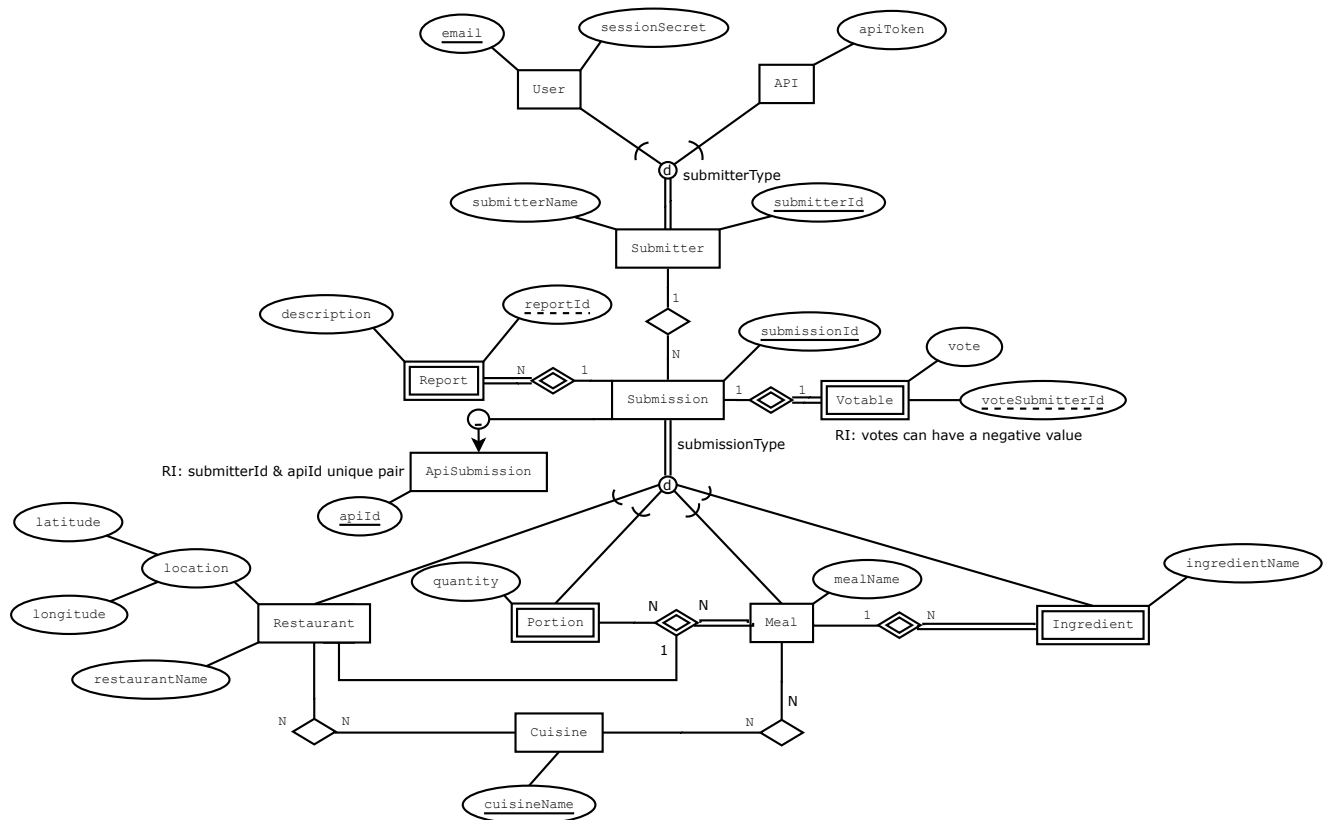# Database's Models

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

- **Report**
    - Attributes: <u>reportSubmissionId</u>, *<u>submissionId</u>*, description
    - Primary Key(s): <u>reportId</u>, *<u>submissionId</u>*
    - Foreign Key(s): *<u>submissionId</u>* references Submission(submissionId)
    - Not null: description

- **Votable**
    - Attributes: <u>voteSubmitterId</u>, *<u>submissionId</u>*, vote
    - Primary Key(s): <u>voteSubmitterId</u>, *<u>submissionId</u>*
    - Foreign Key(s): *<u>submissionId</u>* references Submission(submissionId)

- **Restaurant**

    - Attributes: *submissionId*, restaurantName, latitude, longitude
    - Primary Key(s): *submissionId*
    - Foreign Key(s): *submissionId* references Submission(submissionId)
    - Not null: restaurantName, latitude, longitude

- **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

- **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)