Starbucks Recommendation

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Project Description

- Our project is a Starbucks recommendation system
- Users can provide input on their likes and dislikes
    - For example: Low sugar, low calories, high caffeine
- With the users input, the Database will sort through the data and pull out some drink recommendation that match their criteria
- We are using Kaggle for our Starbucks nutrition database

Use Cases

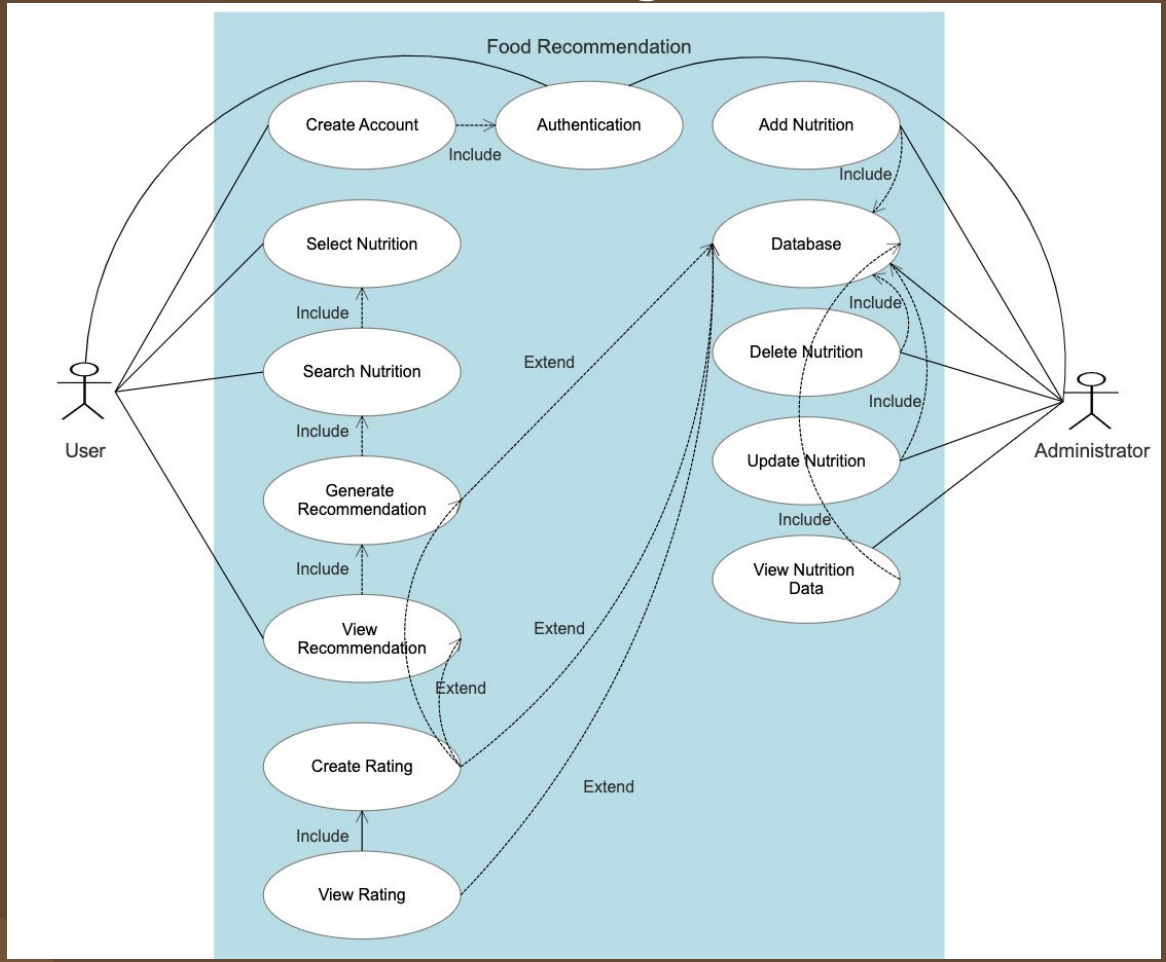
User use case:

- Able to view the recommendation generated from search
- User is able to rate the items in the menu that's suggested to them

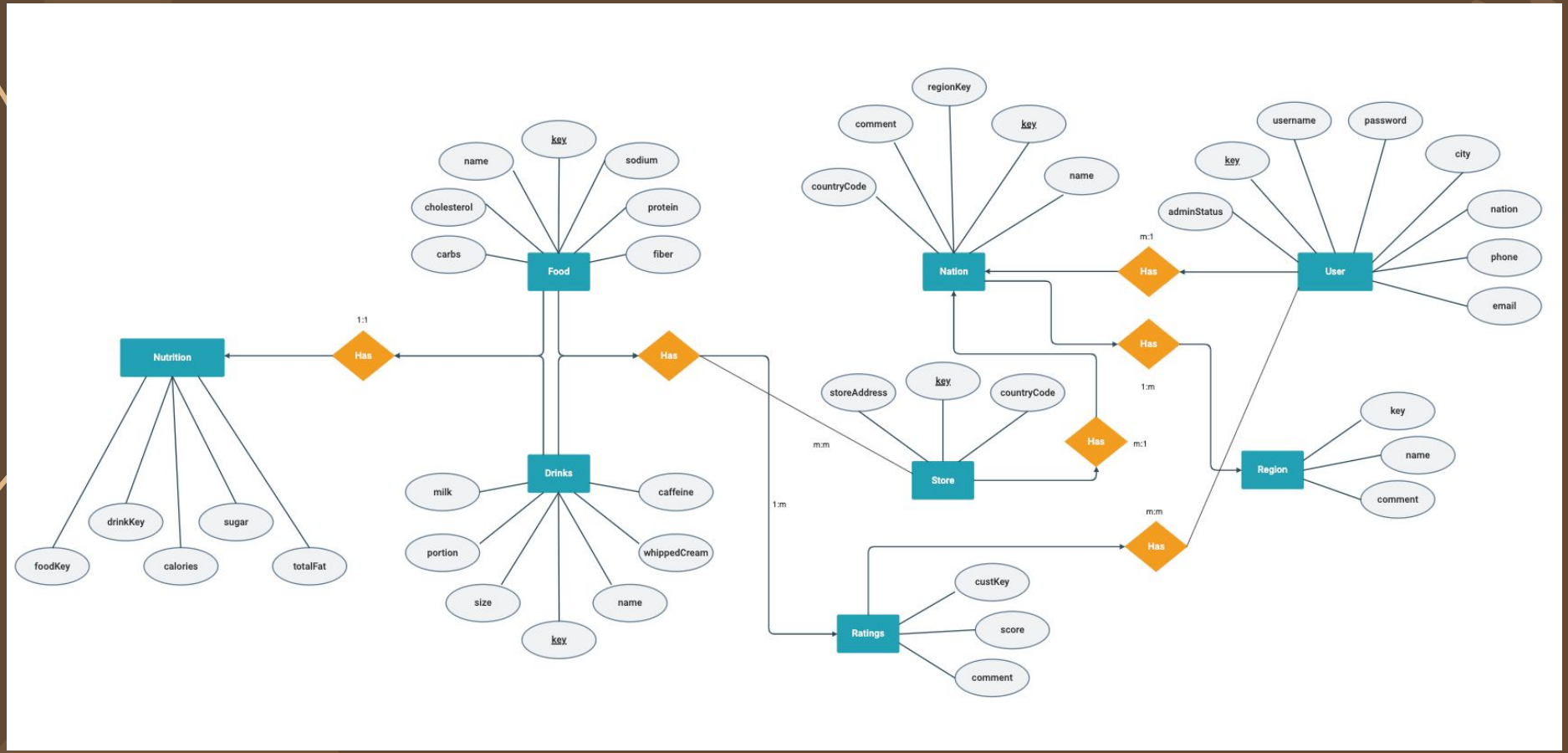
Admin user case:

- Able to view, edit, update, delete data from the database

UML Diagram


Food Recommendation
Create Account
Authentication
Include
Add Nutrition
Include
Select Nutrition
Database
Include
Include
Search Nutrition
Extend
Delete Nutrition
Include
User
Include
Generate Recommendation
Update Nutrition
Administrator
Include
Include
View Nutrition Data
View Recommendation
Extend
Extend
Create Rating
Extend
Include
View Rating

E/R Diagram


Food
key
name
sodium
cholesterol
protein
carbs
fiber
Nutrition
foodKey
drinkKey
calories
sugar
totalFat
Has
1:1
Has
Drinks
milk
caffeine
portion
whippedCream
size
name
key
1:m
Ratings
custKey
score
comment
m:m
Has
Store
storeAddress
key
countryCode
Has
m:1
1:m
Has
Nation
regionKey
comment
key
name
countryCode
m:1
Has
User
username
password
key
city
adminStatus
nation
phone
email
Has
Region
key
name
comment

Relational Schema

Customer

- c_custKey
- c_custUser
- c_custPass
- c_custCity
- c_custNation
- c_custEmail
- c_custPhoneNumber
- c_custAdminStatus

Food

- f_foodKey
- f_foodCategory
- f_foodName
- f_foodCholesterol
- f_foodSodium
- f_foodCarbs
- f_foodFiber
- f_foodProtein

Store

- s_storeKey
- s_storeCountryCode
- s_storeAddress

Ratings

- r_ratingScore
- r_ratingComment
- r_custKey

Drinks

- d_drinkKey
- d_drinkCategory
- d_drinkName
- d_drinkPortion
- d_drinkCaffeine
- d_drinkSize
- d_drinkMilk
- d_drinkWhippedCream

Nation

- n_nationKey
- n_nationName
- n_regionKey
- n_comment
- n_nationCountryCode

Nutrition

- u_category
- nu_name
- nu_calories
- nu_sugar
- nu_totalFat

n

Region

- r_regionkey
- r_regionName
- r_comment

Implementation Details

Integrated Development Environment (IDE)
- Visual Studio Code

Database
- SQLite3

Language
- Python (using FLASK), HTML, CSS

Thank You!