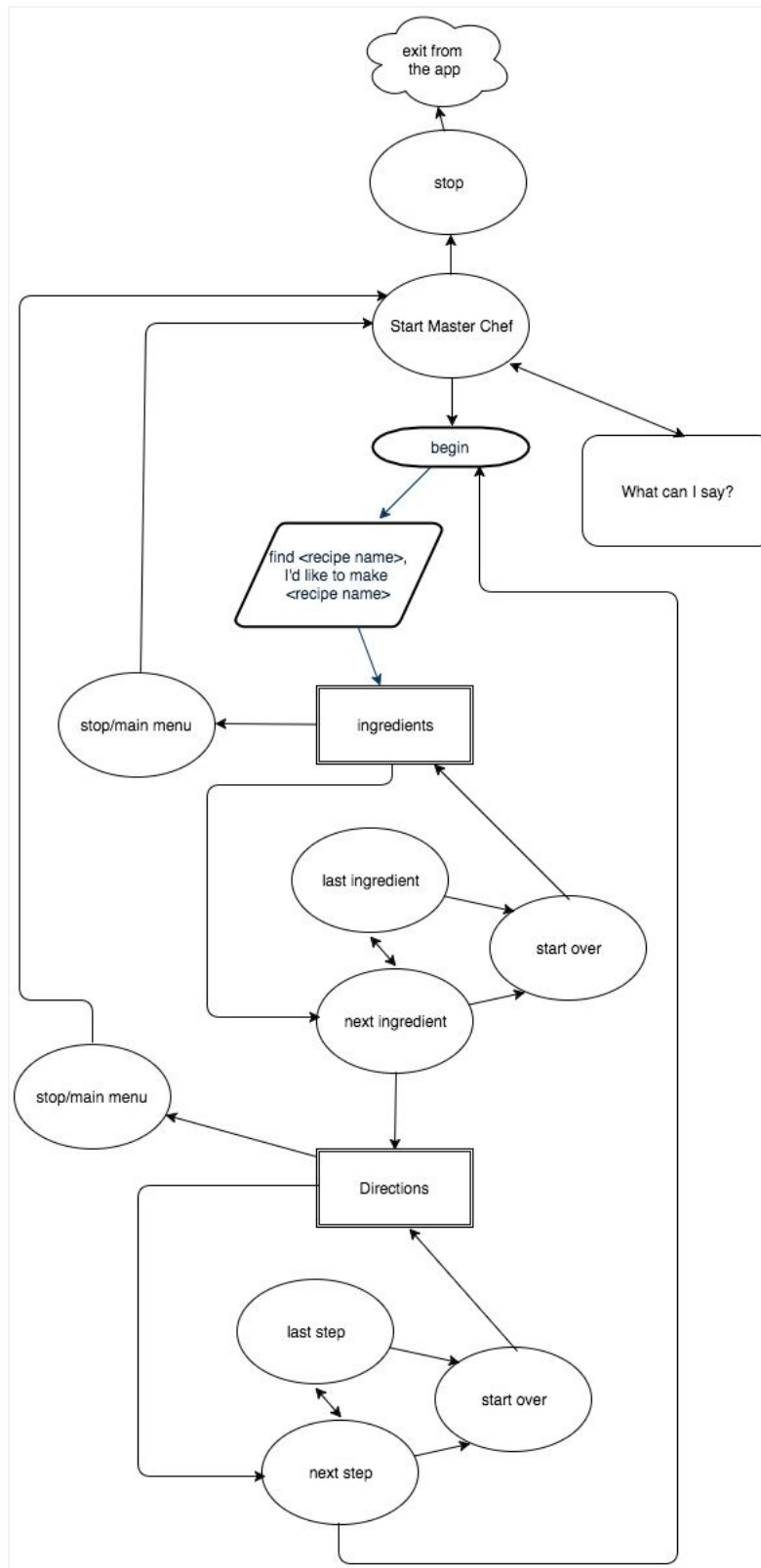
User: "Pizza"

Master Chef: "I am sorry. I did not understand that. Say main menu to go back to the main menu."

User: "I'm not hungry anymore"

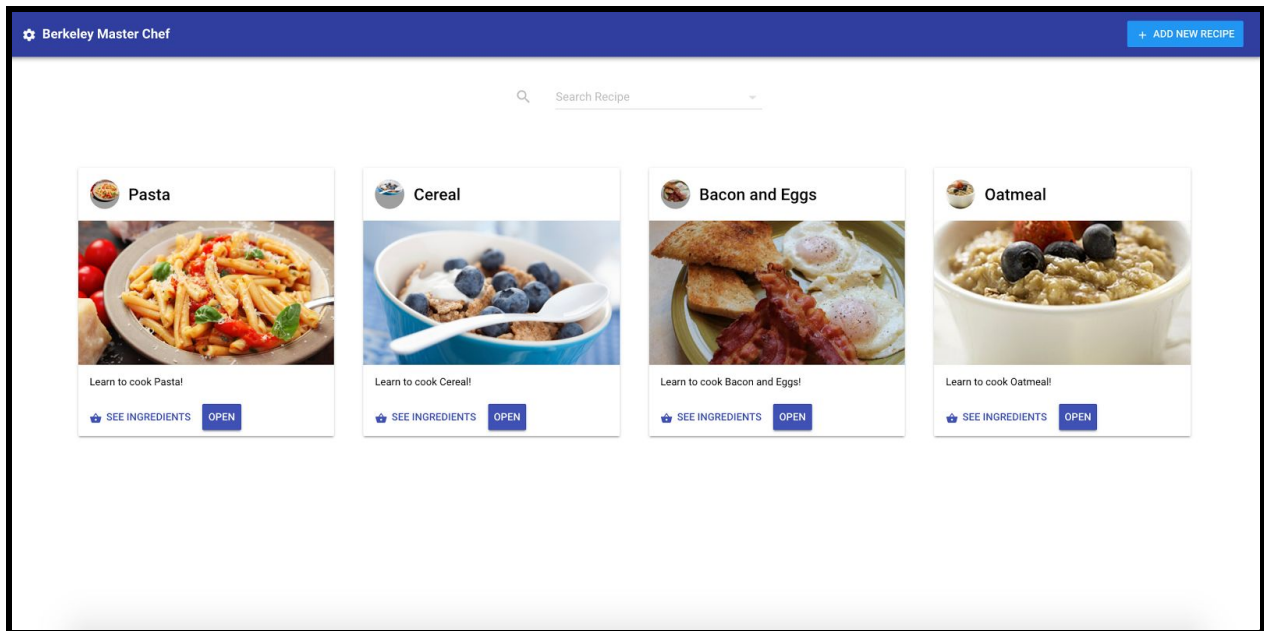
Master Chef: "Thank you for using Master Chef. Now quitting the app."

Flowchart



Screenshots

Our Main Website

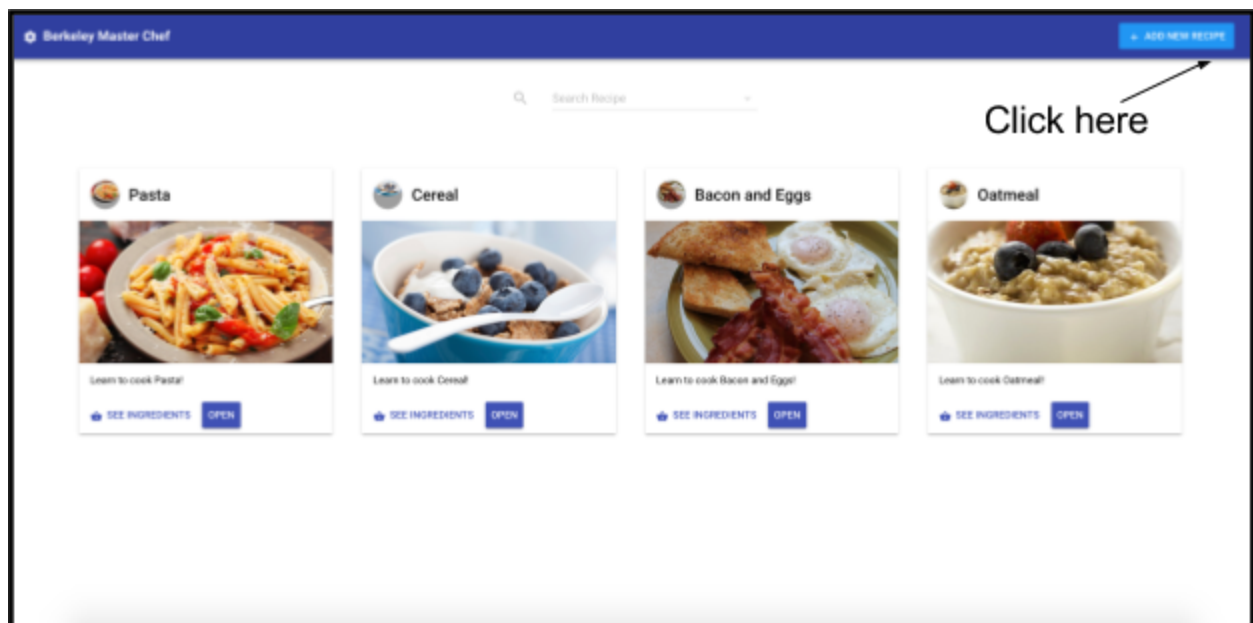


How to Add a Recipe?

GOAL: We will want to add the recipe for Fried Rice and Steak

STEP1:

CLICK THE ICON <ADD NEW RECIPE>



STEP2:
POP-UP WINDOW APPEARS AND YOU FILL OUT THE FORM

The screenshot displays the Berkeley Master Chef application interface. At the top, a dark blue header bar contains a gear icon, the text "Berkeley Master Chef", and a blue button labeled "+ ADD NEW RECIPE". Below the header is a search bar with a magnifying glass icon and the placeholder text "Search Recipe". The main content area is dimmed, showing recipe cards for "Pasta" and "Oatmeal". Each card includes a food image, the recipe name, a brief description, and two buttons: "SEE INGREDIENTS" and "OPEN". A white "Add New Recipe" pop-up form is centered on the screen. The form has a title "Add New Recipe" and four input fields: "Recipe Name", "Ingredients", "Direction", and "Image URL". At the bottom right of the form are two buttons: "CANCEL" and "ADD RECIPE".

Berkeley Master Chef

+ ADD NEW RECIPE

Search Recipe

Pasta

Oatmeal

Learn to cook Pasta!

Learn to cook Oatmeal!

SEE INGREDIENTS OPEN

SEE INGREDIENTS OPEN

Add New Recipe

Recipe Name

Ingredients

Direction

Image URL

CANCEL ADD RECIPE

STEP3:
INSERT THE INFORMATION FOR <FRIED RICE>

Add New Recipe

Recipe Name

Fried Rice

Ingredients

Rice, Shrimps, Eggs, Soy Sauce, Sesame Oil

Direction

Shrimps and eggs and stir fry, Add soy sauce and egg and cook for another 5 min.

Image URL

http://life-in-the-loft-house.com/wp-content/uploads/2015/07/Chicken_Fried_Rice.jpg

CANCEL

ADD RECIPE

STEP4:
INSERT THE INFORMATION FOR <STEAK>

Add New Recipe

Recipe Name

Steak

Ingredients

Steak, Oil, Garlic, Salt, Pepper

Direction

garlic if you would like, Put oil on pan and let it heat up, Cook steak for 10 mins

Image URL



http://www.alfavito.com.ua/modules/pages/files/139322860754_1800.jpg



CANCEL



ADD RECIPE



STEP5:



YOU NOW SEE THE TWO ITEMS IN THE LIST (FRIED RICE AND STEAK)



**Steak**

Learn to cook Steak!
[SEE INGREDIENTS](#) [OPEN](#)

**Pasta**

Learn to cook Pasta!
[SEE INGREDIENTS](#) [OPEN](#)

**Fried Rice**

Learn to cook Fried Rice!
[SEE INGREDIENTS](#) [OPEN](#)

**Cereal**

Learn to cook Cereal!
[SEE INGREDIENTS](#) [OPEN](#)

**Bacon and Eggs**

Learn to cook Bacon and Eggs!
[SEE INGREDIENTS](#) [OPEN](#)


**Oatmeal**

Learn to cook Oatmeal!
[SEE INGREDIENTS](#) [OPEN](#)

Shopping List Page

THE RESULTS FROM ADDING <FRIED RICE> AND <STEAK> WHEN YOU CLICK THE <SEE INGREDIENTS> BUTTON FOR THE SELECTED DISH

Berkeley Master Chef

BACK TO HOME






Fried Rice

Ingredients for Fried Rice


Please acquire below ingredients for Fried Rice.

Ingredients

-  Rice
-  Shrimps
-  Eggs

Berkeley Master Chef

BACK TO HOME






Steak

Ingredients for Steak

Please acquire below ingredients for Steak.

Ingredients

-  Steak
-  Oil
-  Garlic

Recipe Page






THE ENTIRE RECIPE FROM THE ADDED <FRIED RICE> AND <STEAK> WHEN YOU CLICK ON THE <OPEN> BUTTON FOR THE SELECTED DISH

Steak

Complete Guide for Steak

Please acquire below ingredients and follow directions to make Steak.

Ingredients

-  Steak
-  Oil
-  Garlic
-  Salt
-  Pepper

Directions






1. Marinate steak with salt and pepper
2. Add minced garlic if you would like
3. Put oil on pan and let it heat up
4. Cook steak for 10 mins

Fried Rice

Complete Guide for Fried Rice

Please acquire below ingredients and follow directions to make Fried Rice.

Ingredients

-  Rice
-  Shrimps
-  Eggs
-  Soy Sauce
-  Sesame Oil

Directions

1. Put oil on pan. Add shrimps and eggs and stir fry
2. Add soy sauce and egg and cook for another 5 min.