

The word "salt" is written in a bold, orange sans-serif font. Behind the letters, there are three stylized flames in shades of red and orange, appearing behind the letters 'a' and 'l'.

salt

pre dev doc

Everything you need for your 😊 greedy stomach. ***Beautiful*** app for buying 🛒 ***groceries*** and ***blogging*** 📝 about food-related content.

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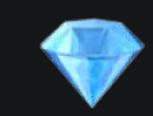
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Abstract

As more and more digitization happens with better and better infrastructure, the shopping nature of humans will become passive. This adoption is happening rapidly and COVID 19 has just accelerated that.

This is where ***shopping groceries*** comes in. The industry is expected to grow 37 folds annually. So there is a need in market where users have wide variety of options to select from, safety of the products and ***ease in payment***. This is where **salt**, this project comes in and tries to provide viable solution.

Overview

The idea is to give users a variety of **options** for buying groceries. User can **easily search** what they want. **Ease in payment**, not just for the current transaction but also for future ones.

The platform for distributing these service will be mobile, **ANDROID** and **IOS**. The back-end will be **REST APIs**. Most of the solutions are intented to be kept on cloud for ease in its distribution

Also the app will be designed in such a way that its **easy to use** and **beautiful**

Entities

-  **DEV**
-  **UI DESIGNER**
-  **CONTENT CREATOR**
-  **ADMIN**
-  **SELLER**

Description

APIS

APIs for ease of having a central logic system i.e. back-end which also will provide an ease of distribution of the business logic across multiple platforms.

FRONTEND

UI which the user will use to consume these services will be a mobile app which will be distributed using Google's Play Store and Apple's App Store which will take around 30% of the app's earnings.

DATABASE

A database for persisting important data. Also it should be in cloud for re-using and modifying the data easily.

STORAGE BUCKET

Storage bucket for storing files.

PAYMENTS

A payment service for allowing users to save their cards for future payment or just directly pay using their card without saving. Also giving features like subscription, pay as per usage, invoices and others.

Limitations

- **SHARING 30% OF APP'S EARNINGS**
- **LARGE APP SIZE**

Advantages

- Secure payment with ease
- Searching content
- Infinite scroll search
- Extendible
- One code base for both Android and IOS apps

Feasibility study

TECHNICAL

Software and design tools used to make this project happen are either Open Source or have generous free tire. Also software being open sourced makes it easy to solve bugs and so.

ECONOMIC

No cost to bear.

OPERATIONAL

UI designing then back-end dev and its testing and then front-end dev.

Tech



Frontend UI for Android
and IOS



Complex animations for
flutter app



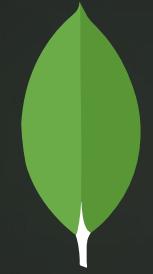
Back-end runtime env and
also used to create dummy
data

Express

Framework used to built
REST apis



TypeScript for type
safety



mongoDB

Database



Elegant mongodb object
modeling for node.js



File storage solution

stripe

Payments solution

Stakeholders

-  **DEV**
-  **UI DESIGNER**
-  **CONTENT CREATOR**
-  **ADMIN**
-  **SELLER**

Event-Response table

USER AUTH

| EVENT | TRIGGER | SOURCE | ACTIVITY | RESPONSE | DESTINATION |
|--------|-----------------|--------|--|---|-------------|
| Signup | Create new user | User | Enter data as per validations and specify role (by default its base) and save user | Depending on signup action status show user message | User |
| Login | Login user | User | Enter email with correct password | Depending on login action status show user message | User |
| Logout | Logout user | User | Simply remove all user's info on the device related to auth state | Show success response to the user | User |

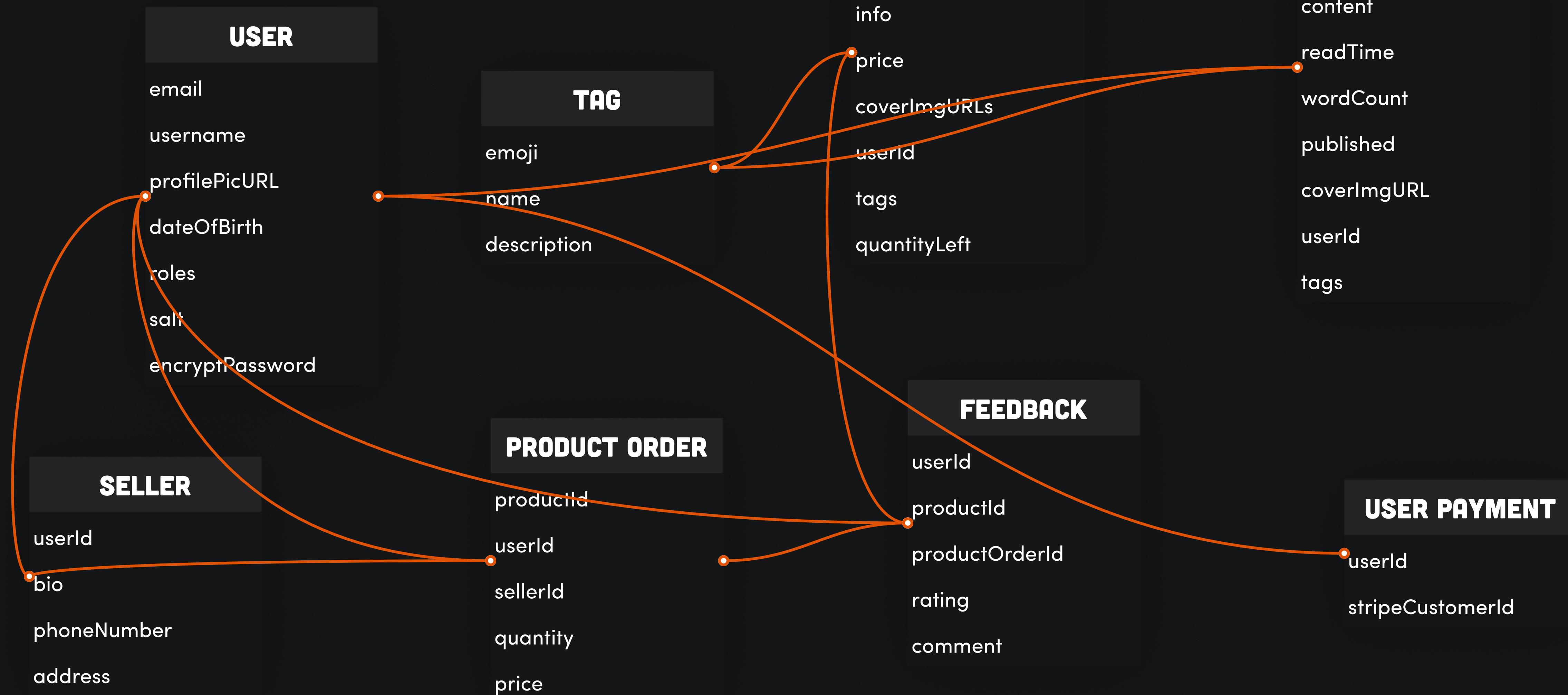
SHOPPING

| EVENT | TRIGGER | SOURCE | ACTIVITY | RESPONSE | DESTINATION |
|---------------------------------|--|--------|---|---|-------------|
| User browsing food products | Adding items to cart | User | Browsing food products | Display results | User |
| Adding items to cart | Adding items to the cart to purchase them in near future | User | Add product with desired quantitiy to the cart | Items added to the cart with specified quantity | User |
| Remove item from cart | Wanting to remove item from cart | User | Remove product from the cart | Items removed from the cart | User |
| Update product quantity in cart | Increase or decrease product quantity | User | In cart, update the quantity as desired | Update item's quantitiy in the cart | User |
| Checkout | Purchasing products in the cart | User | Go to checkout screen, give credit/debit card details and pay | Depending on payment status update cart and notify user | User |

BLOGGING

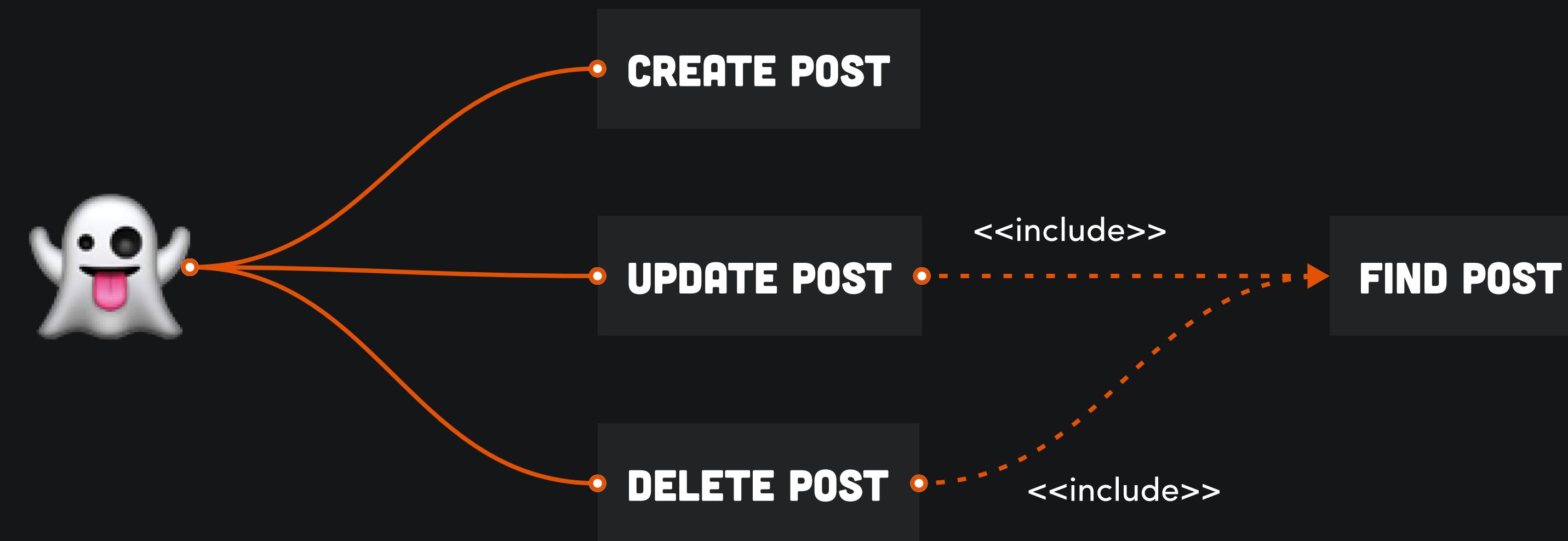
| EVENT | TRIGGER | SOURCE | ACTIVITY | RESPONSE | DESTINATION |
|---------------------|----------------|--------|--|--|-------------|
| Creating post | Post creation | User | Create blog with required data and save it | Depending on validations and save action status show user message | User |
| Updating post | Update post | User | Update fields in the post and then save it | Depending on validations and update action status show user message | User |
| Delete post | Post deletion | User | Delete the post user wants | Depending on deletion action status show user message | User |
| Browsing blog posts | Browsing posts | User | Go to blog post screen and see initial data and to see more data scroll down | Initially show some posts and then load more post as user scrolls down | User |

Class diagrams

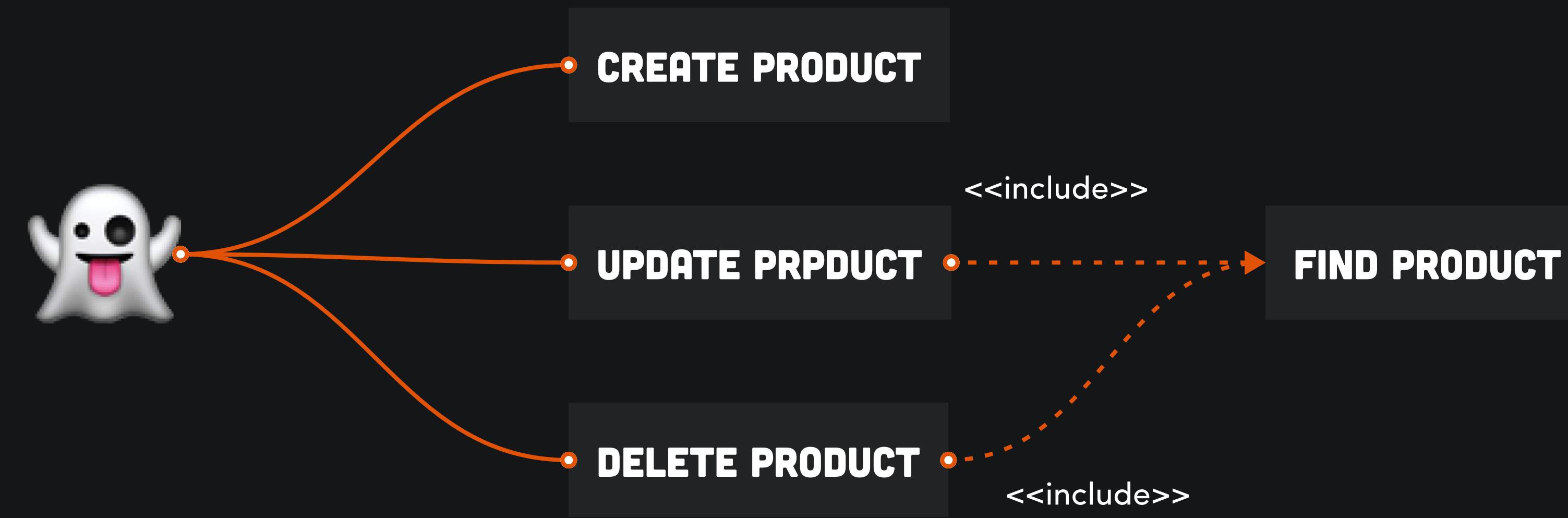


Use case diagram

BLOGGING



PRODUCT

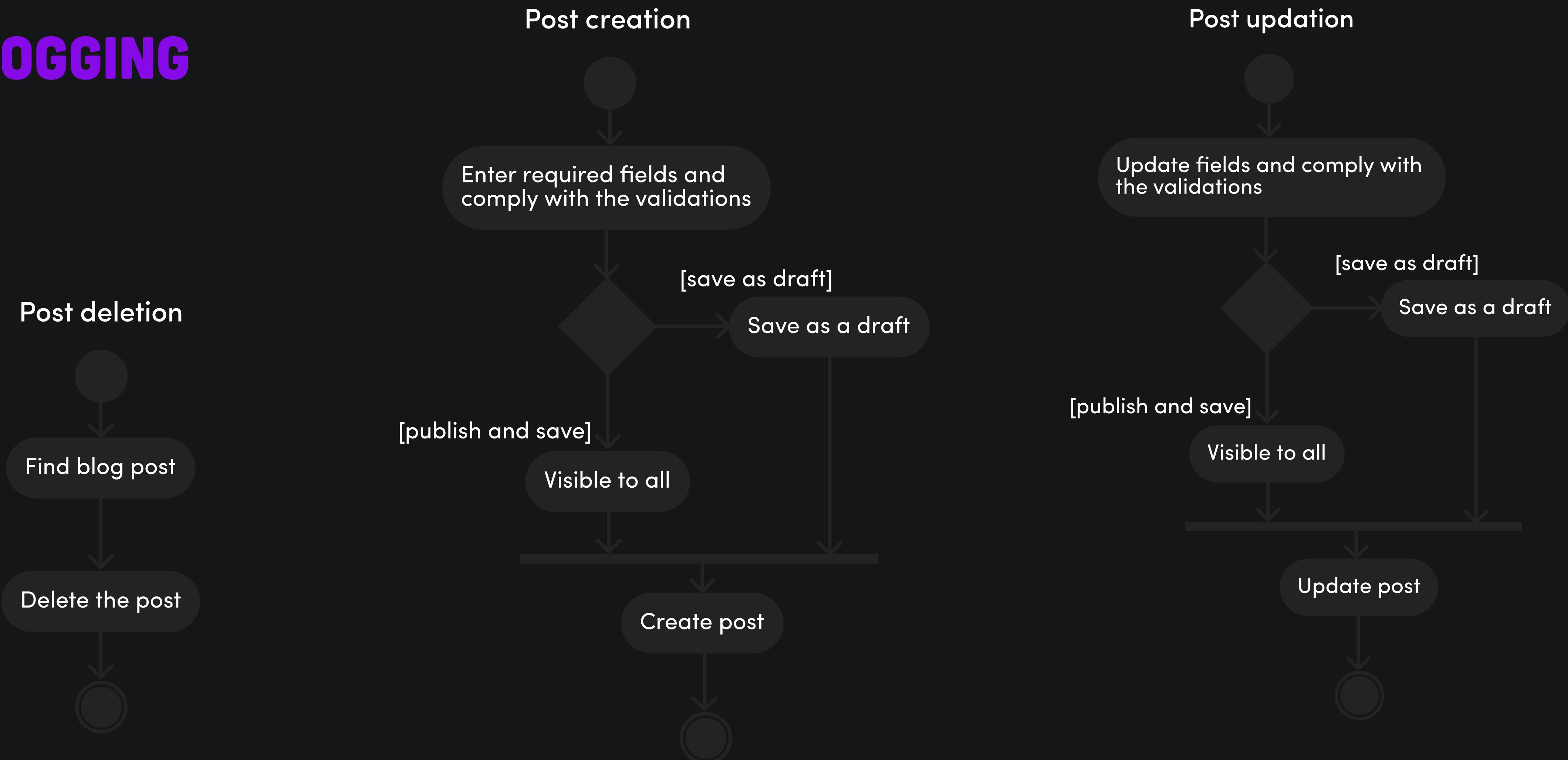


SHOPPING

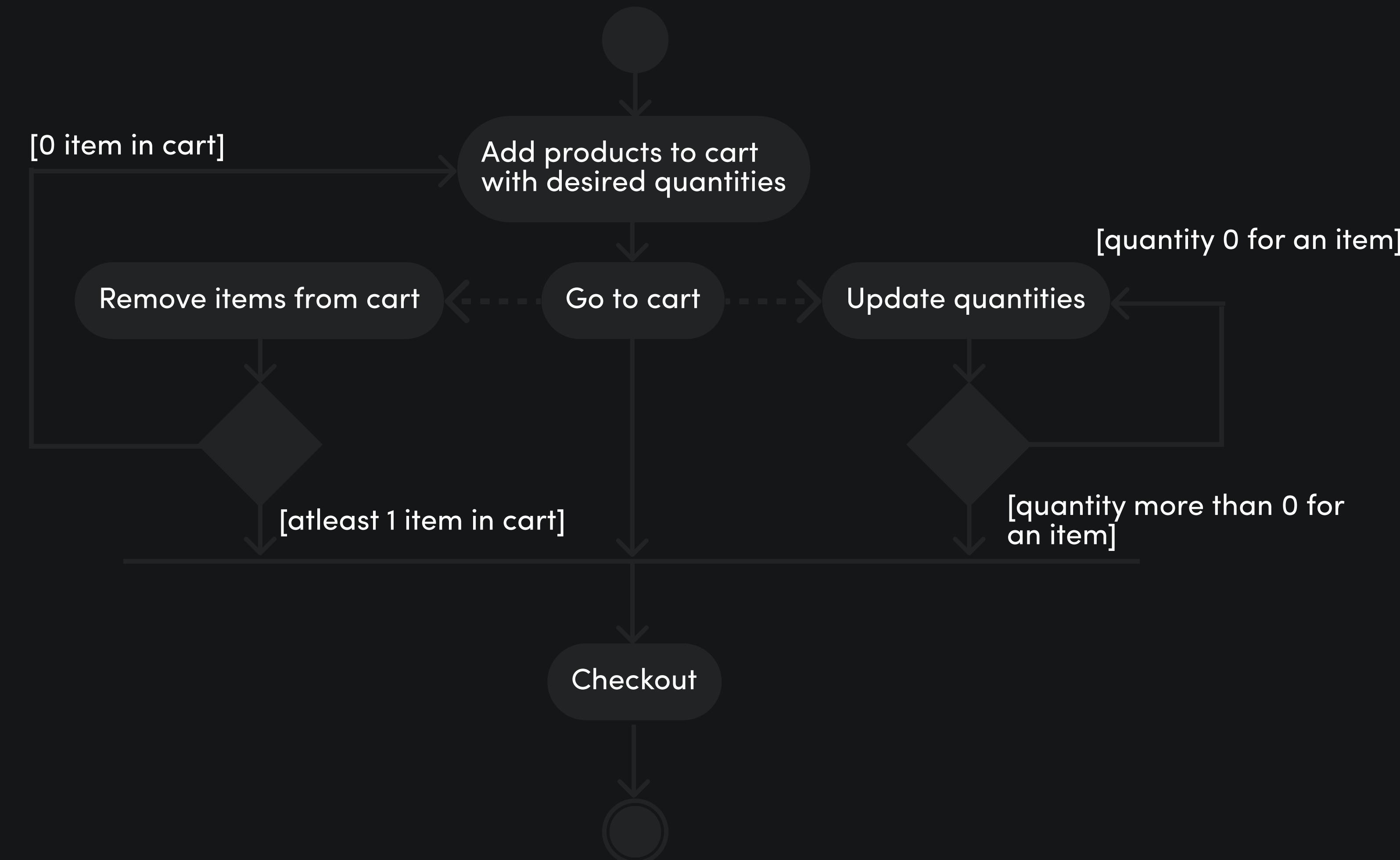


Activity diagram

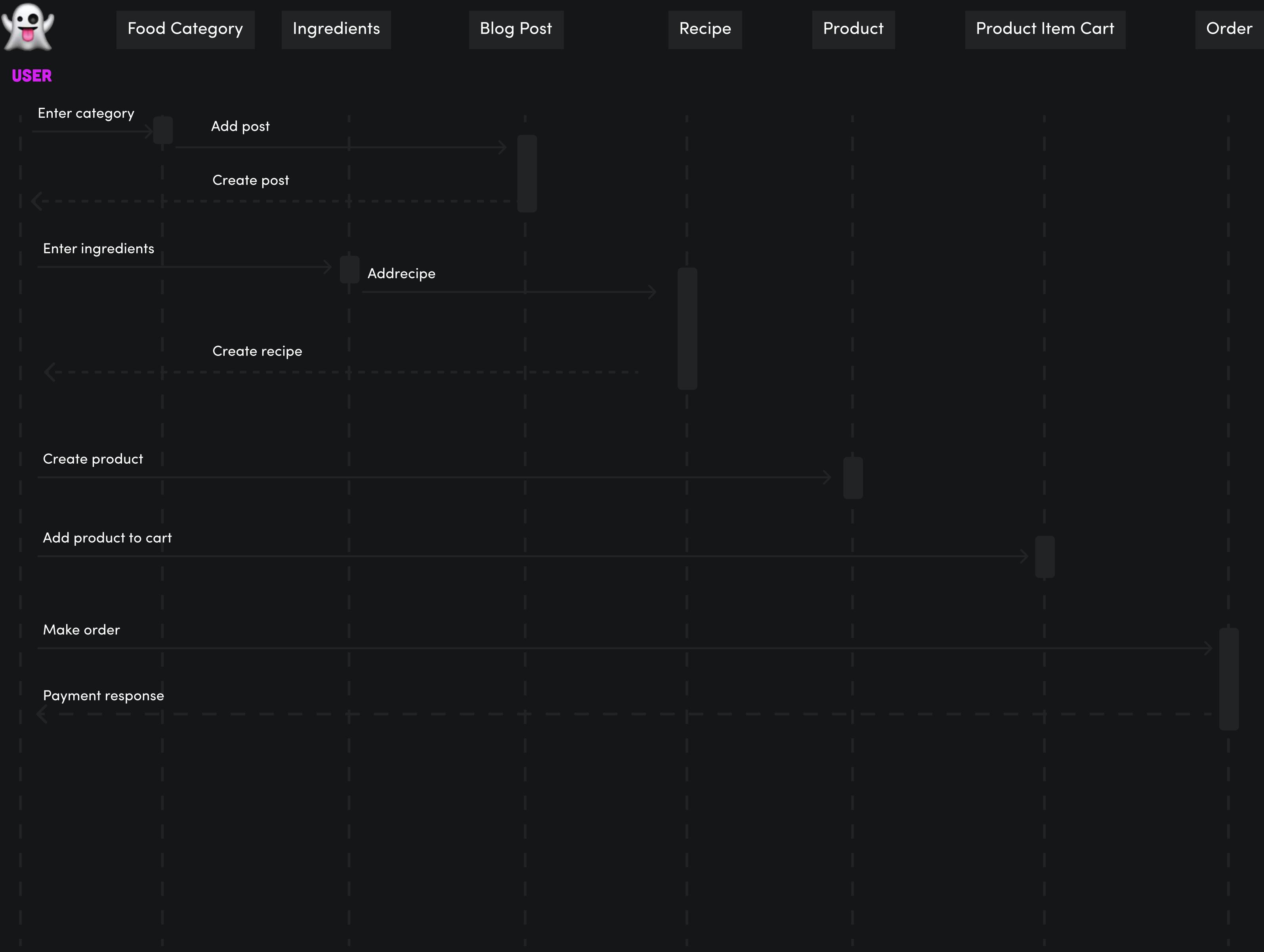
BLOGGING



SHOPPING



Sequence diagram



Fact finding techniques

-  **GOOGLING**
-  **READING DOCUMENTATIONS**

Convert class diagram to tables

USER

| ATTRIBUTES | TYPE | DEFAULT | REQUIRED |
|-----------------|--------|-----------------|----------|
| email | string | null | true |
| username | string | null | true |
| profilePicURL | string | default img url | true |
| dateOfBirth | date | null | true |
| roles | list | ['base'] | true |
| salt | string | null | true |
| encryptPassword | string | null | true |

TAG

| ATTRIBUTES | TYPE | DEFAULT | REQUIRED |
|-------------|--------|---------|----------|
| emoji | string | null | true |
| name | string | null | true |
| description | string | null | true |

SELLER

| ATTRIBUTES | TYPE | DEFAULT | REQUIRED |
|-------------|--------|---------|----------|
| userId | _id | null | true |
| bio | string | null | true |
| phoneNumber | string | null | true |
| address | string | null | true |

USER PAYMENT

| ATTRIBUTES | TYPE | DEFAULT | REQUIRED |
|------------------|--------|---------|----------|
| userId | _id | null | true |
| stripeCustomerId | string | null | false |

FEEDBACK

| ATTRIBUTES | TYPE | DEFAULT | REQUIRED |
|----------------|--------|---------|----------|
| userId | _id | null | true |
| productId | _id | null | true |
| productOrderId | _id | null | true |
| rating | number | null | true |
| comment | string | null | true |

PRODUCT

| ATTRIBUTES | TYPE | DEFAULT | REQUIRED |
|--------------|--------|---------|----------|
| userId | _id | null | true |
| title | string | null | true |
| description | string | null | true |
| info | string | null | true |
| price | number | null | true |
| coverImgURLs | list | null | true |
| quantityLeft | number | null | true |
| tags | list | null | true |

POST

| ATTRIBUTES | TYPE | DEFAULT | REQUIRED |
|-------------|---------|---------|----------|
| userId | _id | null | true |
| title | string | null | true |
| description | string | null | true |
| content | string | null | true |
| wordCount | number | null | true |
| coverImgURL | list | null | true |
| readTime | number | null | true |
| tags | list | null | true |
| published | boolean | false | true |

PRODUCT ORDER

| ATTRIBUTES | TYPE | DEFAULT | REQUIRED |
|------------|--------|---------|----------|
| userId | _id | null | true |
| productId | _id | null | true |
| sellerId | _id | null | true |
| quantity | number | null | true |
| price | number | null | true |