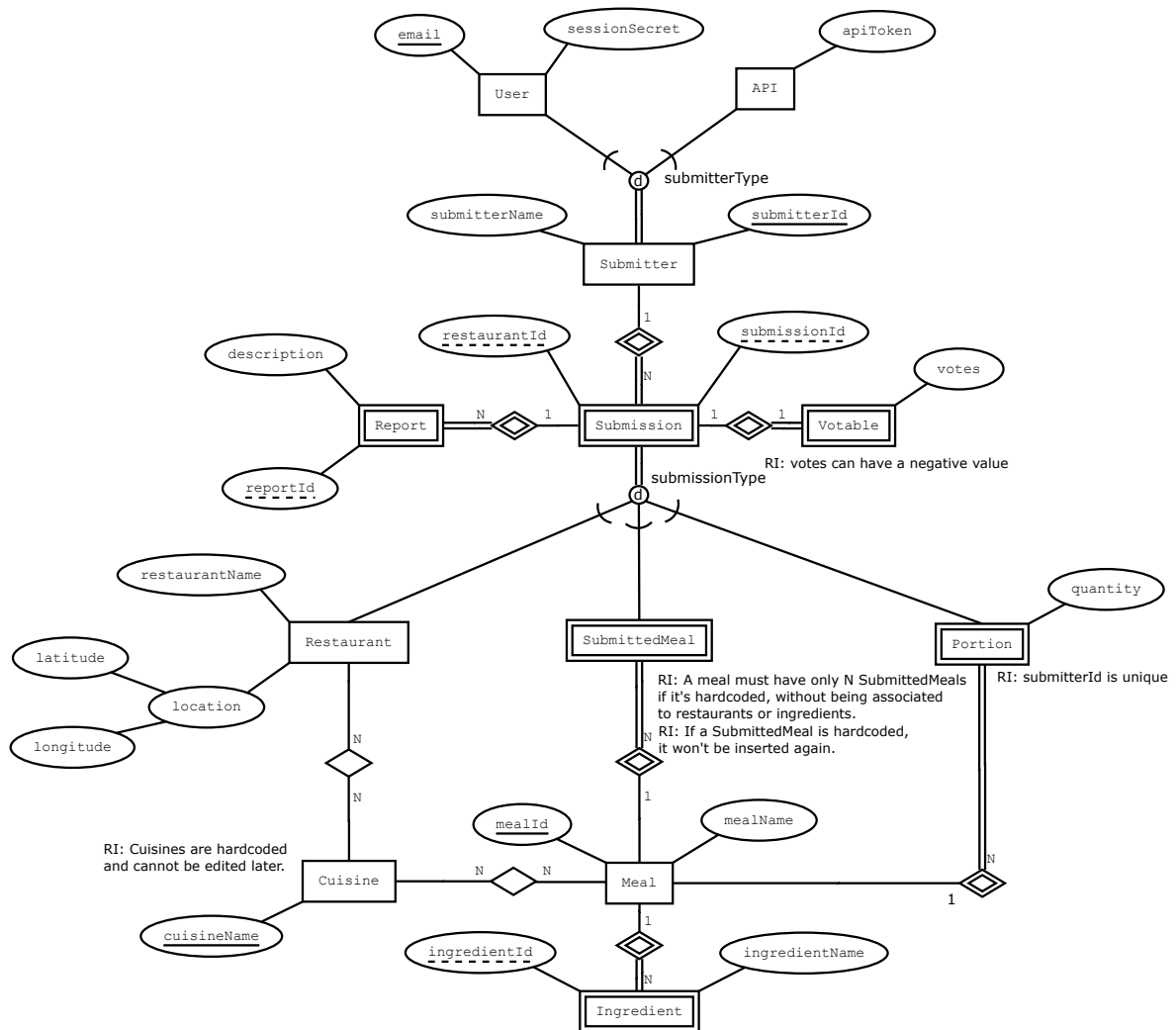


Database's Models

Nutr.io

March 23, 2020

1 Conceptual Model



2 Normalized Relational Model (3NF)

- **Submitter**

- Attributes: submitterId, submitterName, submitterType
- Primary Key(s): submitterId
- Foreign Key(s): -
- Not null: submitterId, submitterName, submitterType

- **User**

- Attributes: submitterId, email, sessionSecret
- Primary Key(s): email, submitterId
- Foreign Key(s): submitterId from Submitter
- Not null: submitterId, email, sessionSecret

- **API**

- Attributes: submitterId, apiToken
- Primary Key(s): submitterId
- Foreign Key(s): submitterId from Submitter
- Not null: submitterId, apiToken

- **Submission-Submitter**

- Attributes: submissionId, submissionType, submitterId
- Primary Key(s): submissionId
- Foreign Key(s): submitterId from User
- Not null: submissionId, submissionType, submitterId

- **Report**

- Attributes: reportId, description, submissionId
- Primary Key(s): reportId
- Foreign Key(s): submissionId from Submission-Submitter
- Not null: reportId, description, submissionId

- **Votable**

- Attributes: submissionId, votes
- Primary Key(s): submissionId
- Foreign Key(s): submissionId from Submission-Submitter
- Not null: submissionId, votes

- **Restaurant**

- Attributes: restaurantId, restaurantName, latitude, longitude
- Primary Key(s): restaurantId
- Foreign Key(s): -
- Not null: restaurantId, restaurantName, latitude, longitude

- **Submission-Restaurant**

- Attributes: submissionId, restaurantId
- Primary Key(s): submissionId
- Foreign Key(s): submissionId from Submission-Submitter, restaurantId from Restaurant
- Not null: submissionId, restaurantId

- **Cuisine**

- Attributes: cuisineName
- Primary Key(s): cuisineName
- Foreign Key(s): -
- Not null: cuisineName

- **Meal**

- Attributes: mealId, mealName, *cuisineName*
- Primary Key(s): mealId
- Foreign Key(s): *cuisineName* from Cuisine
- Not null: mealId, mealName, *cuisineName*

- **Submission-Meal**

- Attributes: submissionId, mealId, *restaurantId*
- Primary Key(s): submissionId
- Foreign Key(s): submissionId from Submission-Submitter, mealId from Meal
- Not null: submissionId, mealId, *restaurantId*

- **Submission-Portion**

- Attributes: submissionId, mealId, quantity
- Primary Key(s): submissionId, mealId
- Foreign Key(s): submissionId from Submission-Submitter, mealId from Submission-Meal
- Not null: submissionId, mealId, quantity

- **Ingredient**

- Attributes: ingredientId, ingredientName
- Primary Key(s): ingredientId
- Foreign Key(s): *mealId* from Meal
- Not null: ingredientId, ingredientName

- **Submission-Ingredient**

- Attributes: submissionId, mealId, *ingredientId*
- Primary Key(s): submissionId
- Foreign Key(s): submissionId from Submission-Submitter, *ingredientId* from Ingredient, *mealId* from Meal
- Not null: submissionId, mealId, *ingredientId*

- **Restaurant-Cuisine**

- Attributes: submissionId, *restaurantId*, cuisineName
- Primary Key(s): submissionId, *restaurantId*, cuisineName
- Foreign Key(s): submissionId from Submission-Submitter, *restaurantId* from Restaurant, cuisineName from Cuisine
- Not null: submissionId, *restaurantId*, cuisineName