Conference Lunch Orders

Tianrou Chang / Zheng Gao

1. Project Title

Conference Lunch Orders

2. Name for the Website

EAT24

3 . Project Description

This website is for making a reservation of conference lunch.

We design 2 types of user: normal user and admin user (Making order must be login). For normal user, they can add dishes to cart and put on orders. They can see the order history and edit their personal information. For admin user, they can add new dish and edit dishes. For dishes which stock equal to zero, this dish will be hidden for normal user views.

Furthermore, for detail page, we can search dishes by names and descriptions. Also we achieve dishes class filters for searching result. The searching result show dynamically on page.

All password store in database is encode with MD5 technique.

4. Database Design

We used MongoDB as database. In sum, we create 4 collections: Cart, Menu, Order, User.

1. Cart

Key	Type
_id	ObjectId
username	String
items	Object(nested json)

_id is generated by MongoDB;
Username is user's identify attribute(The username is a unique attribute);
Items is a json structure object, it's nested with dishes which this user added to cart. Besides the basic information with this dish, its quantity also be contained.

{

"_id" : ObjectId("5ad7e747c9885e4adbd4e093"),
"username" : "Jason",
"items" : {
  "5ad0246c8c8d5e3b9afe4fbd" : {
    "_id" : ObjectId("5ad0246c8c8d5e3b9afe4fbd"),
    "name" : "tiramisu",
    "class" : "Desserts",
    "picture" : "../images/tiramisu.jpg",
    "price" : 13,
    "stock" : "6",
    "description" : "Tiramisu is a popular coffee-flavoured Italian dessert. It is made of ladyfingers dipped in coffee, layered with a whipped mixture of eggs, sugar, and mascarpone cheese, flavoured with cocoa.",
    "qty" : 2
    }
  }
}

2. Menu

Key	Value
_id	ObjectId
Name	String
Class	String
Picture	String
Price	Int32
Stock	Int32
description	String

This collection is dishes records.

▲ 🔢 (1) ObjectId("5ad0246c8c8d5e3b...	{ 7 fields }		Object
☐ _id	ObjectId("5ad0246c8c8d5e3b9afe4fbd")		ObjectId
name	Tiramisu		String
class	Desserts		String
picture	../images/tiramisu2.jpg		String
price	5		String
stock	0		String
description	A dessert made of ladyfingers dipped in coffee, l...		String
▷ 🔢 (2) ObjectId("5ad229921e96b547...	{ 7 fields }		Object
▷ 🔢 (3) ObjectId("5ac8d81e846d7ab2...	{ 7 fields }		Object
▷ 🔢 (4) ObjectId("5ad264f5c9885e4ad...	{ 7 fields }		Object
▷ 🔢 (5) ObjectId("5add35883a2938d9...	{ 7 fields }		Object
▷ 🔢 (6) ObjectId("5add3e543a2938d9...	{ 7 fields }		Object
▷ 🔢 (7) ObjectId("5add40673a2938d9...	{ 7 fields }		Object
▷ 🔢 (8) ObjectId("5add416b3a2938d9...	{ 7 fields }		Object
▷ 🔢 (9) ObjectId("5adf44a7b7c566131...	{ 7 fields }		Object

{
  "_id" : ObjectId("5ad0246c8c8d5e3b9afe4fbd"),
  "name" : "tiramisu",
  "class" : "Desserts",
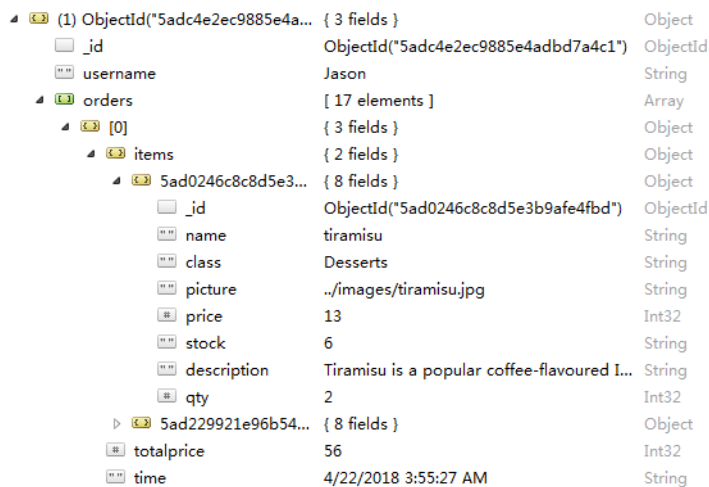 "picture" : "../images/tiramisu.jpg",

```
   "price" : "$13",
   "stock" : "6",
   "description" : "Tiramisu is a popular coffee-flavoured Italian dessert. It is made of ladyfingers dipped
in coffee, layered with a whipped mixture of eggs, sugar, and mascarpone cheese, flavoured with
cocoa."
}
```

3. Order

Key	Value
_id	ObjectId
Username	String
orders	Array

In orders array, each element is a json object containing the basic information of dishes in one order, also store this order's total price and time.

```
▲ ▣ (1) ObjectId("5adc4e2ec9885e4a...  { 3 fields }                              Object
     ☐ _id                              ObjectId("5adc4e2ec9885e4adbd7a4c1")   ObjectId
     "" username                        Jason                                   String
  ▲ ▣ orders                            [ 17 elements ]                         Array
     ▲ ▣ [0]                            { 3 fields }                            Object
        ▲ ▣ items                       { 2 fields }                            Object
           ▲ ▣ 5ad0246c8c8d5e3...       { 8 fields }                            Object
              ☐ _id                     ObjectId("5ad0246c8c8d5e3b9afe4fbd")   ObjectId
              "" name                   tiramisu                                String
              "" class                  Desserts                                String
              "" picture                ../images/tiramisu.jpg                  String
              ⊞ price                   13                                      Int32
              "" stock                  6                                       String
              "" description            Tiramisu is a popular coffee-flavoured I... String
              ⊞ qty                     2                                       Int32
           ▷ ▣ 5ad229921e96b54...       { 8 fields }                            Object
        ⊞ totalprice                    56                                      Int32
        "" time                         4/22/2018 3:55:27 AM                    String
```

```
{
   "_id" : ObjectId("5adc4e2ec9885e4adbd7a4c1"),
   "username" : "Jason",
   "orders" : [
      {
         "items" : {
            "5ad0246c8c8d5e3b9afe4fbd" : {
               "_id" : ObjectId("5ad0246c8c8d5e3b9afe4fbd"),
               "name" : "tiramisu",
               "class" : "Desserts",
               "picture" : "../images/tiramisu.jpg",
               "price" : 13,
               "stock" : "6",
               "description" : "Tiramisu is a popular coffee-flavoured Italian dessert. It is made of
ladyfingers dipped in coffee, layered with a whipped mixture of eggs, sugar, and mascarpone cheese,
flavoured with cocoa.",
               "qty" : 2
            }
```

```
        }
        "totalprice" : 56,
        "time" : "4/22/2018 3:55:27 AM"
      }
  ]
}
```

4. User

Key	Value
_id	ObjectId
Username	String
Password(Hashed)	String
authority	Int32
name	String
phone	String
email	String
avatar	String
address	String

The value of authority can be 0(normal user) or 1(admin user).

▲ 🔳 (1) ObjectId("5ad7bba74b02ae6f...	{ 9 fields }		Object
☐ _id	ObjectId("5ad7bba74b02ae6f97f77f70")		ObjectId
"" username	Jason		String
"" password	e10adc3949ba59abbe56e057f20f883e		String
# authority	0		Int32
"" name	Jason Mraz		String
"" phone	346028590835		String
"" email	4644949@qq.com		String
null avatar	null		Null
null address	null		Null

```
{
  "_id" : ObjectId("5ad7bba74b02ae6f97f77f70"),
  "username" : "Jason",
  "password" : "e10adc3949ba59abbe56e057f20f883e",
  "authority" : 0,
  "name" : "Jason Chang",
  "phone" : "1452342524",
  "email" : "464494933@qq.com",
  "avatar" : ""../images/tiramisu.jpg ",
  "address" : "800 W Campbell Rd, Richardson, TX 75080
"
}
```
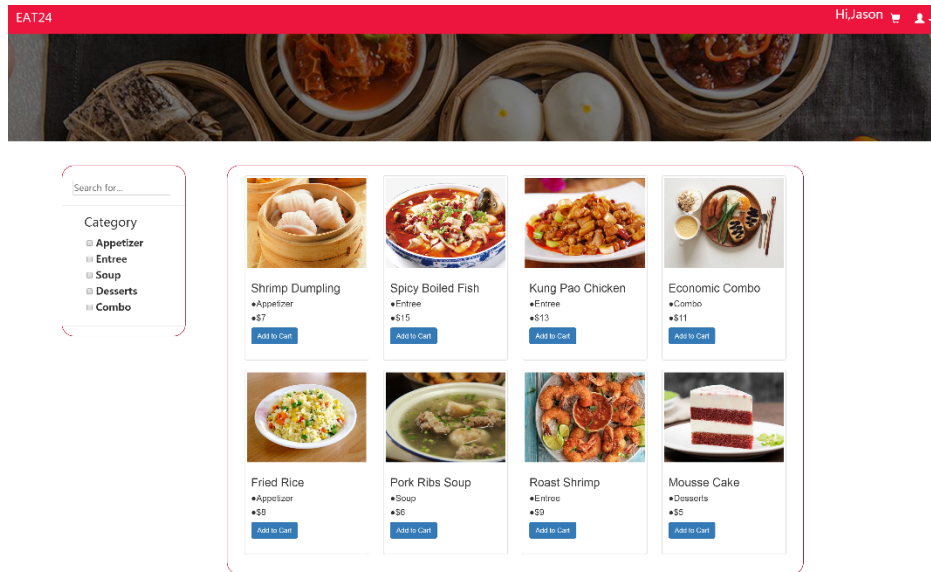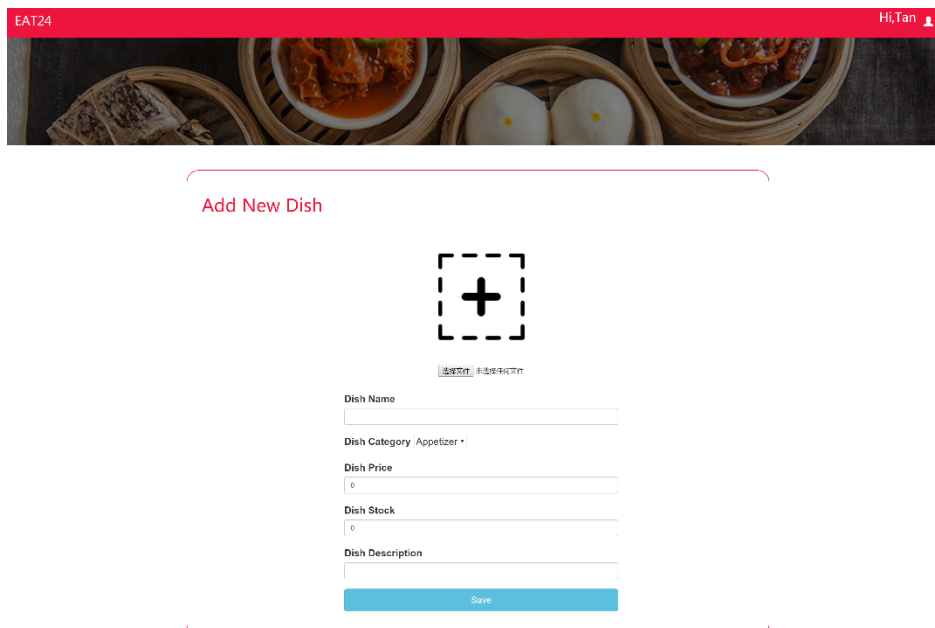
5. Framework

MEAN stack: MongoDB + Express + AngularJS + Node.js

6. Screenshots for main functionalities

1. details page

2. add dishes

3. Cart

4. Order history

EAT24   Hi,Jason

Order History

User Information
Order History
Security
Back to Menu

Dishes	Date	Price
tiramisu X 2 Shrimp Dumpling X 3	4/22/2018 3:55:27 AM	$ 56
Shrimp Dumpling X 4 Fish Filets in Hot Chili Oil X 2 tiramisu X 1	4/22/2018 11:07:01 AM	$ 123
Shrimp Dumpling X 4 Fish Filets in Hot Chili Oil X 1 tiramisu X 1	4/22/2018 11:08:31 AM	$ 88
tiramisu X 2 Kung Pao Chicken X 2	4/22/2018 11:10:17 AM	$ 76
tiramisu X 2	4/22/2018 11:11:40 AM	$ 26
tiramisu X 2 Kung Pao Chicken X 3	4/22/2018 2:20:57 PM	$ 101
Shrimp Dumpling X 3	4/22/2018 2:21:20 PM	$ 30
tiramisu X 3 Fish Filets in Hot Chili Oil X 1 Kung Pao Chicken X 2	4/22/2018 2:21:37 PM	$ 124
Shrimp Dumpling X 3	4/22/2018 2:29:14 PM	$ 30
Fish Filets in Hot Chili Oil X 2 Kung Pao Chicken X 3 Shrimp Dumpling X 1	4/22/2018 2:33:05 PM	$ 155
tiramisu X 3 Shrimp Dumpling X 3 Fish Filets in Hot Chili Oil X 1 Kung Pao Chicken X 2	2018/4/23 上午1:45:50	$ 154
Tiramisu X 3	2018/4/23 下午12:09:27	$ 2697
Roast Shrimp X 3 Tiramisu X 1	2018/4/23 下午3:43:17	$ 44
Fried Rice X 3	2018/4/23 下午3:44:59	$ 27
Shrimp Dumpling X 1 Kung Pao Chicken X 1 Tiramisu X 1 Pork Ribs Soup X 2 Economic Combo X 1 Fried Rice X 1	2018/4/23 下午5:47:19	$ 56
Spicy Boiled Fish X 2 Tiramisu X 2	2018/4/24 上午9:50:14	$ 40
Mousse Cake X 2	2018/4/24 上午9:53:18	$ 10

7. Team Members

Zheng Gao(zxg170430)
Tianrou Chang (txc172430)

8. Work division

Zheng Gao: Database design and implement, Cart and order related functions and admin user's functions.

Tianrou Chang：Front-end design and implement, Searching and filters, add and edit dishes information, user login and signup.