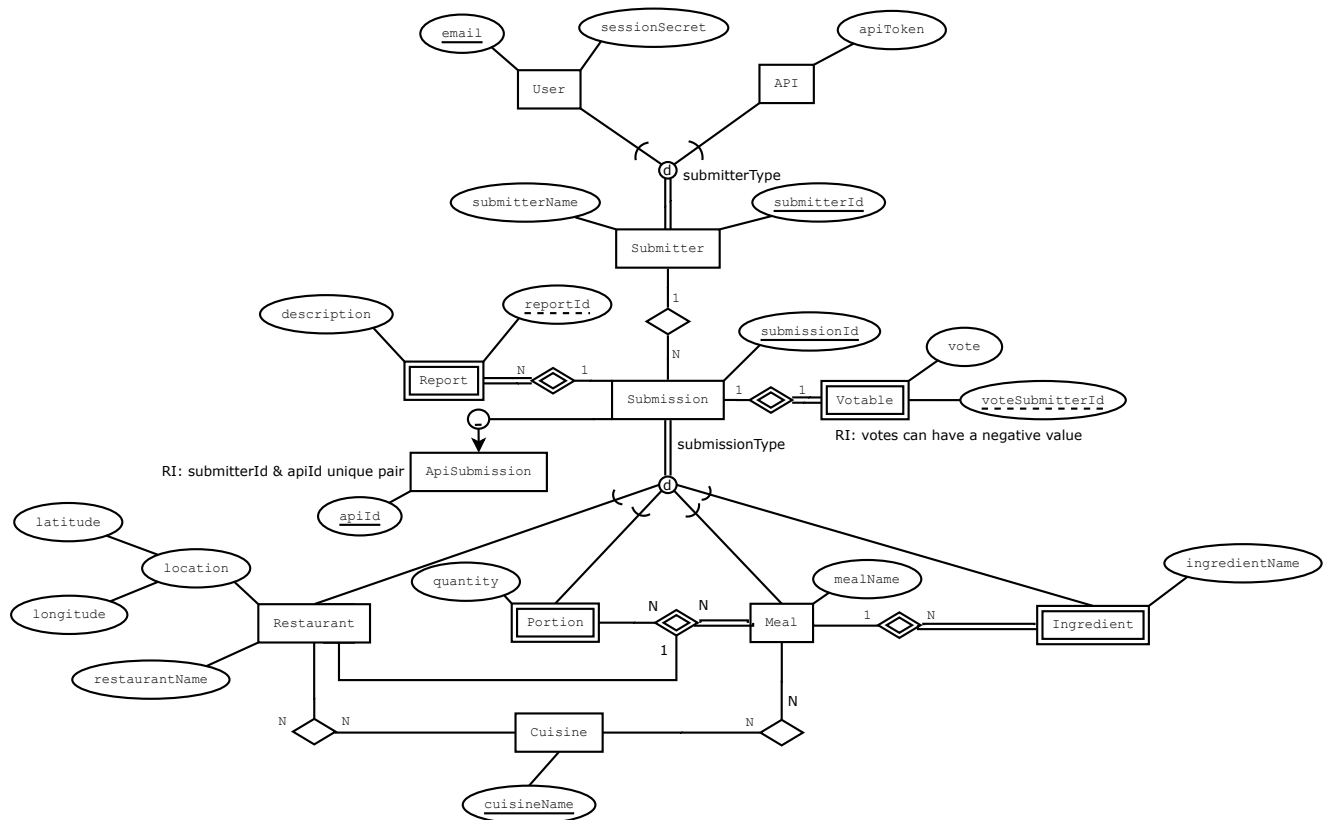# Database's Models

**Nutr.io**

April 8, 2020

## 1 Conceptual Model

# 2   Normalized Relational Model

- **Submitter**

    - Attributes: <u>submitterId</u>, submitterName, submitterType
    - Primary Key(s): <u>submitterId</u>
    - Foreign Key(s): -
    - Not null: submitterName, submitterType

- **User**

    - Attributes: *<u>submitterId</u>*, <u>email</u>, sessionSecret
    - Primary Key(s): *<u>submitterId</u>*, <u>email</u>
    - Foreign Key(s): *<u>submitterId</u>* references Submitter(submitterId)
    - Not null: sessionSecret

- **API**

    - Attributes: *<u>submitterId</u>*, apiToken
    - Primary Key(s): *<u>submitterId</u>*
    - Foreign Key(s): *<u>submitterId</u>* references Submitter(submitterId)
    - Not null: apiToken

- **Submission**

    - Attributes: <u>submissionId</u>, submissionType
    - Primary Key(s): <u>submissionId</u>
    - Not null: submissionType

- **ApiSubmission**

    - Attributes: *<u>submissionId</u>*, <u>apiId</u>, submissionType
    - Primary Key(s): *<u>submissionId</u>*, <u>apiId</u>
    - Foreign Key(s): *<u>submissionId</u>* references Submission(submissionId)
    - Not null: submissionType

- **SubmissionSubmitter**

    - Attributes: *<u>submissionId</u>*, *<u>submitterId</u>*, submissionDate
    - Primary Key(s): *<u>submissionId</u>*, *<u>submitterId</u>*
    - Foreign Key(s):
        * *<u>submissionId</u>* references Submission(submissionId)
        * *<u>submitterId</u>* references Submitter(submitterId)
    - Not null: *submitterId*

- **SubmissionContract**

    - Attributes: <u>submissionId</u>, <u>submissionContract</u>
    - Primary Key(s): <u>submissionId</u>, <u>submissionContract</u>

- **Report**

    - Attributes: *<u>submitterId</u>*, *<u>submissionId</u>*, description
    - Primary Key(s): *<u>submitterId</u>*, *<u>submissionId</u>*
    - Foreign Key(s):
        * *<u>submissionId</u>* references Submission(submissionId)
        * *<u>submitterId</u>* references Submitter(submitterId)

– Not null: description

- **Vote**

  – Attributes: *submissionId*, *voteSubmitterId*, vote

  – Primary Key(s): *voteSubmitterId*, *submissionId*

  – Foreign Key(s):

    * *submissionId* references Submission(submissionId)
    * *voteSubmitterId* references Submitter(submitterId)

  – Not null: vote

- **Restaurant**

  – Attributes: *submissionId*, restaurantName, latitude, longitude

  – Primary Key(s): *submissionId*

  – Foreign Key(s): *submissionId* references Submission(submissionId)

  – Not null: restaurantName

- **Cuisine**

  – Attributes: cuisineName

  – Primary Key(s): cuisineName

- **Meal**

  – Attributes: *submissionId*, mealName

  – Primary Key(s): *submissionId*

  – Foreign Key(s): *submissionId* references Submission(submissionId)

  – Not null: mealName

- **Portion**

  – Attributes: *submissionId*, quantity

  – Primary Key(s): *submissionId*

  – Foreign Key(s): *submissionId* references Submission(submissionId)

  – Not null: quantity

- **Ingredient**

  – Attributes: *submissionId*, ingredientName

  – Primary Key(s): *submissionId*

  – Foreign Key(s): *submissionId* references Submission(submissionId)

  – Not null: ingredientName

- **MealIngredient**

  – Attributes: *mealSubmissionId*, *ingredientSubmissionId*

  – Primary Key(s): *mealSubmissionId*, *ingredientSubmissionId*

  – Foreign Key(s):

    * *mealSubmissionId* references Meal(submissionId)
    * *ingredientSubmissionId* references Ingredient(submissionId)

- **RestaurantMealPortion**

  – Attributes: *mealSubmissionId*, *portionSubmissionId*, *restaurantSubmissionId*

  – Primary Key(s): *mealSubmissionId*, *portionSubmissionId*

  – Foreign Key(s):

      * *mealSubmissionId* references Meal(submissionId)

      * *portionSubmissionId* references Portion(submissionId)

      * *restaurantSubmissionId* references Restaurant(submissionId)

- **RestaurantCuisine**

  - Attributes: *restaurantSubmissionId*, *cuisineName*

  - Primary Key(s): *restaurantSubmissionId*, *cuisineName*

  - Foreign Key(s):

    * *restaurantSubmissionId* references Restaurant(submissionId)

    * *cuisineName* references Cuisine(cuisineName)

- **MealCuisine**

  - Attributes: *mealSubmissionId*, *cuisineName*

  - Primary Key(s): *mealSubmissionId*, *cuisineName*

  - Foreign Key(s):

    * *mealSubmissionId* references Meal(submissionId)

    * *cuisineName* references Cuisine(cuisineName)