

## CS 546 Database Proposal

### Thrift Store

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### User Collection

The user collection stores info about customers that have signed up to our website, including userName and passWord.

```
{
  "_id" : ObjectId("581437d78534cac4f6f7f152"),
  "userName" : "cx1991427",
  "passWord" : "12345678",
  "profile" : {
    "firstName" : "xiang",
    "lastName" : "cao",
    "email" : "xcao4@stevens.edu",
    "address" : "55 webster ave",
    "phoneNumber" : "5512477785"
  }
}
```

Name	Type	Description
_id	ObjectId	Unique identifier used to represent a user
userName	String	Username input by user when they are signing up
passWord	String	String that represents user's password (plan to encrypt the password)
profile	User Profile	Users' Private info

### User Profile sub-document

This User Profile sub-document is used to represent user's profile.

```
{
  "firstName" : "xiang",
  "lastname" : "cao",
  "email" : "xcao4@stevens.edu",
  "address" : "55 webster ave",
  "phoneNumber" : "5512477785"
}
```

Name	Type	Description
firstName	String	User's first name
lastName	String	User's last name
email	String	Email address
phoneNumber	String	User's Phone number

### Goods Collection

Goods collection stores goods info including price, images, owner, description.

```
{
  "_id" : ObjectId("581437798534cac4f6f7f151"),
  "description" : "EE605 text book",
  "price" : 10,
  "owner" : "cx1991427",
  "images" : "not sure how to store",
  "category" : "books"
}
```

Name	Type	Description
_id	ObjectId	Unique identification of a certain goods
name	String	Name of the item
description	String	A brief description about the goods
price	Double	The price of certain item
owner	ObjectId	Id of the user that uploaded the goods to be sold.
images	Binary using GridFS ( <a href="https://docs.mongodb.com/manual/core/gridfs/">https://docs.mongodb.com/manual/core/gridfs/</a> )	Images of goods uploaded by users
category	String	Which category does certain goods belong to
display	Boolean	Flag to denote if the item is available for sale or not, only two possible values - yes, no

### Vouchers Collection

This collection will store information regarding the vouchers gifted to the customers.

```
{
  "_id" : ObjectId("581437798534cac4f6f7f151"),
  "restaurant" : "Wendys",
  "description" : "You will get $10 off on your next purchase at Wendys",
  "amount" : 10,
  "count" : 6
}
```

Name	Type	Description
_id	ObjectId	Unique identification of an issued voucher
restaurant	String	Name of the restaurant
description	String	A brief description about the voucher
amount	Double	Value worth of the voucher
count	Integer	Total count of the vouchers provided to the customers

### Cart Collection

This collection will store information related to the user's selection of goods, that is the shopping cart.

```
{
  "_id" : ObjectId("581437798534cac4f6f7f151"),
  "User_id" : ObjectId("5814377hdeudb982cac4f6f7f151"),
  "goods_id" :[ObjectId("5nm81358738534cac4f3e1212")]
}
```

Name	Type	Description
_id	ObjectId	Unique identification of a user's cart
user_id	ObjectId	Id of the user to whom the cart belongs to
goods_id	ObjectId Array	Id of the goods present in the user's cart