KHABO Class Diagram

Group Members

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1905111 - Zarif Ikram

1905113 - Anamul Hoque Emtiaj

1905114 - Sk. Saifullah Hafiz

Modules

- Ingredients Scraper
- Recipe Scraper
- Recipe Visualizer
- Intelligent Shop Suggester

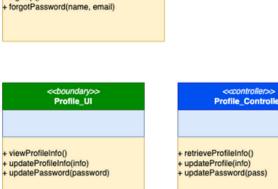
Full Class Diagram (1)

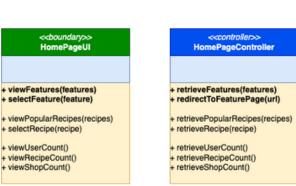
<
boundary>>> Log_in_Ui + enterLoginInfo(username, password) + forgotPassword(name, email) <
sign_Up_Ui

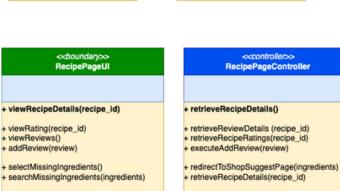
+ enterUserInfo(name, u_name, pass, email)

+ signUp()

login(username, password) + signup(username, password, email) forgotPassword(username, email)







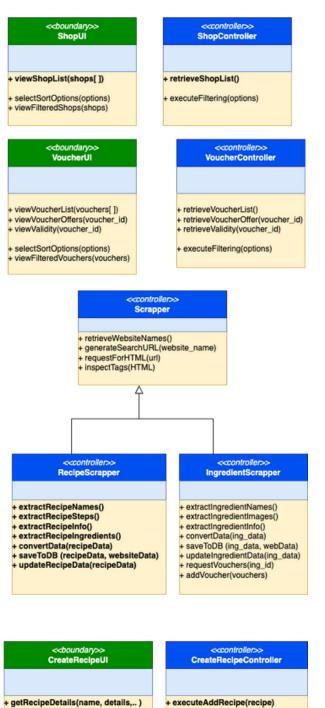


viewBundleList(bundles[])

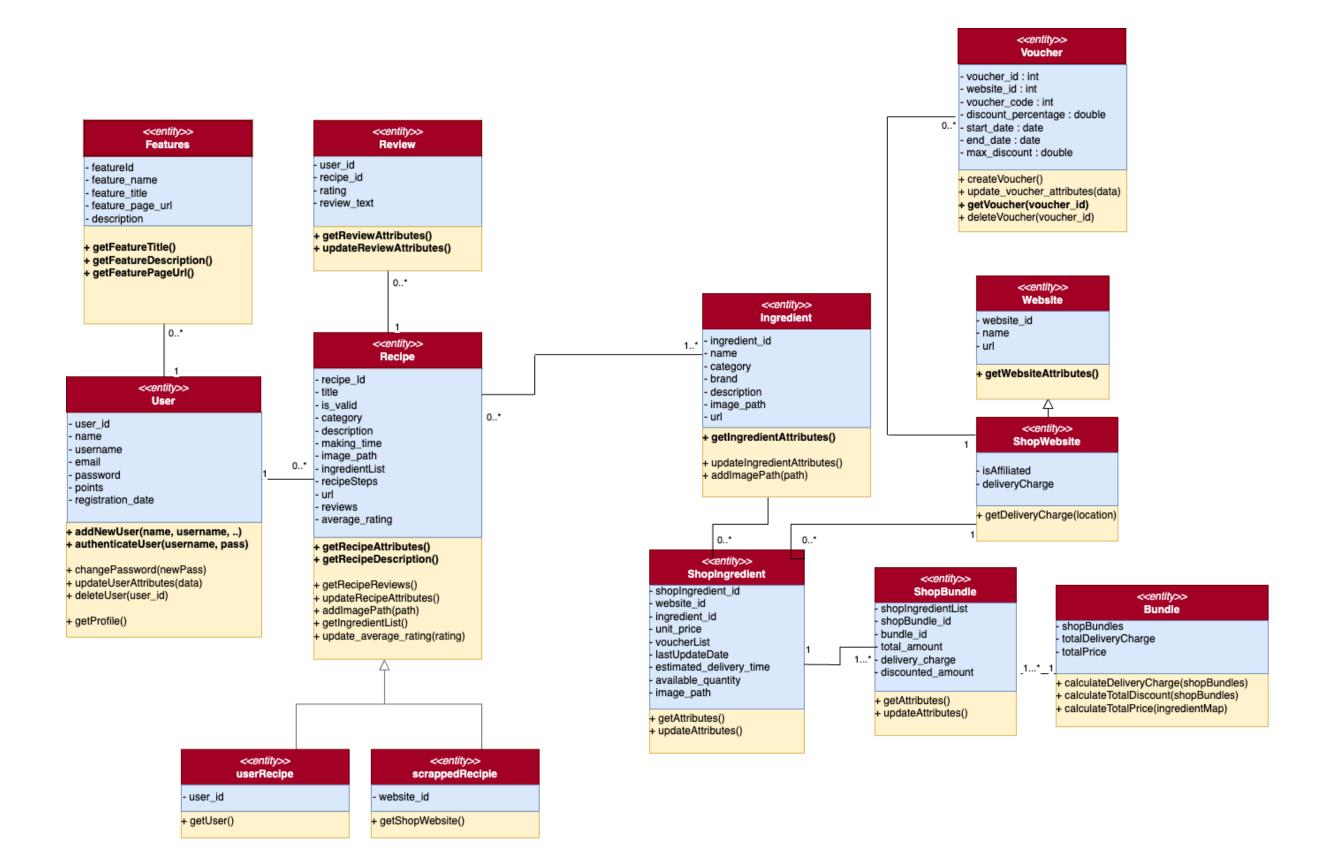
+ selectSortOptions(options)



+ addlmage(imagePath) + addRecipe(recipe)



Full Class Diagram (2)



Home Page

<
boundary>>
HomePageUI

- + viewFeatures(features)
- + selectFeature(feature)
- + viewPopularRecipes(recipes)
- + selectRecipe(recipe)
- + viewUserCount()
- + viewRecipeCount()
- + viewShopCount()

<controller>> HomePageController

- + retrieveFeatures(features)
- + redirectToFeaturePage(url)
- + retrievePopularRecipes(recipes)
- + retrieveRecipe(recipe)
- + retrieveUserCount()
- + retrieveRecipeCount()
- + retrieveShopCount()

<<entity>>

- featureld
- feature_name
- feature_title
- feature_page_url
- description
- + getFeatureTitle()
- + getFeatureDescription()
- + getFeaturePageUrl()

Home Page

<
boundary>>
HomePageUI

- + viewFeatures(features)
- + selectFeature(feature)
- + viewPopularRecipes(recipes)
- + selectRecipe(recipe)
- + viewUserCount()
- + viewRecipeCount()
- + viewShopCount()

<controller>> HomePageController

- + retrieveFeatures(features)
- + redirectToFeaturePage(url)
- + retrievePopularRecipes(recipes)
- + retrieveRecipe(recipe)
- + retrieveUserCount()
- + retrieveRecipeCount()
- + retrieveShopCount()

<<entity>> Recipe

- recipe_ld
- name
- category
- description
- making_time
- image_path
- ingredientList
- recipeSteps
- url
- reviews
- + getRecipeAttributes()
- + getRecipeDescription()
- + getRecipeReviews()
- + updateRecipeAttributes()
- + addImagePath(path)
- + getIngredientList()

Home Page

<
boundary>>>
HomePageUI

- + viewFeatures(features)
- + selectFeature(feature)
- + viewPopularRecipes(recipes)
- + selectRecipe(recipe)
- + viewUserCount()
- + viewRecipeCount()
- + viewShopCount()

<controller>> HomePageController

- + retrieveFeatures(features)
- + redirectToFeaturePage(url)
- + retrievePopularRecipes(recipes)
- + retrieveRecipe(recipe)
- + retrieveUserCount()
- + retrieveRecipeCount()
- + retrieveShopCount()

Authenticate User

<
boundary>>
Log_in_UI

- + enterLoginInfo(username, password)
- + login()
- + forgotPassword(name, email)

<
boundary>>
Sign_Up_Ui

- + enterUserInfo(name, u_name, pass, email)
- + signUp()
- + forgotPassword(name, email)

<<controller>> Authentication_Controller

- + login(username, password)
- + signup(username, password, email)
- + forgotPassword(username, email)

<<entity>> User

- · user_id
- name
- username
- email
- password
- points
- registration_date
- + addNewUser(name, username, ..)
- + authenticateUser(username, pass)
- + changePassword(newPass)
- + updateUserAttributes(data)
- + deleteUser(user_id)
- + getProfile()

User Profile



- + viewProfileInfo()
- + updateProfileInfo(info)
- + updatePassword(password)

<controller>> Profile_Controller

- + retrieveProfileInfo()
- + updateProfile(info)
- + updatePassword(pass)

<<entity>>

- user_id
- name
- username
- email
- password
- points
- registration_date
- + addNewUser(name, username, ..)
- + authenticateUser(username, pass)
- + changePassword(newPass)
- + updateUserAttributes(data)
- + deleteUser(user_id)
- + getProfile()

Search and Filter (Ingredients)

<
boundary>> Search_Ingredients_UI

- + giveQuery(ingredients)
- + viewSearchResults(recipes)
- + selectSortOptions(options)
- + viewFilteredRecipes(recipes)

<<controller>> Search_Ingredients_Control

- + executeQuery(ingredients)
- + retrieveRecipeList()
- + executeFiltering(options)

<<entity>> Ingredients

- ingredient_id
- name
- category
- description
- brand
- image_path
- + getIngredientAttributes()
- + getIngredientDescription()
- + updateIngredientAttributes()
- + addImagePath(path)

Search and Filter (Ingredients)

<

 Search_Ingredients_UI

- + giveQuery(ingredients)
- + viewSearchResults(recipes)
- + selectSortOptions(options)
- + viewFilteredRecipes(recipes)

<controller>> Search_Ingredients_Control

- + executeQuery(ingredients)
- + retrieveRecipeList()
- + executeFiltering(options)

<<entity>> Recipe

- recipe_ld
- name
- category
- description
- making_time
- image_path
- ingredientList
- recipeSteps
- url
- reviews
- + getRecipeAttributes()
- + getRecipeDescription()
- + getRecipeReviews()
- + getIngredientList()
- + updateRecipeAttributes()
- + addImagePath(path)

Search and Filter (Recipes)

<
boundary>>
SearchRecipeUI

- + giveQuery(query)
- + viewSearchResults(recipes[])
- + selectFeaturedRecipes(recipe)
- + selectSortOptions(options)
- + viewFilteredRecipes(recipes)

<<controller>> SearchRecipe_Control

- + executeQuery(query)
- + retrieveRecipeList()
- + executeFiltering(options)

<<entity>>> Recipe

- recipe_ld
- name
- category
- description
- making_time
- image_path
- ingredientList
- recipeSteps
- url
- reviews
- + getRecipeAttributes()
- + getRecipeDescription()
- + getRecipeReviews()
- + getIngredientList()
- + updateRecipeAttributes()
- + addImagePath(path)

Search and Filter (Recipes)

<
boundary>>
SearchRecipeUl

- + giveQuery(query)
- + viewSearchResults(recipes[])
- + selectFeaturedRecipes(recipe)
- + selectSortOptions(options)
- + viewFilteredRecipes(recipes)

<<controller>> SearchRecipe_Control

- + executeQuery(query)
- + retrieveRecipeList()
- + executeFiltering(options)

<<entity>> Recipe

- recipe_ld
- name
- category
- description
- making_time
- image_path
- ingredientList
- recipeSteps
- url
- reviews
- + getRecipeAttributes()
- + getRecipeDescription()
- + getRecipeReviews()
- + getIngredientList()
- + updateRecipeAttributes()
- + addImagePath(path)

View Recipe List

<
koundary>>
RecipeUl

- + selectRecipe(url)
- + viewRecipeDetails(recipe_id)
- + viewRating(recipe_id)

<<controller>> RecipeController

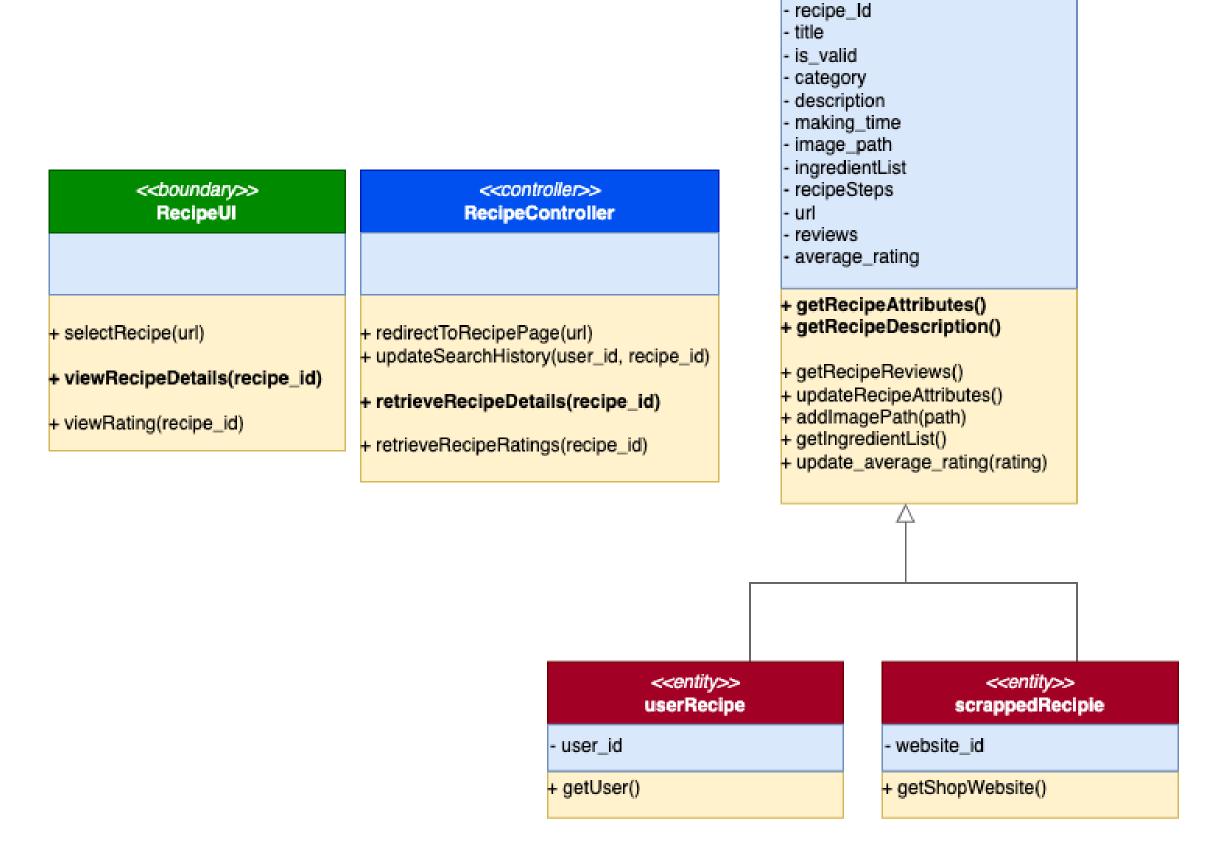
- + redirectToRecipePage(url)
- + updateSearchHistory(user_id, recipe_id)
- + retrieveRecipeDetails(recipe_id)
- + retrieveRecipeRatings(recipe_id)

<<entity>>> SearchHistory

- user_id
- recipe_id
- searchCount
- + updateCount(count)

View Recipe List

<<entity>> Recipe



View Recipe List

<
coundary>>
RecipeUI

- + selectRecipe(url)
- + viewRecipeDetails(recipe_id)
- + viewRating(recipe_id)

<controller>> RecipeController

- + redirectToRecipePage(url)
- + updateSearchHistory(user_id, recipe_id)
- + retrieveRecipeDetails(recipe_id)
- + retrieveRecipeRatings(recipe_id)

<<entity>> Review

- user_id
- recipe_id
- rating
- review_text
- + getReviewAttributes()
- + updateReviewAttributes()

View Ingredient



- + selectIngredient(url)
- + viewIngredientInfo(ingredient_id)

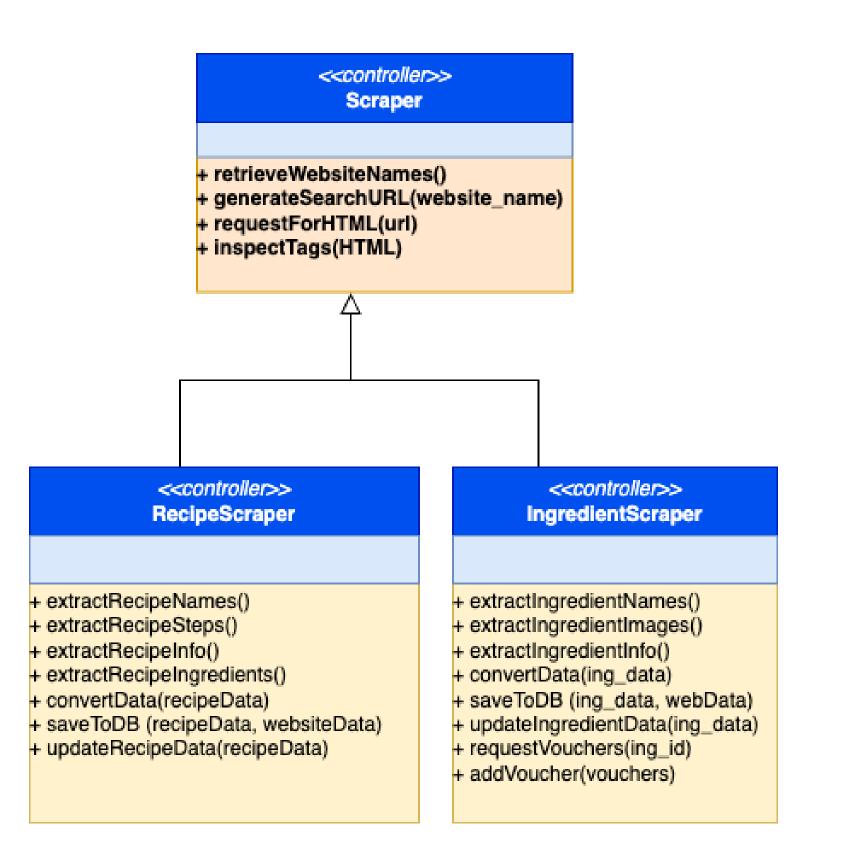
<controller>> IngredientController

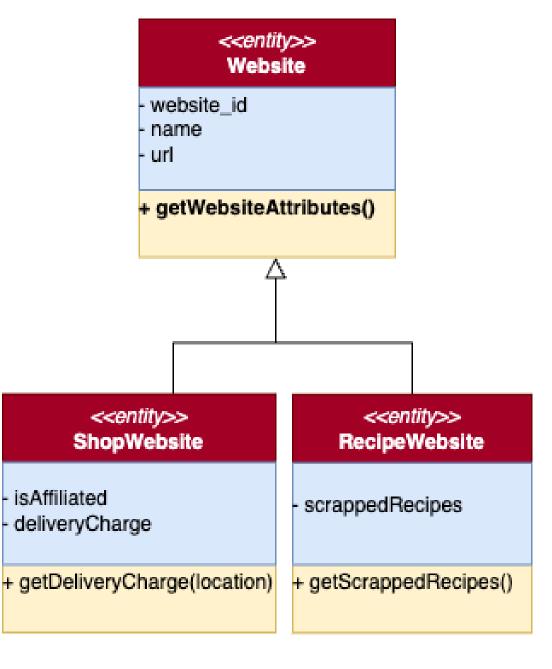
- + redirectToWebsite(url)
- + retrievelngredientInfo(ingredient_id)

<<entity>> Ingredient

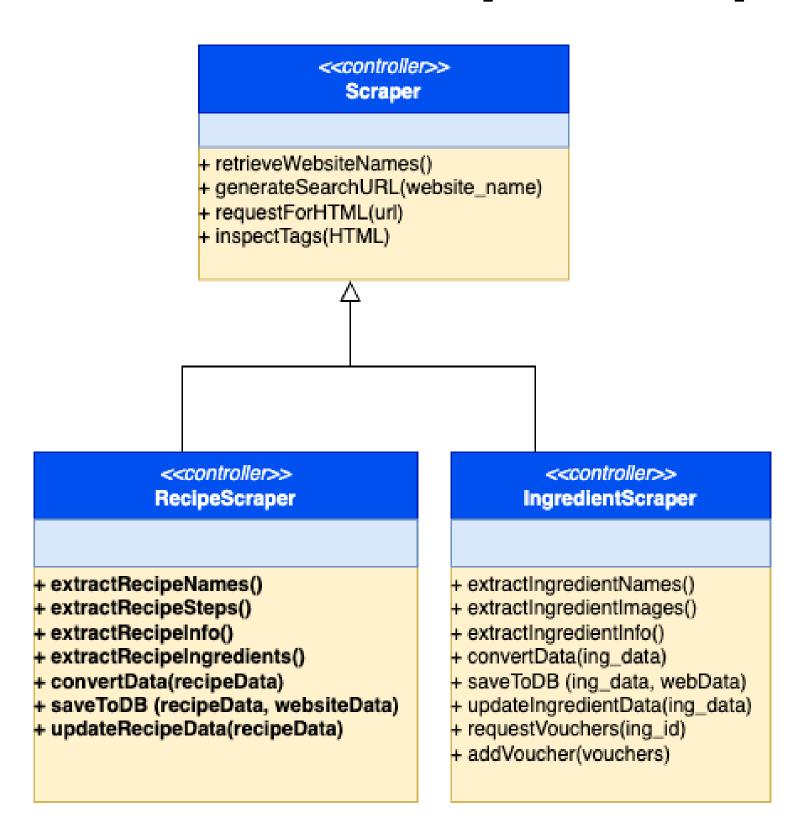
- ingredient_id
- name
- category
- brand
- description
- image_path
- url
- + getIngredientAttributes()
- + updateIngredientAttributes()
- + addImagePath(path)

Scraper





Recipe Scraper



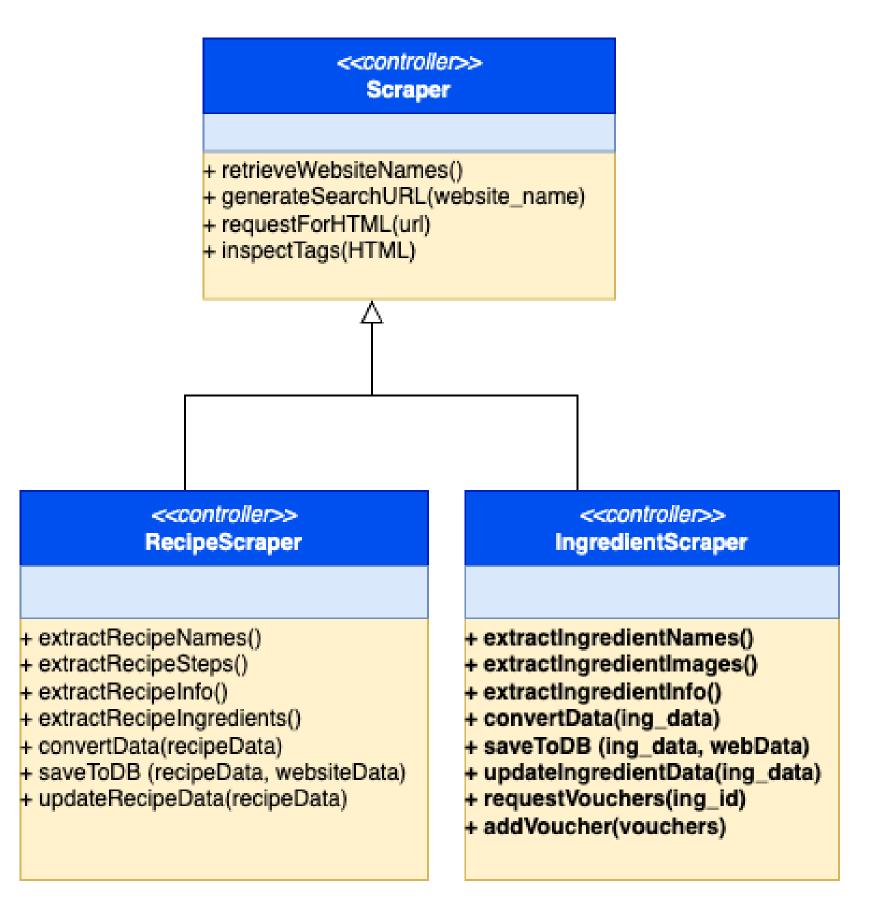
<<entity>> Recipe

- recipe_ld
- name
- category
- description
- making_time
- image_path
- ingredientList
- recipeSteps
- url
- reviews
- + getRecipeAttributes()
- + getRecipeDescription()
- + getRecipeReviews()
- + getIngredientList()
- + updateRecipeAttributes()
- + addlmagePath(path)

<<entity>> RecipeStep

- recipe_ld
- stepNumber
- stepDetails
- imagePath
- + getStepDetails()

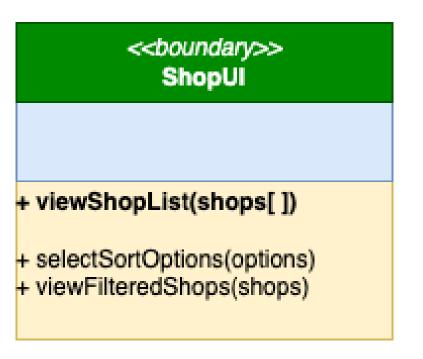
Ingredient Scraper



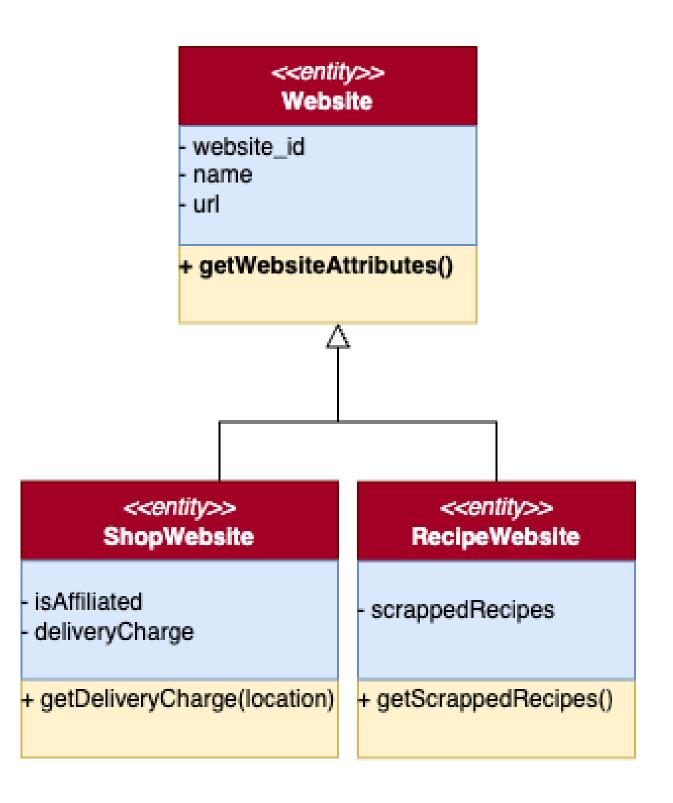
<<entity>> Ingredient

- ingredient_id
- name
- category
- brand
- description
- image_path
- url
- + getIngredientAttributes()
- + updateIngredientAttributes()
- + addlmagePath(path)

Show Shop List







Show Vouchers

<
voucherUl

- + viewVoucherList(vouchers[])
- + viewVoucherOffers(voucher_id)
- + viewValidity(voucher_id)
- + selectSortOptions(options)
- + viewFilteredVouchers(vouchers)

<<controller>> VoucherController

- + retrieveVoucherList()
- + retrieveVoucherOffer(voucher_id)
- + retrieveValidity(voucher_id)
- + executeFiltering(options)

<<entity>>

- voucher_id : intwebsite_id : int
- voucher_code : int
- discount_percentage : double
- start_date : date
- end_date : date
- max_discount : double
- + createVoucher()
- + update_voucher_attributes(data)
- + getVoucher(voucher_id)
- + deleteVoucher(voucher_id)

Show A Recipe

<
koundary>>
RecipePageUl

- + viewRecipeDetails(recipe_id)
- + viewRating(recipe_id)
- + viewReviews()
- + addReview(review)
- + selectMissingIngredients()
- + searchMissingIngredients(ingredients)

<<controller>> RecipePageController

- + retrieveRecipeDetails()
- + retrieveReviewDetails (recipe_id)
- + retrieveRecipeRatings(recipe_id)
- + executeAddReview(review)
- + redirectToShopSuggestPage(ingredients)
- + retrieveRecipeDetails(recipe_id)

<<entity>> Recipe

- recipe_ld
- title
- is_valid
- category
- description
- making_time
- · image_path
- ingredientList
- recipeSteps
- url
- reviews
- average_rating
- + getRecipeAttributes()
- + getRecipeDescription()
- + getRecipeReviews()
- + updateRecipeAttributes()
- + addImagePath(path)
- + getIngredientList()
- + update_average_rating(rating)

<<entity>>
userRecipe
- user_id

+ getUser()

<<entity>> scrappedRecipie

website_id

+ getShopWebsite()

Show A Recipe

<
boundary>>
RecipePageUI

- + viewRecipeDetails(recipe_id)
- + viewRating(recipe_id)
- + viewReviews()
- + addReview(review)
- + selectMissingIngredients()
- + searchMissingIngredients(ingredients)

<<controller>> RecipePageController

- + retrieveRecipeDetails()
- + retrieveReviewDetails (recipe_id)
- + retrieveRecipeRatings(recipe_id)
- + executeAddReview(review)
- + redirectToShopSuggestPage(ingredients)
- + retrieveRecipeDetails(recipe_id)

<<entity>>

- user_id
- recipe_id
- rating
- review_text
- + getReviewAttributes()
- + updateReviewAttributes()

Show A Recipe

<

 RecipePageUl

- + viewRecipeDetails(recipe_id)
- + viewRating(recipe_id)
- + viewReviews()
- + addReview(review)
- + selectMissingIngredients()
- + searchMissingIngredients(ingredients)

<<controller>> RecipePageController

- + retrieveRecipeDetails()
- + retrieveReviewDetails (recipe_id)
- + retrieveRecipeRatings(recipe_id)
- + executeAddReview(review)
- + redirectToShopSuggestPage(ingredients)
- + retrieveRecipeDetails(recipe_id)

<controller>> SuggestedBundlesController

- object: RecipePageController
- ingredientList
- bundles
- suggestedBundles
- + getIngredientList(object)
- + makeShopBundles(ingredientList)
- + makeBundles(shopBundles)
- + suggestBundles(bundles)
- + executeFiltering(options)

Intelligent Shop Suggestion

<

 SuggestedBundlesUI

- + viewBundleList(bundles[])
- + selectSortOptions(options)
- + viewFilteredBundles(bundles)

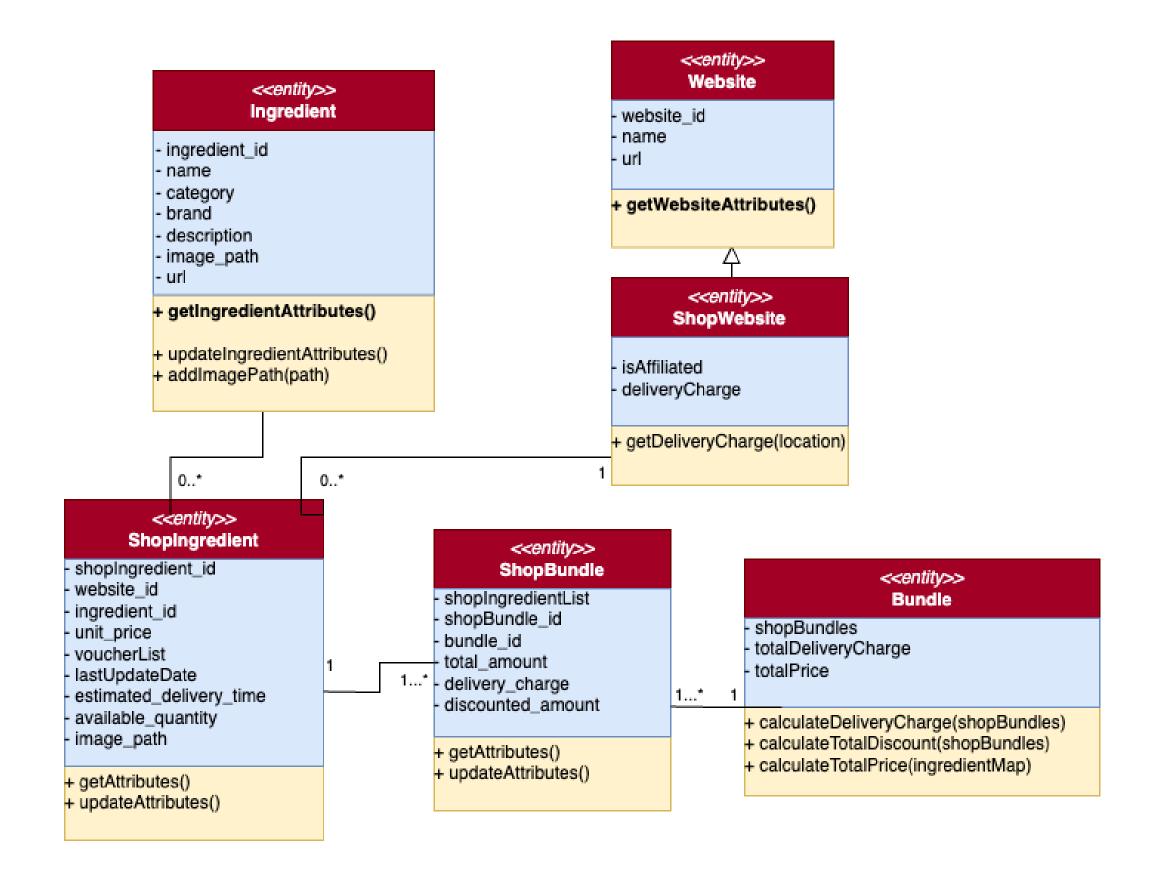
<controller>> SuggestedBundlesController

- object: RecipePageController
- ingredientList
- bundles
- suggestedBundles
- + getIngredientList(object)
- + makeShopBundles(ingredientList)
- + makeBundles(shopBundles)
- + suggestBundles(bundles)
- + executeFiltering(options)

<<entity>> Bundle

- shopBundles
- totalDeliveryCharge
- totalPrice
- + calculateDeliveryCharge(shopBundles)
- + calculateTotalDiscount(shopBundles)
- + calculateTotalPrice(ingredientMap)

Bundle Hierarchy



THANK YOU

#TEAM_KHABO