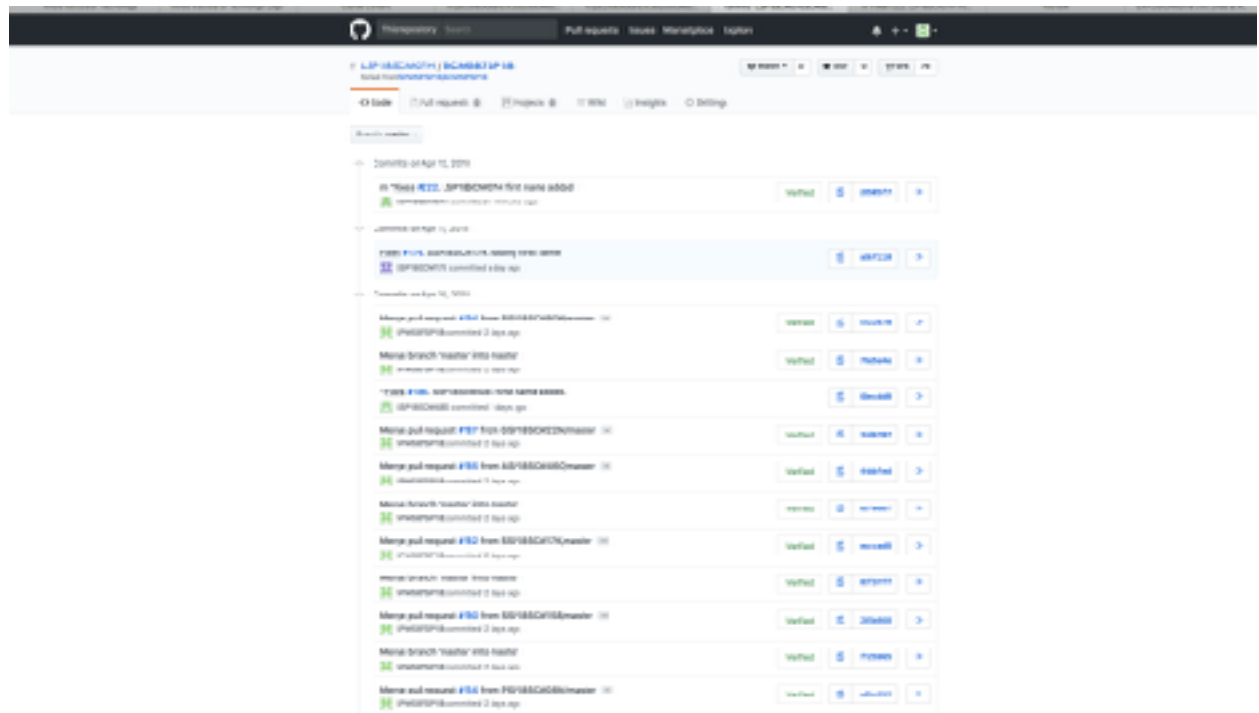A20306907
LiHUANG

Phase-I

State-Transition diagram

STATE	DESCRIPTION
waiting	initial state of the system, waiting for user input
get order from user	system receives order from the user
check out	system validates user and payment information, finalize order
send order request	system finalized order and send the information to warehouse and user
check out disabled	items in cart no longer available, or payment information invalid
maintenance	regular system maintenance and upgrade, temporarily not available to users

STIMULUS	DESCRIPTION
log in	user shall input account and password, then press log-in button,
search	user shall search for product by name, price, item number or
add to shopping cart	user shall add items to shopping cart
edit shopping cart	user shall delete items or update quantity
check out	user shall press check out button to proceed to next page
view shipping status	user shall check shipping status and track package information

UI prototype

log in	Catalog	search item......
register	A B C D	item1	description	price	Add item2	description	price	Add item3	description	price	Add item4	description	price	Add item5	description	price	Add

ShoppingCart

item 1	Add	Delete
item 2	Add	Delete
item 3	Add	Delete

check out

CheckOut

Item 1	Add	Delete
Item 2	Add	Delete
Item 3	Add	Delete

choose address

payment

Payment

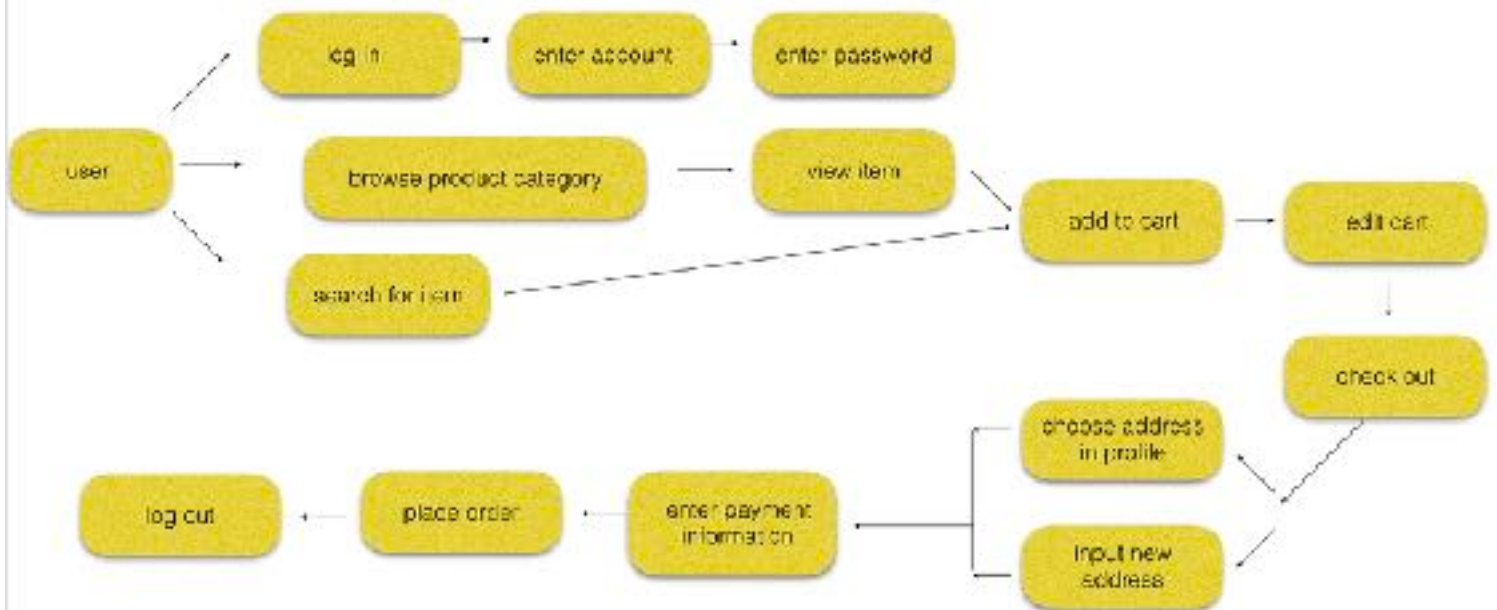| Card number |
|---|
| Expiration Date |
| CVV Code |
| Card holder name |
| Billing address |

Place Order

Pseudo-code to handle exceptions

This is the workflow of my one purchasing process.

Login Method(){
if username and password matches the record database then enter the customer account
else Pop up message("Wrong user name, please try again.")
}

addProduct(**final** String id) {
final Product product = *MODEL*.getProduct(id);
if ((product == **null**) || products.contains(product)) **return**;
products.add(product);
calculate();
orderInProgress();}

deleteProduct(**final** String id) {
final Product product = products.removeById(id);
if (product != **null**) calculate();
orderInProgress();}