Pizza RIPPERONI

An user-friendly Pizza Delivery service
for both customers and employees

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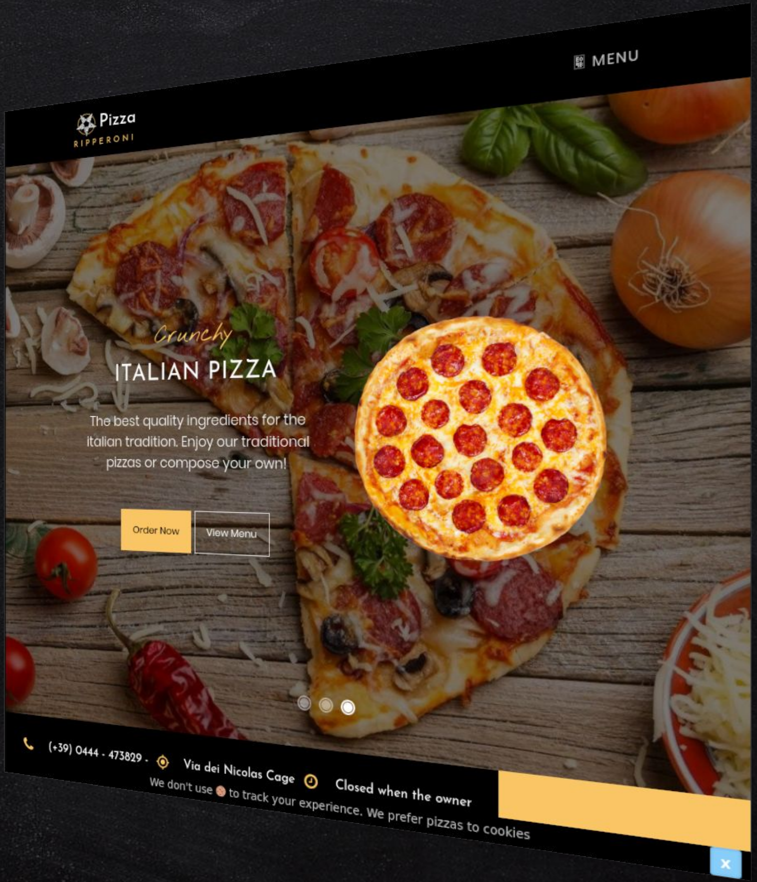
9/6/2020

OBJECTIVES

- User friendly interface
- Fully automated orders with queue management
- Create new pizza, competition between users
- Lightens employee workload
- Optimization of pizza making workflow
- Same rich database used on dbms



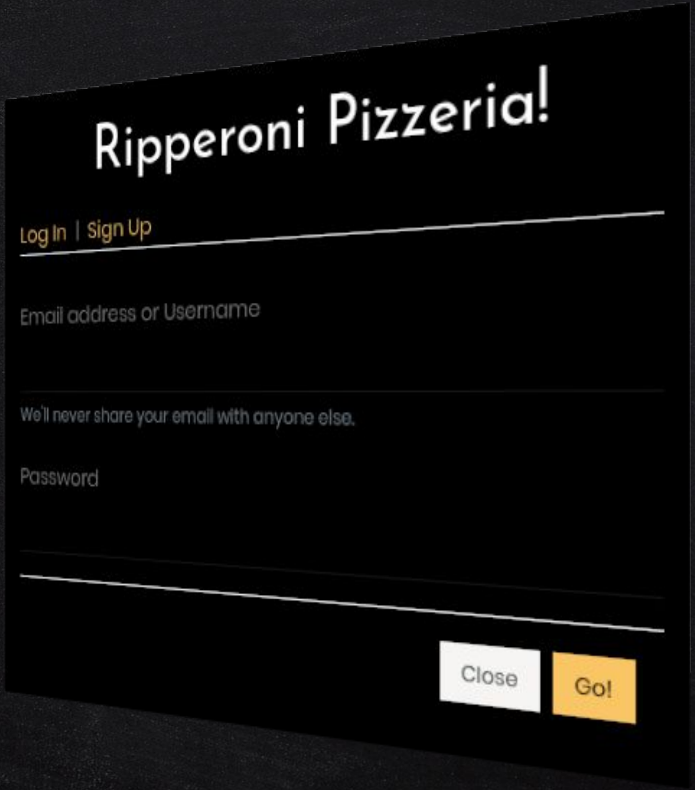
The best quality ingredients for the italian tradition. Enjoy our traditional pizzas or compose your own!

(+39) 0444 - 473829 - Via dei Nicolas Cage Closed when the owner

We don't use ● to track your experience. We prefer pizzas to cookies

LOGIN

- Protected resources
- Check user authentication
- Create session
- Hashed password in the DB



Ripperoni Pizzeria!

Log In | Sign Up

Email address or Username

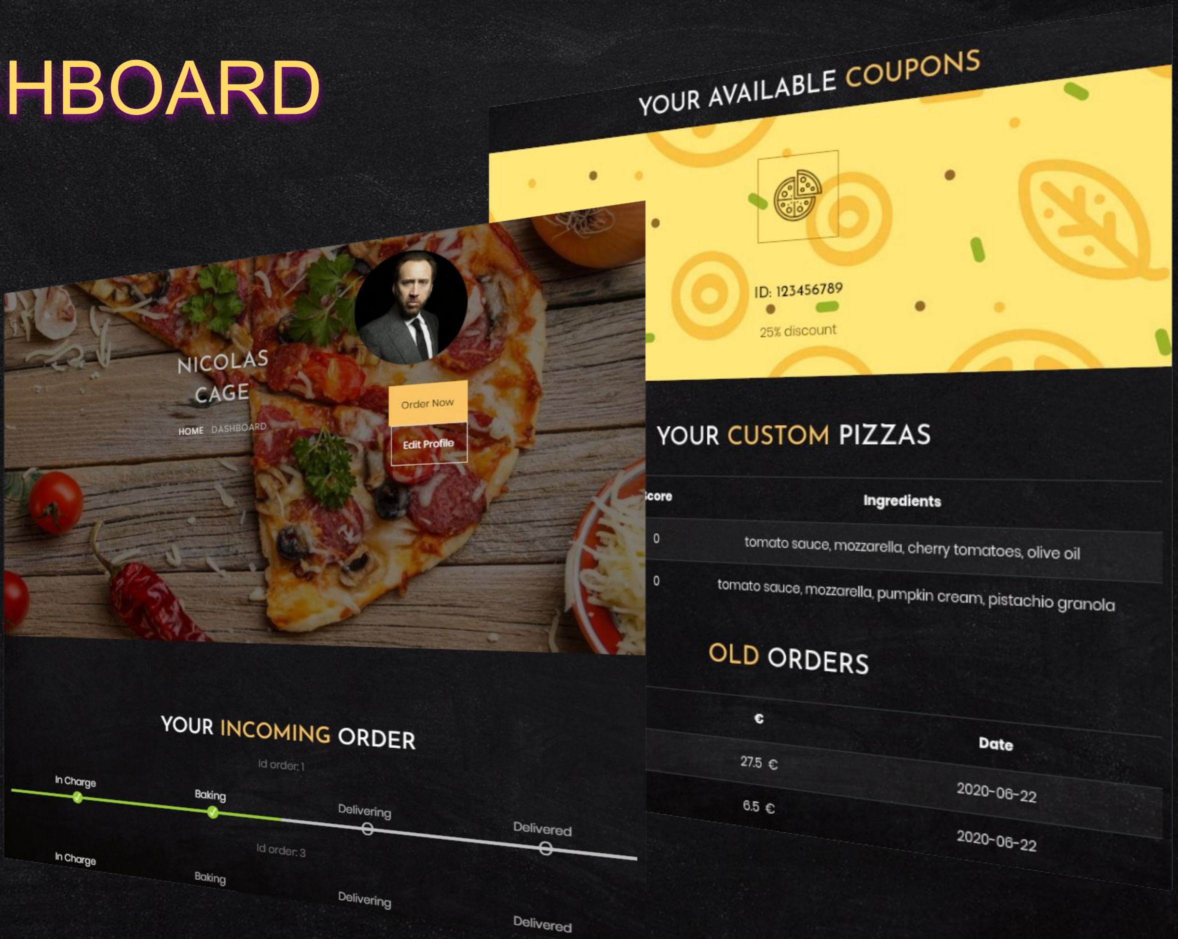
We'll never share your email with anyone else.

Password

CUSTOMER DASHBOARD

Four sections:

- Incoming Order
- Available Coupons
- Custom Pizzas
- Old Orders



YOUR AVAILABLE COUPONS

ID: 123456789

25% discount

YOUR CUSTOM PIZZAS

core	Ingredients
0	tomato sauce, mozzarella, cherry tomatoes, olive oil
0	tomato sauce, mozzarella, pumpkin cream, pistachio granola

OLD ORDERS

€	Date
27.5 €	2020-06-22
6.5 €	2020-06-22

NICOLAS CAGE

HOME DASHBOARD

Order Now

Edit Profile

YOUR INCOMING ORDER

Id order: 1

In Charge Baking Delivering Delivered

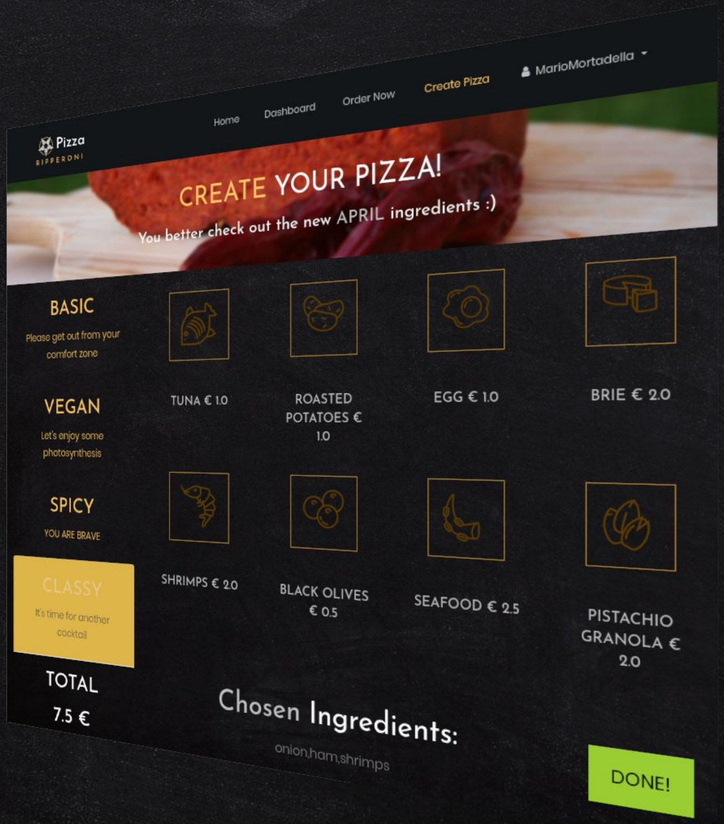
Id order: 3

In Charge Baking Delivering Delivered

CREATE PIZZA

Four sections:

- Search by ingredients types
- Choose ingredients
- Display total cost
- Name the created pizza



CREATE YOUR PIZZA!

You better check out the new APRIL ingredients :)

BASIC

Please get out from your comfort zone

VEGAN

Let's enjoy some photosynthesis

SPICY

YOU ARE BRAVE

CLASSY

It's time for another cocktail

TOTAL

7.5 €

TUNA € 1.0

ROASTED POTATOES € 1.0

EGG € 1.0

BRIE € 2.0

SHRIMPS € 2.0

BLACK OLIVES € 0.5

SEAFOOD € 2.5

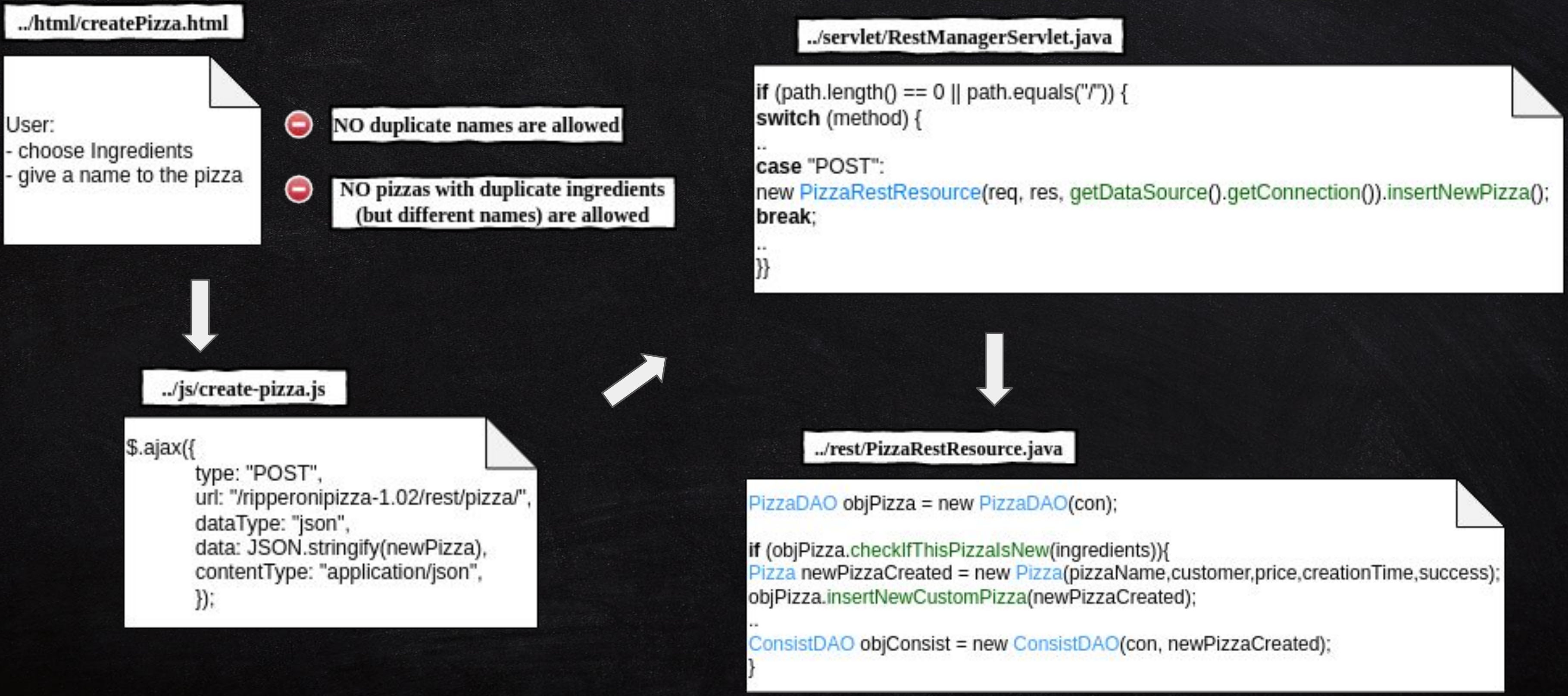
PISTACHIO GRANOLA € 2.0

Chosen Ingredients:

onion,ham,shrimps

CREATE PIZZA

front-back end communication



../html/createPizza.html

User:
- choose Ingredients
- give a name to the pizza

NO duplicate names are allowed

NO pizzas with duplicate ingredients (but different names) are allowed

../js/create-pizza.js

```
$.ajax({
        type: "POST",
        url: "/ripperonipizza-1.02/rest/pizza/",
        dataType: "json",
        data: JSON.stringify(newPizza),
        contentType: "application/json",
        });
```

../servlet/RestManagerServlet.java

```
if (path.length() == 0 || path.equals("/")) {
switch (method) {
..
case "POST":
new PizzaRestResource(req, res, getDataSource().getConnection()).insertNewPizza();
break;
..
}}
```

../rest/PizzaRestResource.java

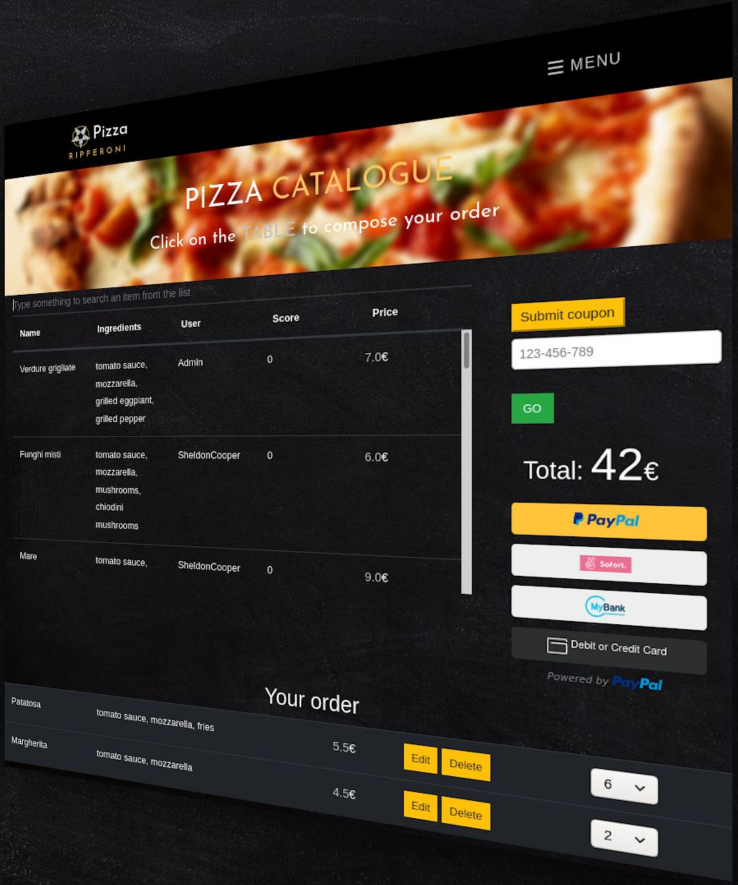
```
PizzaDAO objPizza = new PizzaDAO(con);

if (objPizza.checkIfThisPizzaIsNew(ingredients)){
Pizza newPizzaCreated = new Pizza(pizzaName,customer,price,creationTime,success);
objPizza.insertNewCustomPizza(newPizzaCreated);
..
ConsistDAO objConsist = new ConsistDAO(con, newPizzaCreated);
}
```

ORDER PAGE

Functionalities:

- Select pizza from db, search in the table
- Select quantity of pizzas
- Insert a coupon
- Proceed to ordering



Name	Ingredients	User	Score	Price
Verdure grigliate	tomato sauce, mozzarella, grilled eggplant, grilled pepper	Admin	0	7.0€
Funghi misti	tomato sauce, mozzarella, mushrooms, chiodini mushrooms	SheldonCooper	0	6.0€
Mare	tomato sauce,	SheldonCooper	0	9.0€

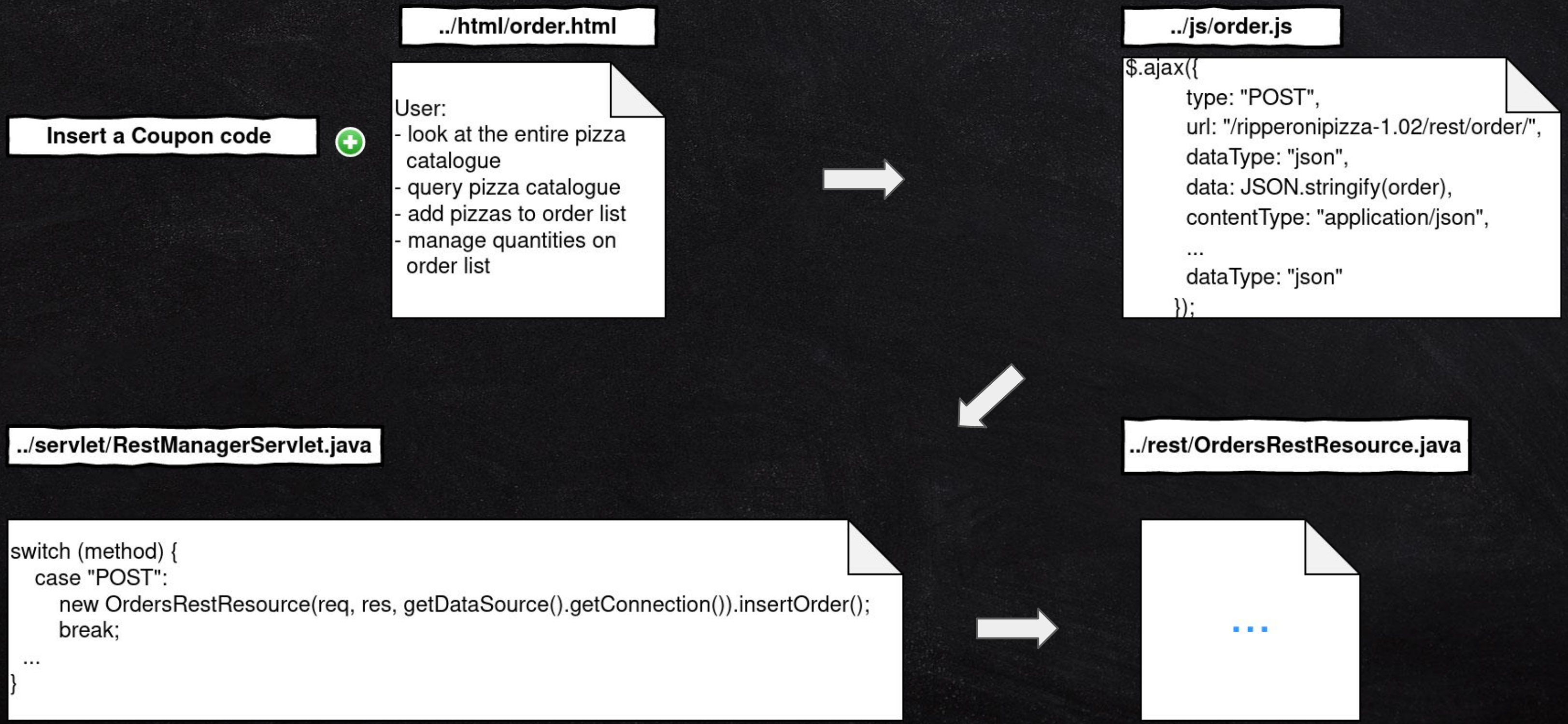
Total: 42€

Your order

Patatosa	tomato sauce, mozzarella, fries	5.5€	Edit Delete	6
Margherita	tomato sauce, mozzarella	4.5€	Edit Delete	2

ORDER

front-back end communication



Insert a Coupon code

../html/order.html

User:
- look at the entire pizza catalogue
- query pizza catalogue
- add pizzas to order list
- manage quantities on order list

../js/order.js

```
$.ajax({
        type: "POST",
        url: "/ripperonipizza-1.02/rest/order/",
        dataType: "json",
        data: JSON.stringify(order),
        contentType: "application/json",
        ...
        dataType: "json"
      });
```

../servlet/RestManagerServlet.java

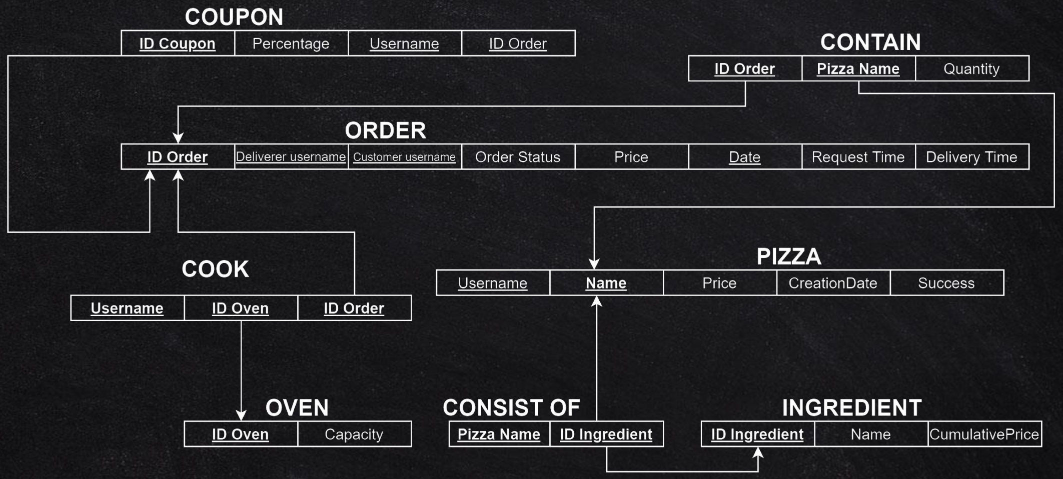
```
switch (method) {
   case "POST":
      new OrdersRestResource(req, res, getDataSource().getConnection()).insertOrder();
      break;
  ...
}
```

../rest/OrdersRestResource.java

...

ORDER JDBC OPERATIONS FLOW (1/2)

1. Insert order row
2. Insert list of pizzas in the Contain table
3. Compute and update the price



COUPON

ID Coupon	Percentage	Username	ID Order

CONTAIN

ID Order	Pizza Name	Quantity

ORDER

ID Order	Deliverer username	Customer username	Order Status	Price	Date	Request Time	Delivery Time

COOK

Username	ID Oven	ID Order

PIZZA

Username	Name	Price	CreationDate	Success

OVEN

ID Oven	Capacity

CONSIST OF

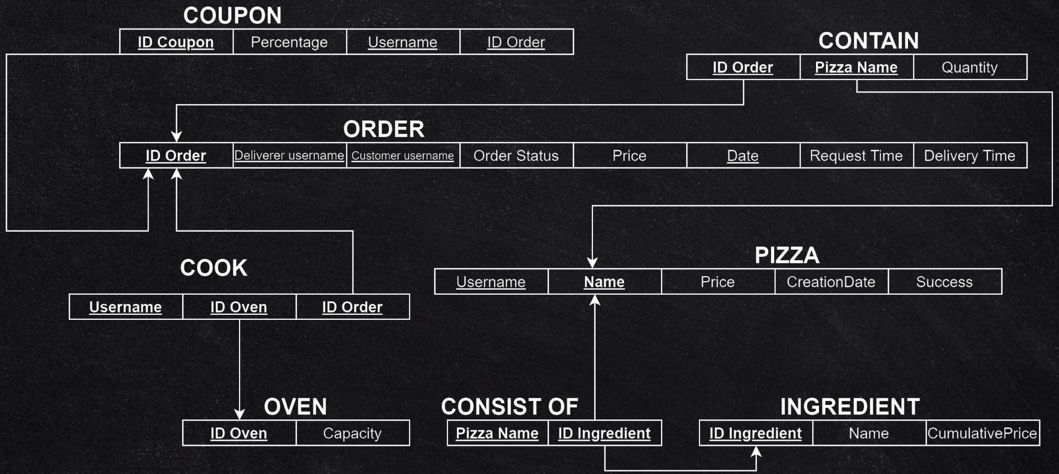
Pizza Name	ID Ingredient

INGREDIENT

ID Ingredient	Name	CumulativePrice

ORDER JDBC OPERATIONS FLOW (2/2)

1. Assign a cook
2. Assign a delivery guy
3. Predict delivery time



COUPON

ID Coupon | Percentage | Username | ID Order

CONTAIN

ID Order | Pizza Name | Quantity

ORDER

ID Order | Deliverer username | Customer username | Order Status | Price | Date | Request Time | Delivery Time

COOK

Username | ID Oven | ID Order

PIZZA

Username | Name | Price | CreationDate | Success

OVEN

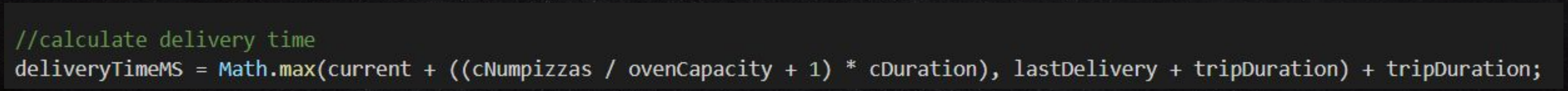
ID Oven | Capacity

CONSIST OF

Pizza Name | ID Ingredient

INGREDIENT

ID Ingredient | Name | CumulativePrice

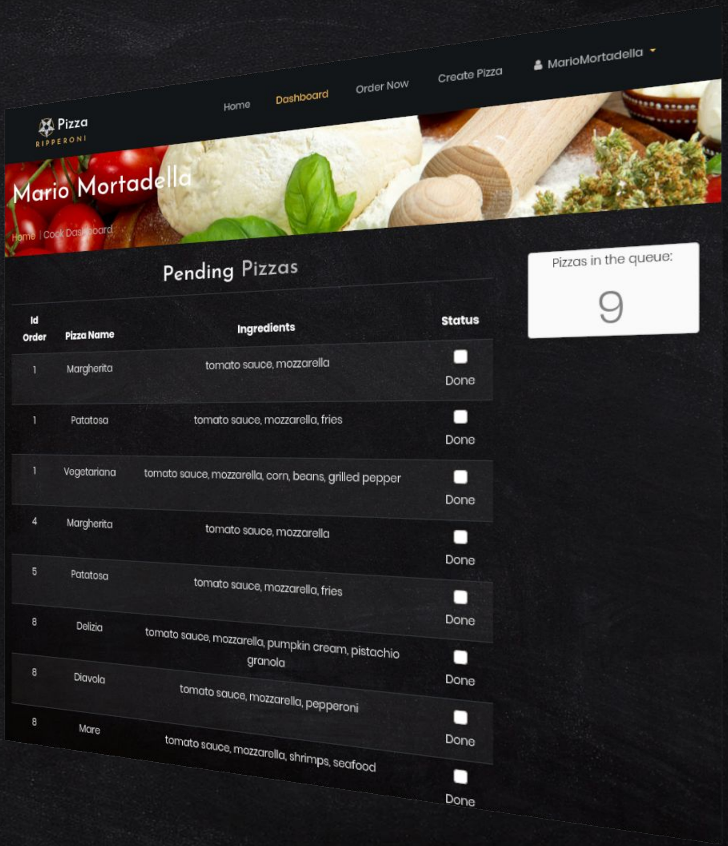


```
//calculate delivery time
deliveryTimeMS = Math.max(current + ((cNumpizzas / ovenCapacity + 1) * cDuration), lastDelivery + tripDuration) + tripDuration;
```

COOK DASHBOARD

Design focused on the necessary information

- Retrieve data from the Cook queue
- Change order status with checkboxes



Pending Pizzas

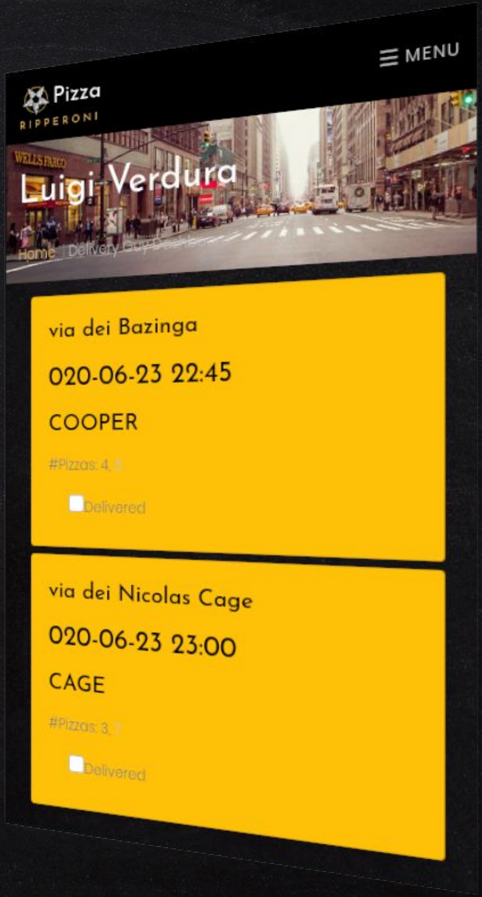
Id Order	Pizza Name	Ingredients	Status
1	Margherita	tomato sauce, mozzarella	□ Done
1	Patatosa	tomato sauce, mozzarella, fries	□ Done
1	Vegetariana	tomato sauce, mozzarella, corn, beans, grilled pepper	□ Done
4	Margherita	tomato sauce, mozzarella	□ Done
5	Patatosa	tomato sauce, mozzarella, fries	□ Done
8	Delizia	tomato sauce, mozzarella, pumpkin cream, pistachio granola	□ Done
8	Diavola	tomato sauce, mozzarella, pepperoni	□ Done
8	Mare	tomato sauce, mozzarella, shrimps, seafood	□ Done

Pizzas in the queue:
9

DELIVERY GUY DASHBOARD

Mobile friendly design

- Retrieve data from the Delivery queue
- Change order status on checkboxes



Luigi Verdura

Home Delivery Guy Dashboard

via dei Bazinga

020-06-23 22:45

COOPER

#Pizzas: 4, 5

□ Delivered

via dei Nicolas Cage

020-06-23 23:00

CAGE

#Pizzas: 3, 7

□ Delivered

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Let’s see a demo!