This is the storage class for the ingredient information that will be store on the table.

|  |
| --- |
| **Class Ingredient** |
| Input:  - name (str)    Properties (PRIVATE):  - globalSafe (bool)  - commonNames (list)  - details (str)  - URL (str)  - rawInfoFromUrl  - sanitizedStr |
| Functions:  - getters  - setters |

Get information regarding an “ingredient” from URL

|  |
| --- |
| **Class HTTPGetter** |
| Input:  - ingredient (str)  - List of URLs (list) |
| Functions:  - getFromUrl() return string |

Purely parses any previous object string to sanitize it

|  |
| --- |
| **Class ParseRawInfo** |
| Input:  - HTTPGetter output (str) |
| Functions:  - sanitize() return string |

|  |
| --- |
| **Class AnalyzeIngredient** |
|  |
| Functions:  - checkSafeOrNot (obj ingredients) return Null  - checkOtherNames (obj ingredients) returns Null |

Notes:

AnalyzeIngredient Class will need to be made “Abstract”, and then have children classes to inherit from it. Each child class pertains to a specific URL (different analysis approach)

|  |
| --- |
| **Class UpdateTable** |
| Input:  - List of Ingredient objects (list) |
| Functions:  - dropTable() return Null  - updateTable() return Null |

Note:

* Update table by demand (user searches for ingredients)
* If an existing update has been more than a time “x” (e.g. 1 year), then drop the table, and re-update it.

Ingredient-Key

|  |  |
| --- | --- |
| **Key** | **Names** |
| 2 | Monosodium G |
| 2 | MSG |
| 1 |  |

Ingredient-Content

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **KeyID** | **URL** | **Safe** | **Details** | **LastUpdatedTime** |
| 1 |  |  | Peanut-free : false  Pregnancy-safe : true  Oliver-safe: false |  |
| 2 | http://www.canadaHealth.com&=MSG | False | Muscle-Shaking : true  Dried-mouth : true | Feb 14, 2017 19:30 |

keyId = sql(Select Key from Ingredient-Key where Other\_names = MSG)

Safe = sql (Select Safe from Ingredient-Content where key=”keyId”)

“Main” Class

|  |
| --- |
| **Class SearchAndAnalyze** |
| Input:  - List of Ingredient (list) |
| Functions:  - analyzeAll() return list of ingredient objects |