

Fundamentals OF FRONTEND ARCHITECTURE

DOMAIN MODELING



DOMAIN MODELING

- ▶ **Method for discovering Entities and describing their Attributes and Operations**
 - ▶ In data engineering -> database schema
 - ▶ In OOP -> classes, interfaces, and hierarchy
 - ▶ In frontend development -> organize structure and align with UI

BUT WHY?

#1

NAMING THINGS

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| | | | |
|------------|--------------------|--------------------|---------------------|
| Restaurant | RestaurantCategory | RestaurantLocation | getRestaurantInfo() |
|------------|--------------------|--------------------|---------------------|

| | | | |
|--|--------------------|---------------|---------------|
| | RestaurantCategory | StoreLocation | getShopInfo() |
|--|--------------------|---------------|---------------|

#2

ALIGN DATA MODEL TO THE UI

```
{
  "data": {
    "id": 1234,
    "attributes": {
      "name": "Taco Bell",
      "address": "228 E Seventh St",
      "rating": 4.5,
      "ownerId": 3840,
      "zoneId": 88,
    }, {
      "relationships": {
        "categories": {
          "data": [
            { "type": "category", "id": 4 },
            { "type": "category", "id": 12 },
            { "type": "category", "id": 34 }
          ]
        }
      }
    }
  }
}
```



```

{
  "data": {
    "id": 1234,
    "attributes": {
      "name": "Taco Bell",
      "address": "228 E Seventh St",
      "rating": 4.5,
      "ownerId": 3840,
      "zoneId": 88,
    }, {
      "relationships": {
        "categories": {
          "data": [
            { "type": "category", "id": 4 },
            { "type": "category", "id": 12 },
            { "type": "category", "id": 34 }
          ]
        }
      }
    }
  }
}

```

```

const data = {
  "id": 1234,
  "name": "Taco Bell",
  "address": "228 E Seventh St",
  "rating": 4.5,
  "categories": ["Mexican", "Tacos", "Burritos"],
}

```

#3

ESTABLISH RESPONSIBILITY

```
user.addToCart(item)
```

```
item.addToCart(user)
```

```
cart.addItem(item)
```

/api/restaurant.json

JSON

```
{
  "data": {
    "id": 1234,
    "attributes": {
      "name": "Taco Bell",
      "address": "228 E Seventh St",
      "rating": 4.5,
      "ownerId": 3840,
      "zoneId": 88,
    }, {
      "relationships": {
        "categories": {
          "data": [
            { "type": "category", "id": 4 },
            { "type": "category", "id": 12 },
            { "type": "category", "id": 34 }
          ]
        }
      }
    }
  }
}
```

/restaurant.js

JavaScript

```
const data = {
  "id": 1234,
  "name": "Taco Bell",
  "address": "228 E Seventh St",
  "rating": 4.5,
  "categories": ["Mexican", "Tacos", "Burritos"],
}
```