**Data Dictionaries**

**Description data dictionary**

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| --- | --- | --- | --- |
| **Entity name** | **Description** | **Aliases** | **Occurrence** |
| VirtualFridge | Store the food items of the user | Fridge | Virtual fridge page – each user has a virtual fridge |
| FoodItem | Describe details regarding an item of food | Food, product, item | In the virtual fridge, in a recipe |
| User | Store login details of the person using the application | Customer | Throughout the application - to use the application a ‘User’ must be defined |
| Profile | Store general details of a user |  | Profile page |
| Recipe | Describe and store recipes | Meal | Recipes page, profile page, virtual fridge page |
| SavedRecipe | Store recipes saved by the user |  | Profile page |
| Comment | Hold comments made by users regarding a recipe |  | Recipes page |

**Relationships data dictionary**

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| --- | --- | --- | --- | --- |
| **Entity name** | **Multiplicity** | **Relationship** | **Multiplicity** | **Entity name** |
| VirtualFridge | 1..\* | Stores | 0..\* | FoodItem |
| User | 1..\* | Has | 1..1 | VirtualFridge |
| User | 1..\* | Has | 1..1 | Profile |
| User | 0..\* | Makes | 0..\* | Comment |
| Recipe | 1..\* | Contains | 1..\* | FoodItem |

**Attributes data dictionary**

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| --- | --- | --- | --- | --- |
| **Entity name** | **Attributes** | **Data type and length** | **Description** | **Nulls** |
| VirtualFridge | **fridgeID (PK)**  *foodID (FK)*  quantity | int  int  int | Uniquely identify a virtual fridge  Id of the food item in the fridge  Quantity of a food item | No  No  No |
| FoodItem | **foodID (PK)**  name  calories  image  isVegan  isVegetarian  isPescatarian | int  varchar(50)  int  //  boolean  boolean  boolean | Uniquely identify a food item  Name of the food  Number of calories of the food  Image of the food  Indicator if the food is suitable for vegans  Indicator if the food is suitable for vegetarians  Indicator if the food is suitable for a pescatarian | No  No  No  Yes  No  No  No |
| User | **username (PK)**  *fridgeID (FK)*  fName  lName  email  isVegan  isVegetarian  isPescatarian | varchar(20)  int  varchar(30)  varchar(30)  varchar(50)  boolean  boolean  boolean | Uniquely identify a user  ID of the users VirtualFridge  Users first name  Users last name  Users email  Indicator if the user is a vegan  Indicator if the user is a vegetarian  Indicator if the user is a pescatarian | No  No  No  No  No  No  No  No |
| Profile | **profileID (PK)**  *username (FK)*  followersCount  publishedRecipesCount | int  varchar(20)  int  int | Uniquely identify a profile  User the profile belongs to  Number of followers the user has  Number of recipes the user has published | No  No  No  No |
| Recipe | **recipeID (PK)**  *username (FK)*  name  image  ingredients  instructions  viewCount  likeCount | Int  varchar(20)  varchar(50)  //  //  //  int  int | Uniquely identify a recipe  User who created the recipe  Name of the meal  Image of the recipe  Ingredients required to make the meal  Instructions on how to make the meal  Number of times the recipe has been viewed  Number of likes the recipe has | No  No  No  Yes  No  No  No  No |
| Comment | **commentID (PK)**  *recipeID (FK)*  *username (FK)*  commentDetails | int  int  varchar(20)  varchar(100) | Uniquely identify a comment  ID of the recipe the comment was made on  Username of the user who made the comment  The actual comment that was made | No  No  No  No |
| SavedRecipes | **recipeID (PK)**  **username (PK)** | int  int | ID of the saved recipe  ID of the user who’s saved the recipe |  |

**Global logical data model**

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| --- |
| **VirtualFridge** (fridgeID, foodID, quantity)  **Primary Key:** fridgeID  **Foreign Key:** foodID **references** FoodItem(foodID) |
| **FoodItem** (foodID,name,calories**,** image**,** isVegan**,** isVegetarian**,** isPescatarian)  **Primary Key:** foodID |
| **User** (username, fridgeID,fName**,** lName**,** email**,** isVegan**,** isVegetarian**,** isPescatarian)  **Primary Key:** username  **Foreign Key:** fridgeID **references** VirtualFridge(fridgeID) |
| **Profile** (profileID, username**,** followersCount**,** publishedRecipesCount)  **Primary Key:** profileID  **Foreign Key:** username **references** User(username) |
| **Recipe** (recipeID,username (FK)**,** name**,** image**,** ingredients**,** instructions**,** viewCount**,** likeCount)  **Primary Key:** recipeID  **Foreign Key:** username **references** User(username) |
| **Comment** (commentID, recipeID, username, commentDetails)  **Primary Key:** commentID  **Foreign Key:** recipeID **references** Recipe (recipeID) |
| **SavedRecipes** (recipeID, username)  **Composite Primary Key:** recipeID, username  **Foreign Key:** recipeID **references** Recipe (recipeID)  **Foreign Key:** username **references** User(username) |

**Physical logical data model**