

# ShopEasy - Shopping Management System

# Key Functionalities

- ▶ 1. Shopping cart for customers grouped by category and seller
- ▶ 2. Each shopping item will have image, description, name, stock quantity and price
- ▶ 3. Sign Up/ Sign In for customers
  - ▶ • Sign Up (Name, Email, Username, Password, Card Number(Optional))
  - ▶ • Sign In (Username, Password)
  - ▶ • Forget Password feature
  - ▶ • Password to be sent to the User Email Address, Password Recovery
  - ▶ • Password Show / Hide feature
  - ▶ • Username Validation (Check if username already exists in the DB, should be unique)

- ▶ 4. Product Information
- ▶ 5. Adding to Cart feature with quantity input from customer
- ▶ 6. Validation for Quantity input (display message if quantity input > stock quantity)
- ▶ 7. Cart View should have a table with these columns
  - ▶ • Product Name
  - ▶ • Model
  - ▶ • Price
  - ▶ • Quantity
- ▶ Total Bill in the cart and a Buy feature.
- ▶ 8. Search feature for the customers to search for products
- ▶ 9. On Buy from Cart View, Enter delivery address modal window
- ▶ 10. Account Information of a user
- ▶ 11. Sign Out Feature
- ▶ The application will be based on Spring MVC architecture and Hibernate.

- ▶ **Front End:** React JS based Views for the store.
- ▶ **Middle Tier:** Spring MVC Java Controller using annotations and Hibernate , Relational Mappings, Interceptors for logging purposes, Email confirmation for user
- ▶ **Data Tier:** Relational Database - MSSQL

Shop  
Easy

Search products 🔍

Welcome Harish  
Sivaprakash  
226 Parker Hill Avenue  
North Carolina

Logout

Orders

State tax : 6%  
No. of items : 2  
Sub Total : 3300  
Tax : 198  
Delivery : 66



Electronics

Laptop

Mobiles



FinePix Pro2 3D  
Camera

\$ 1500

Available quantity: 100

− 1 +



EXP Portable Hard  
Drive

\$ 800

Available quantity: 47

− 3 +



Luxury Ultra thin Wrist  
Watch

\$ 300

Available quantity: 64

− 3 +



FinePix Pro2 3Fire TV  
Stick 4K

\$ 50

Available quantity: 43

− 1 +

arish

1

Hill Avenue  
lina



tra thin Wrist  
atch

**300**

antity: 64

3



TO CART

Logout

Orders

State tax : 6%  
No. of items : 2



EXP Portable Hard Drive

3 Nos.

**\$ 800**

**\$ 2400**



Luxury Ultra thin Wrist  
Watch

3 Nos.

**\$ 300**

**\$**

**900**



PROCEED TO CHECKOUT

Shop  
Easy



FinePix Pro2 3D  
Camera

\$ 1500

Available quantity: 100

− 1 +

ADD TO CART

## Checkout



FIRSTNAME Harish  
LASTNAME Sivaprakash  
HOMEADDRESS226 Parker Hill Avenue  
EMAIL sivaprakash.h@husky.neu.edu  
STATE North Carolina  
State Tax 6  
Sub Amount3300  
Total Items 2  
Tax 198  
Delivery 66  
Grand Total 3564  
Credit Card

Close

Checkout

out

Orders



EXP Portable

\$ 800



Luxury Ultra t  
Watch

\$ 300

PROCEED

Orders

orderid	customerid	placeDate	totalPrice	creditcard	View Cart
3010	1025	2020-04-19 14:52:37.0	864	1788	<div>View Cart</div>
3012	1025	2020-04-19 16:54:59.0	1728	19876	<div>View Cart</div>

Cart Items

cartitemid	customerid	quantity	code	orderid
3033	1025	1	LPN4556	3010

Close

Cart Items

×

cartitemid	customerid	quantity	code	orderid
3033	1025	1	LPN4556	3010

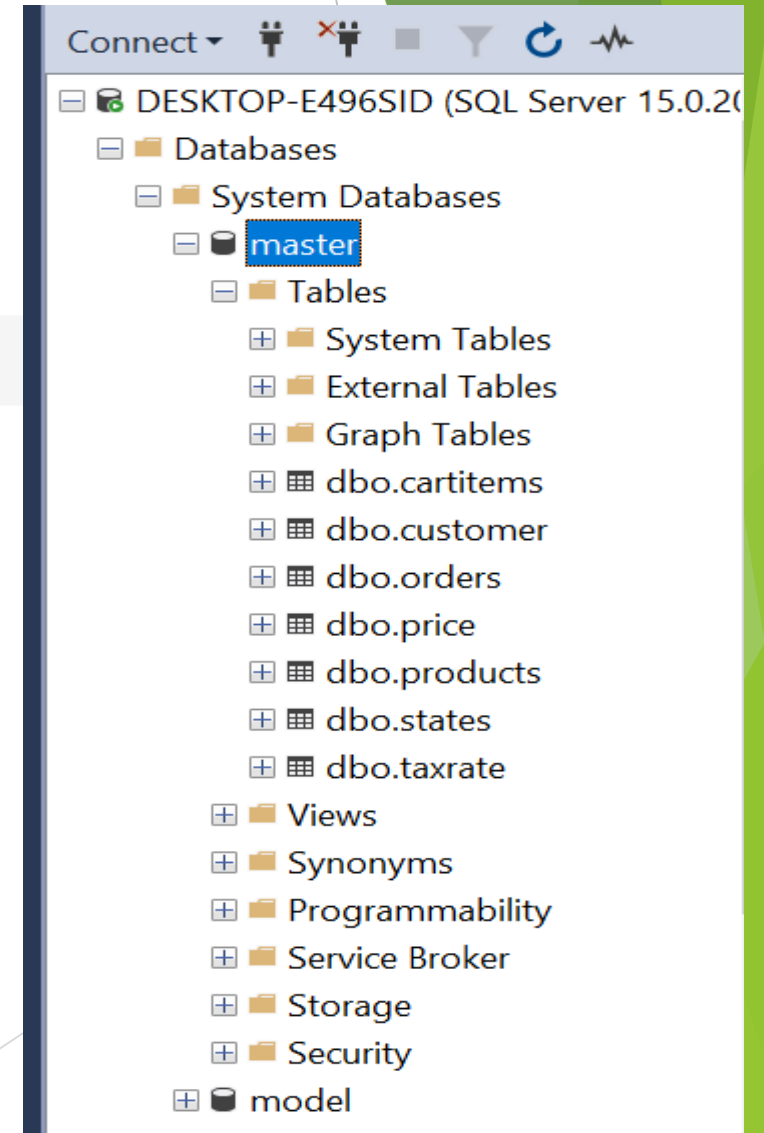
Close



# Backend APIs/Database

ShoppingCart 17 requests	
POST	Register customer
POST	Login customer
GET	List all products
GET	Get State and Abbreviation
POST	Add to cart
PUT	Update cart quantity
DEL	Delete cart item
GET	Get Cart Items
GET	Add product
PUT	Update Product
DEL	Delete product
POST	Place order
-	

POST	Place order
GET	Get orders
GET	Confirm Email
GET	Get Customer by id
GET	Get State tax
GET	Get Order Cart Items



Thank You!