**OverVIew:**

For this project, we created an web UI and VUI that are both linked to a DynamoDB. User is able to input the recipe they want with the information of recipe name, ingredients, Directions and recipe image through the web UI. After inputting the information, User will be able to access the information through web UI and Voice UI. The webUI will display all the previous information in a formatted way and the Voice UI will read out the ingredient lists and direction lists one by one to give instructions to users.

**Flow Chart for VUI:**

Stop

Last Step

Next Step

Restart

Direction

(Start )

Restart

Stop

Last Ingredient

Next Ingredient

Ingredient

(Start ingredient)

(

Find Recipe

Ask Recipe

End of Ingredient

**Sample Scenario:**

Scenario 1:

User is cooking egg and bacon; his hands are both occupied. He ask alexa for instruction of the recipe he wanted to make.

Q: Alexa, recipe;

R: Recipe here what can I do for you

Q: find egg and bacon

R: Recipe found, you can check Ingredients by asking ingredient

Q: ingredient

R: your first ingredient is: egg

Q: next ingredient?

R your next ingredient is : bacon

Q: next ingredient?

R: you have reached the end of the ingredient list, say start to read the recipe.

Q:Start

R: the first step is: scramble the egg

Q: what do I do next

R: fry the bacon

Q:what is the last step again?

R: the previous step is scramble the egg.

…

Scenario 2:

User is very new to the alexa VUI, he is exploring ways to use this application.

Q: Alexa, recipe;

R: Recipe here what can I do for you

Q: What can I say?

R: To access your recipe, say find plus your recipe name or say "exit" to quit the recipe

Q: great! Find egg and bacon

R: Recipe found, you can check Ingredients by asking ingredient

Q: ingredient

R:your first ingredient is “egg”

Q: what can I say?

R: to restart the ingredient list, say restart, To advance in ingredient list, say next ingredient, to go back in ingredient list, say last ingredinet, to exit to main menu, say stop','List of help command