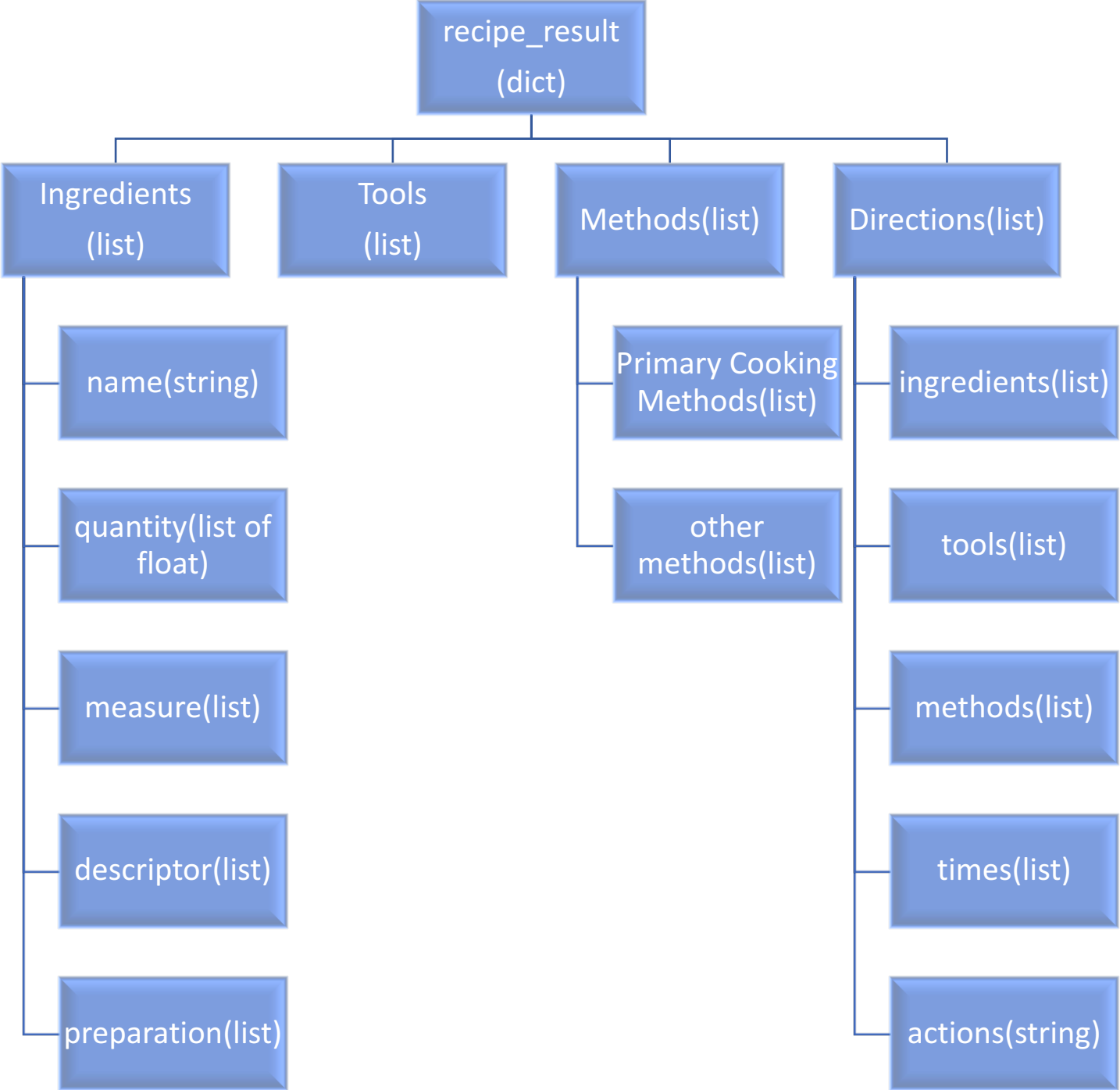
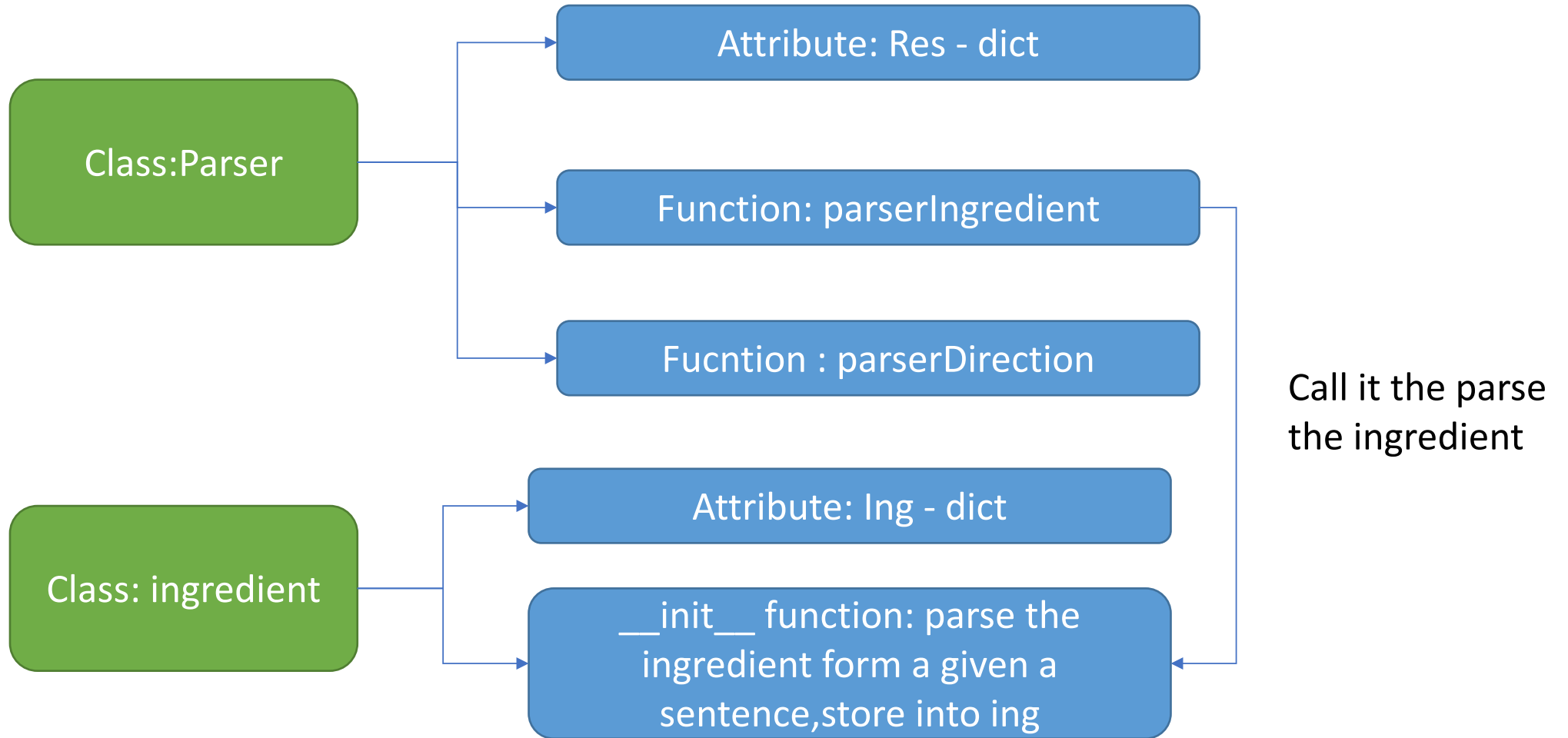


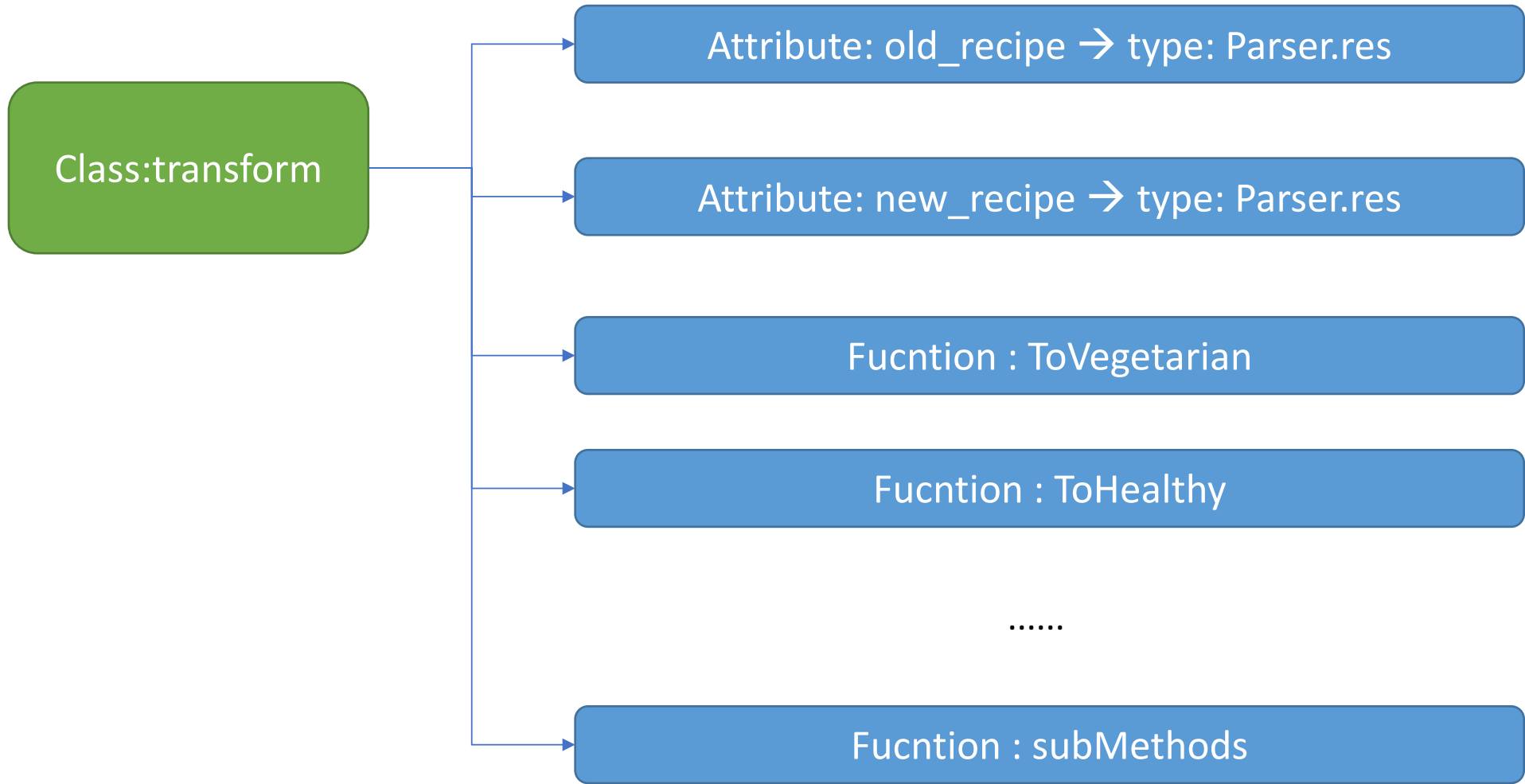
Recipe Project

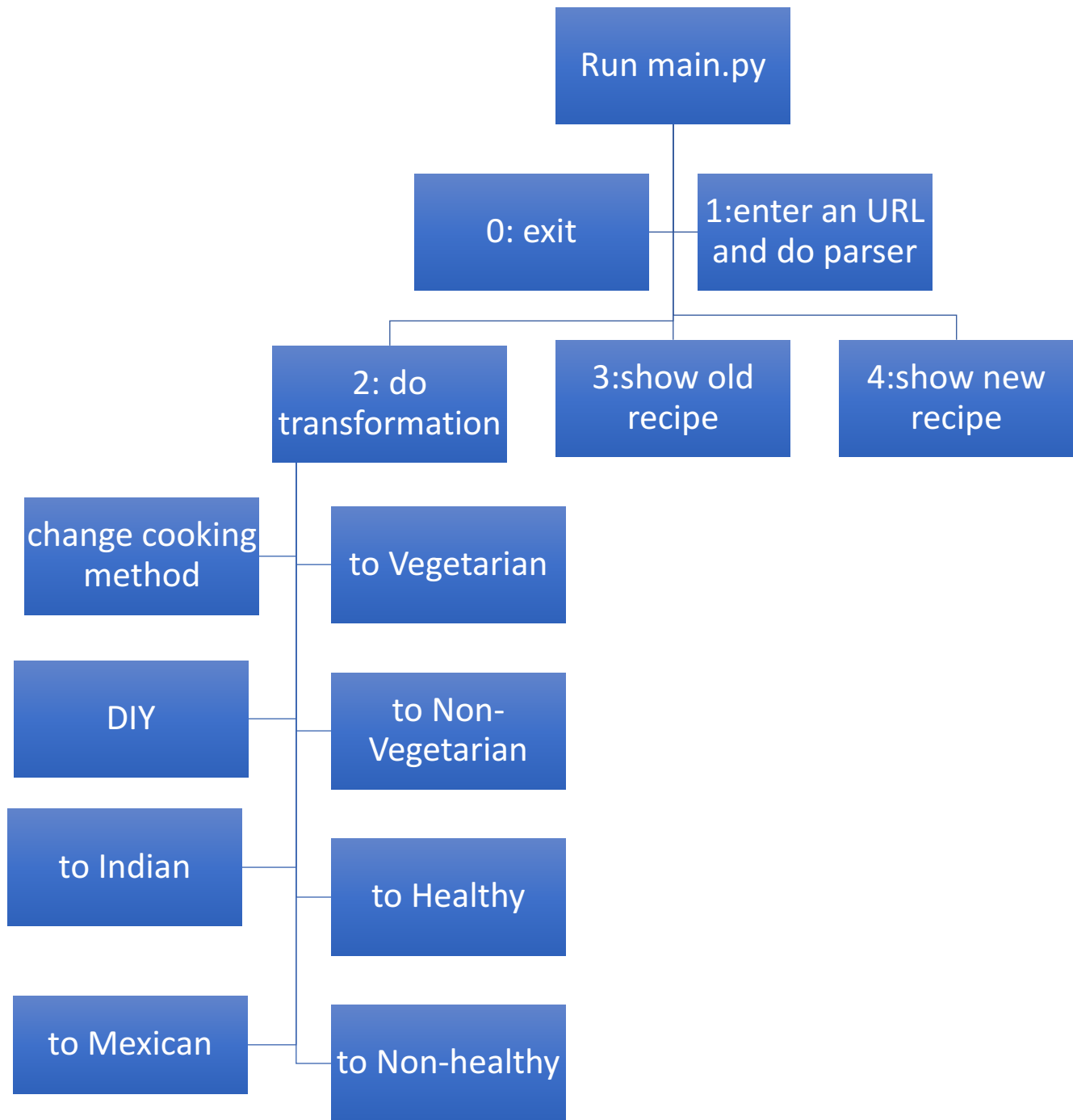
Jiahua Chen, Andrew Kluge

Data structure









parser

- Quantity
 - Regex expression
- Measures
 - Define a list of measures, tokenize, and find the words in the list
- Descriptor
 - Define a list of descriptors
 - tokenize, use **bigrams** and find the phases in the list
- Preparation
 - Define a list of preparation
 - tokenize, use **bigrams** and find the phases in the list
- Name
 - Tokenize
 - remove the words used
 - Remove **stopwords**

Transformation-To Vegetarian

- Step 1:
 - meatList: list of ingredients of meat
 - commomNonMeatList: list of ingredients of commom non-Meat
- Step 2:
 - Traverse all the ingredients of the original recipe
 - If find a meat ingredient, replace with one ingredient of commomNonMeatList
 - **Replacement**: including the ingredients and the directions
 - **Keep the quantity and the methods** of the original ingredients

Transformation-To NonVegetarian

- Step 1:
 - nonMeatList: list of ingredients of nonMeat (not including spices, just only some non-meat food)
 - commomMeatList: list of ingredients of common Meat
- Step 2:
 - Traverse all the ingredients of the original recipe
 - If find a non-Meat ingredient, replace with one ingredient of commomMeatList
 - **Replacement**: including the ingredients and the directions
 - **Keep the quantity and the methods** of the original ingredients

Transformation-To Healthy

- A dict : NonHealthy ingredient -> Healthy ingredient
- Operation:
 - **Replacement**: NonHealthy ingredient -> Healthy ingredient
 - **Decrease the quantity**
 - Sugar
 - Butter

Transformation-To nonHealthy

- A dict : healthy ingredient -> nonHealthy ingredient
- Operation:
 - **Replacement**: healthy ingredient -> nonHealthy ingredient
 - Need to look at its **descriptor** when check an ingredient if healthy or not
 - **Increase the quantity**
 - Sugar
 - Butter

Transformation-To Mexican

- A dict : Non-Mexican ingredient -> Mexican ingredient
 - Meats
 - Vegetable
- A list of Mexican Spices
- Operation:
 - **Replacement:**
 - Non-Mexican ingredient -> Mexican ingredient
 - Including meats, vegetables
 - Spices -> Mexican Spices

Transformation-To Indian

- A dict : Non-Indian ingredient -> Indian ingredient
 - Meats
 - Vegetable
- Common indian Spices
- Operation:
 - **Replacement:**
 - Non-Indian ingredient -> Indian ingredient
 - Including meats, vegetables
 - Spices -> Indian Spices

DIY

- A list of common spices
 - ["salt", "pepper", "garlic", "onion", "butter", "oil", "water"]
- Operation:
 - **Remove** the spices that are not common spices

Substitution of cooking method

- Step 1: Show current primary cooking methods
- Step 2: Show optional substitutes of primary cooking methods
- Step 3: The user **specified** the selection
- Step 4: Do the replacement