# Business Rules for Pages and Paws Cafe

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#### **Group Members**

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#### Event Supergroup

- There are many types of events with the main categories being Book Signing, Book Club, Fundraiser, and Cat Training Classes.
- Events can be multiple types at the same time, such as a Book Signing which is also a fundraiser.
- There can also be other events which are not listed besides the main events, such as birthday parties, meetings, clubs, etc.
- Events cannot last more than one day.
- Two events can't be scheduled for the same day.

## **Employee Manages Event**

- One and only employee manages each event.
- One employee can manage multiple events.
- There are employees who don't manage any events.

## **Employee Supervises Volunteer**

- Every employee supervises at least one, but up to many volunteers.
- Every volunteer is supervised by at least one, but up to many employees.

#### **Employee Cares For Cat**

- Volunteers don't have to care for any cats, but they can care for many cats.
- Every cat must have a volunteer taking care of it and can have many volunteers taking care of it.

#### **Animal Shelter Provides Cat**

- A cat can only come from one shelter.
- The shelter must provide at least one cat to be registered with the cafe, but can provide many.

## Patron Makes Purchase

A patron can make many purchases, or can make no purchases at all.

- Every purchase must be associated with one and only one patron.
- Patrons can be loyalty members with the cafe, which may entitle them to special promotions, gifts, discounts, etc.

#### Purchase Includes Purchase Item

- A purchase must include at least one item, but can include many.
- A purchase item must be part of one purchase and can't be part of many.
- One book copy, individual pastry or drink can't be a part of many purchases, but multiple
  purchases may be for the same type of object (such as multiple purchases including a
  chocolate donut, but not the same single donut).

### Purchase Item Supergroup

- Pastry, drink, and books are the items available for purchase.
- There are no purchase items that overlap.
- Every purchase must include at least one book, pastry, or drink, but can include multiple. The purchase may include only one subtype item, or all, or a combination of the three.
- The cafe only keeps track of one author per book.
- The cafe keeps track of key allergens in a pastry and if it is vegan.
- The cafe keeps track of the target serving temperature of its drinks for training purposes, and if the drink is sugar free.
- A book may have multiple genres, but must have at least one genre.

## Employee Processes Purchase

- A purchase must be processed by an employee.
- No more than one employee can process a single purchase instance.
- There is no limit to how many purchases an employee can process.
- An employee does not have to process any purchases.

#### **Employee Authorizes Adoption**

- One and only one employee authorizes an adoption.
- One employee can authorize many adoptions.
- There are employees who don't authorize any adoptions.

## Adoption Includes Cat

- Every adoption record includes only one cat.
- A cat does not have to be adopted yet.

# Patron Makes Adoption

- A patron does not have to make an adoption, but can make many adoptions if they want.
- Every adoption must include one and only one patron.

# Attributes/Miscellaneous

- The cafe works with shelters within the San Francisco Bay Area and Northern California.
   As a result, all shelter city names, street addresses, and zip codes should be in United States formatting.
- The cafe only stores United States phone numbers for employees and volunteers,
- Due to U.S. tax numbers being SSNs for citizens, that is sensitive data that is stored in physical files by the cafe. The cafe instead likes to keep track of whether an employee has a tax number on file, which can be referenced later by different means.