

1. Dependency

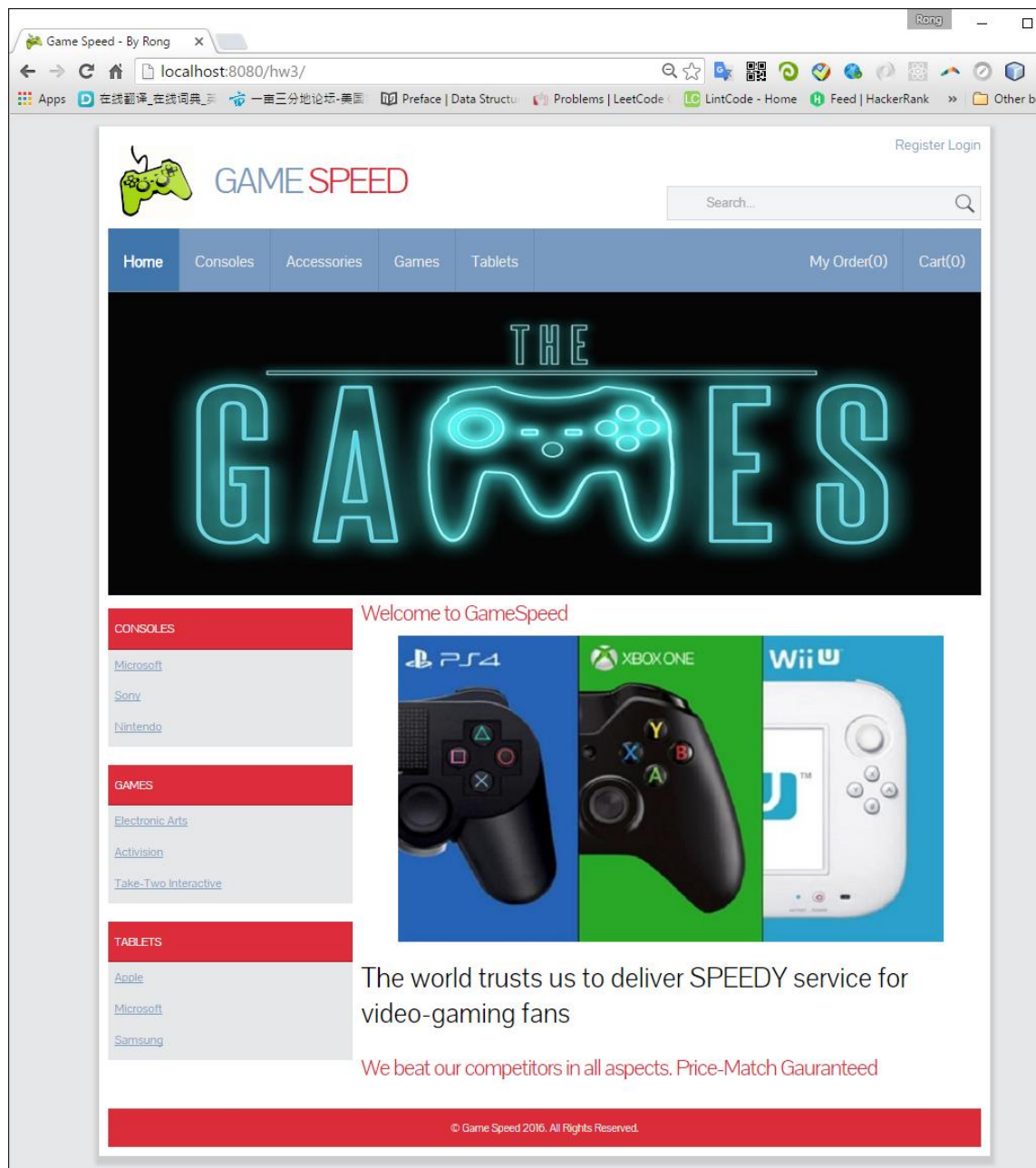
1.1 gson-2.3.1.jar

This library is used to convert json format data. It is used when implementing the auto complete function for search.

- 1) Put it into 'lib' folder of apache server. For example, " C:\apache-tomcat-8.5.0\lib".
- 2) Add "C:\apache-tomcat-8.5.0\lib\gson-2.3.1.jar" to environment variable 'CLASSPATH'.

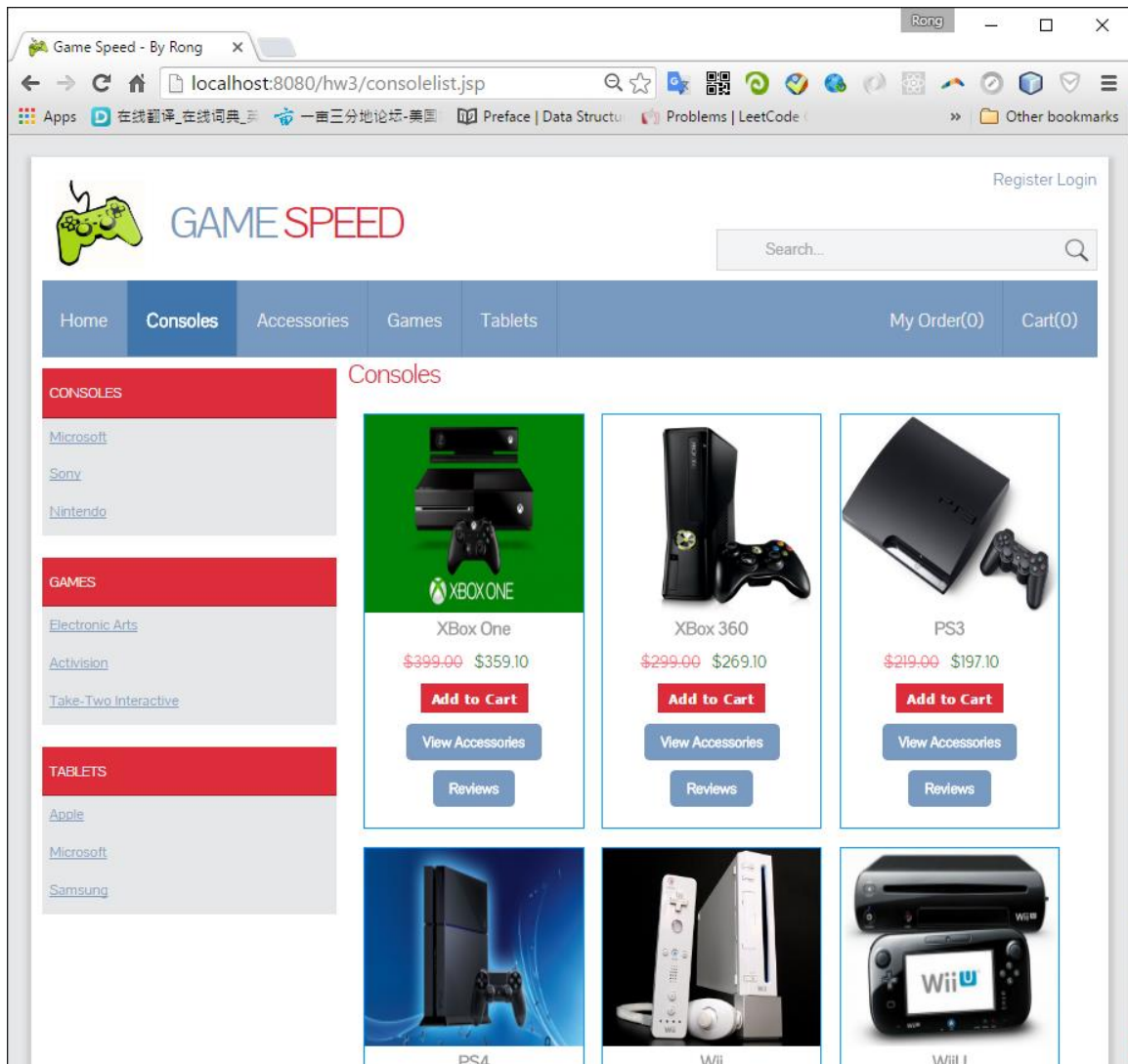
2. Pages

2.1 Home Page



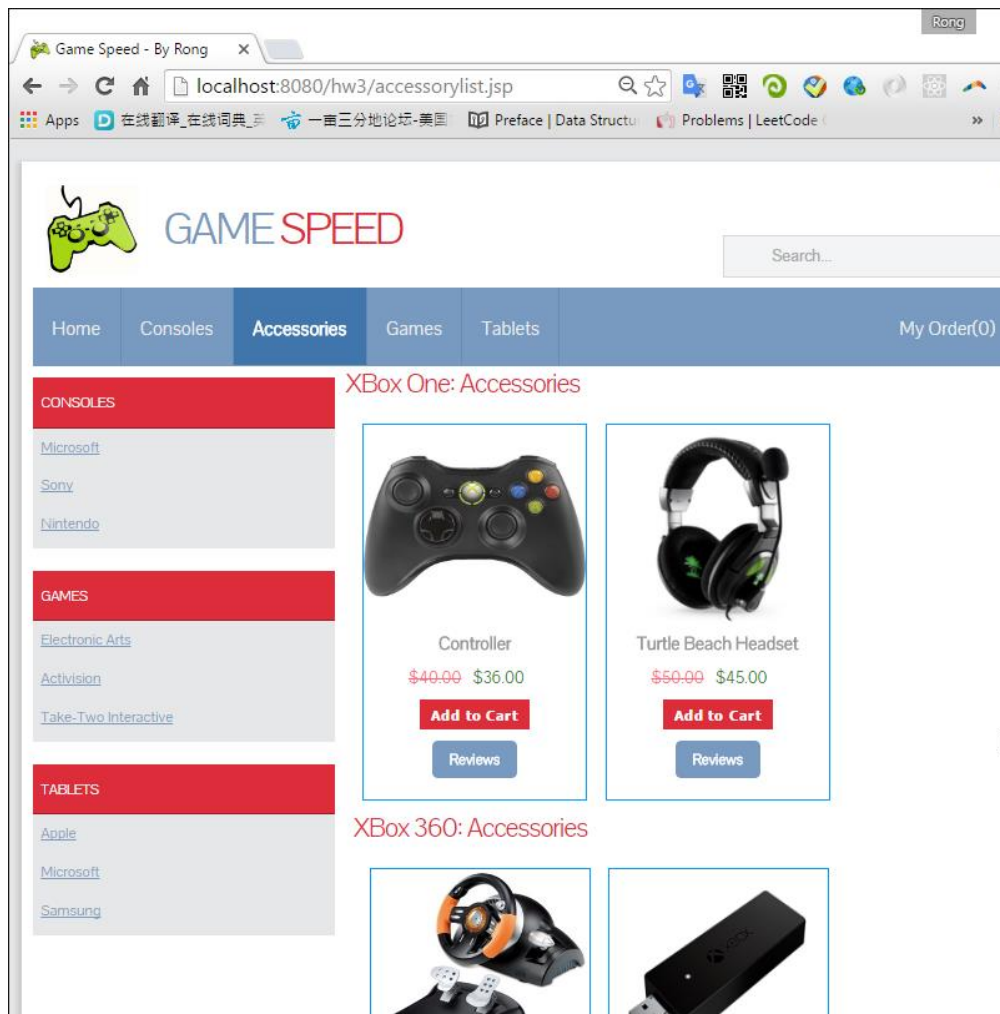
2.2 Consoles

- 1) When visit this page through the top menu, all consoles will be displayed.
- 2) When visit through the side bar, only the consoles of that brand will be displayed.



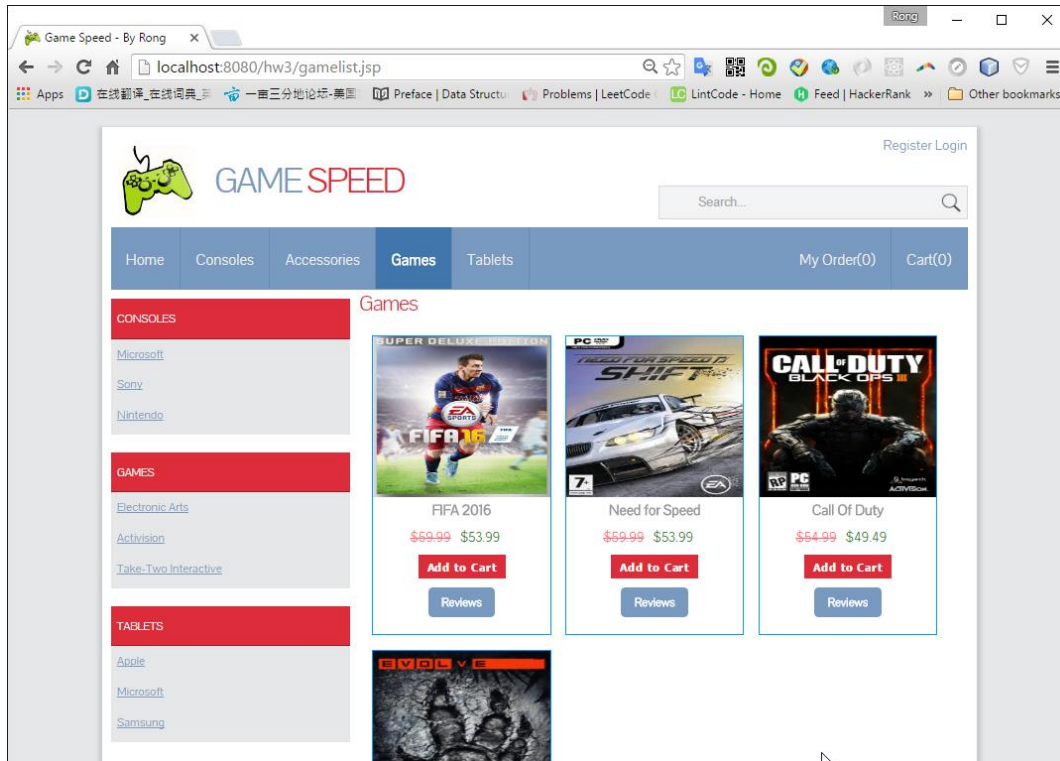
Accessories

- 1) When visit this page through the top menu, all accessories will be displayed.
- 2) When visit through the side bar, only the accessories with that console will be displayed.



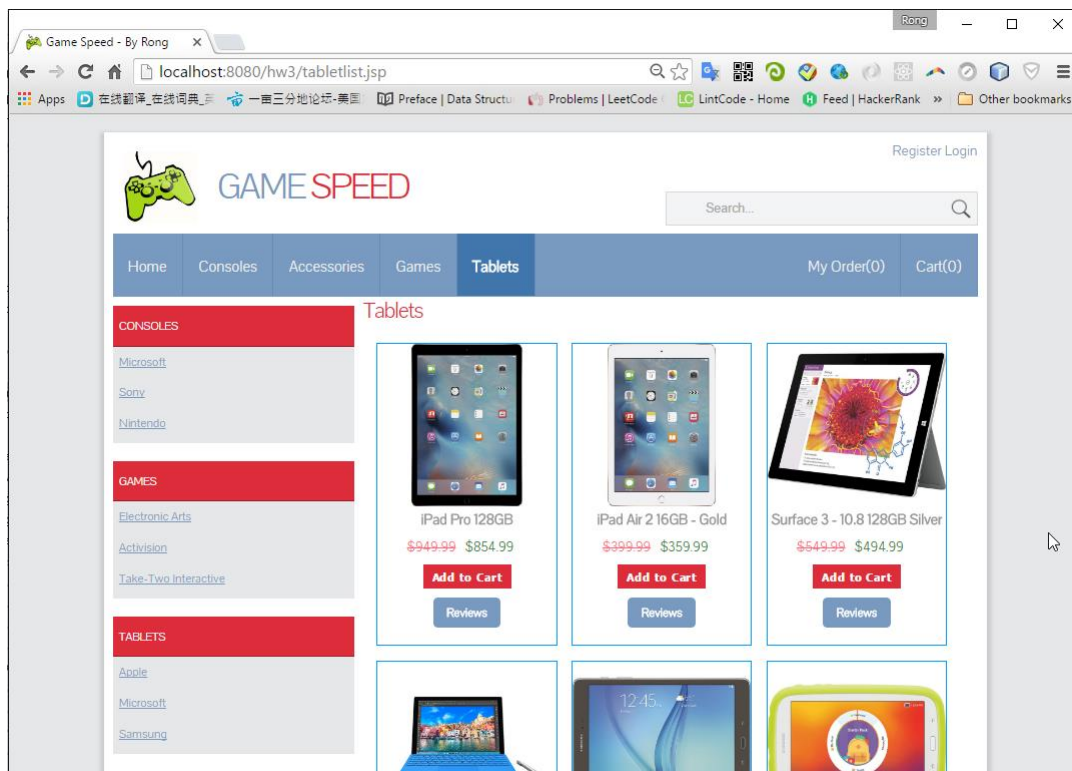
2.3 Games

- 1) When visit this page through the top menu, all games will be displayed.
- 2) When visit through the side bar, only the games of that maker will be displayed.



2.4 Tablets

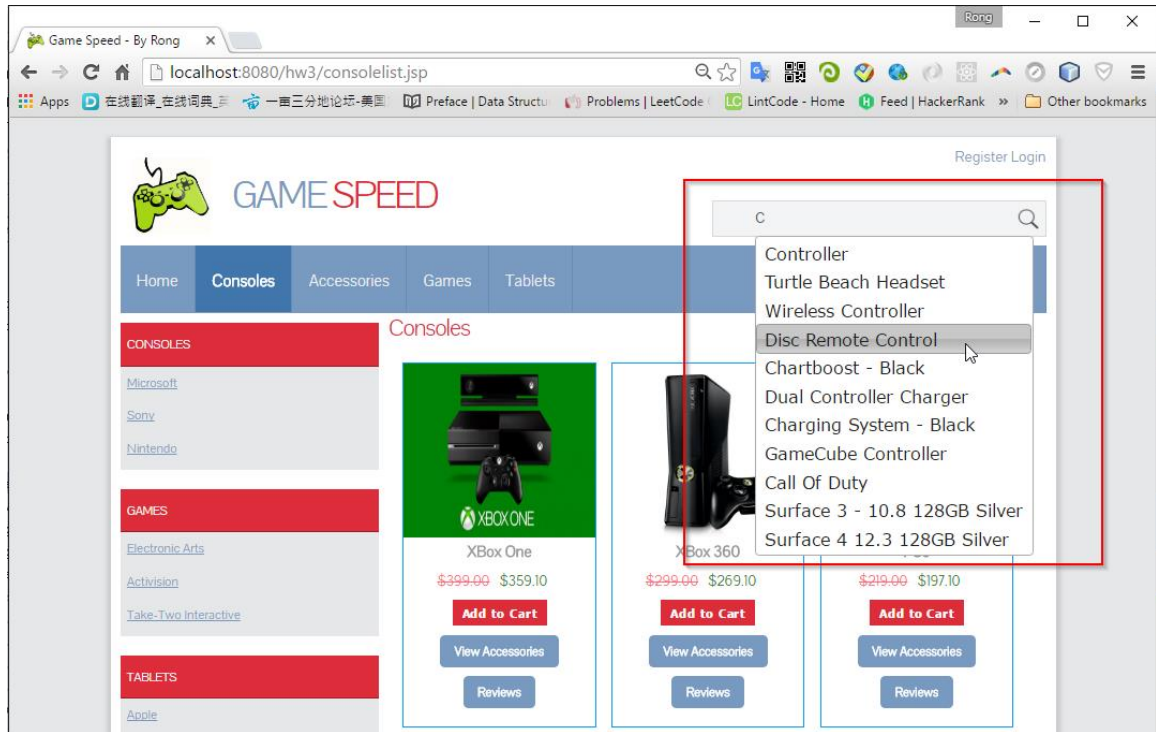
- 1) When visit this page through the top menu, all tablets will be displayed.
- 2) When visit through the side bar, only the tablets of that brand will be displayed.



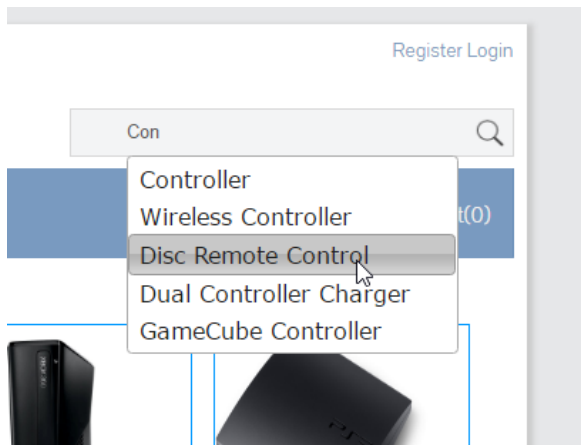
3. General Functions

3.1 Search Products

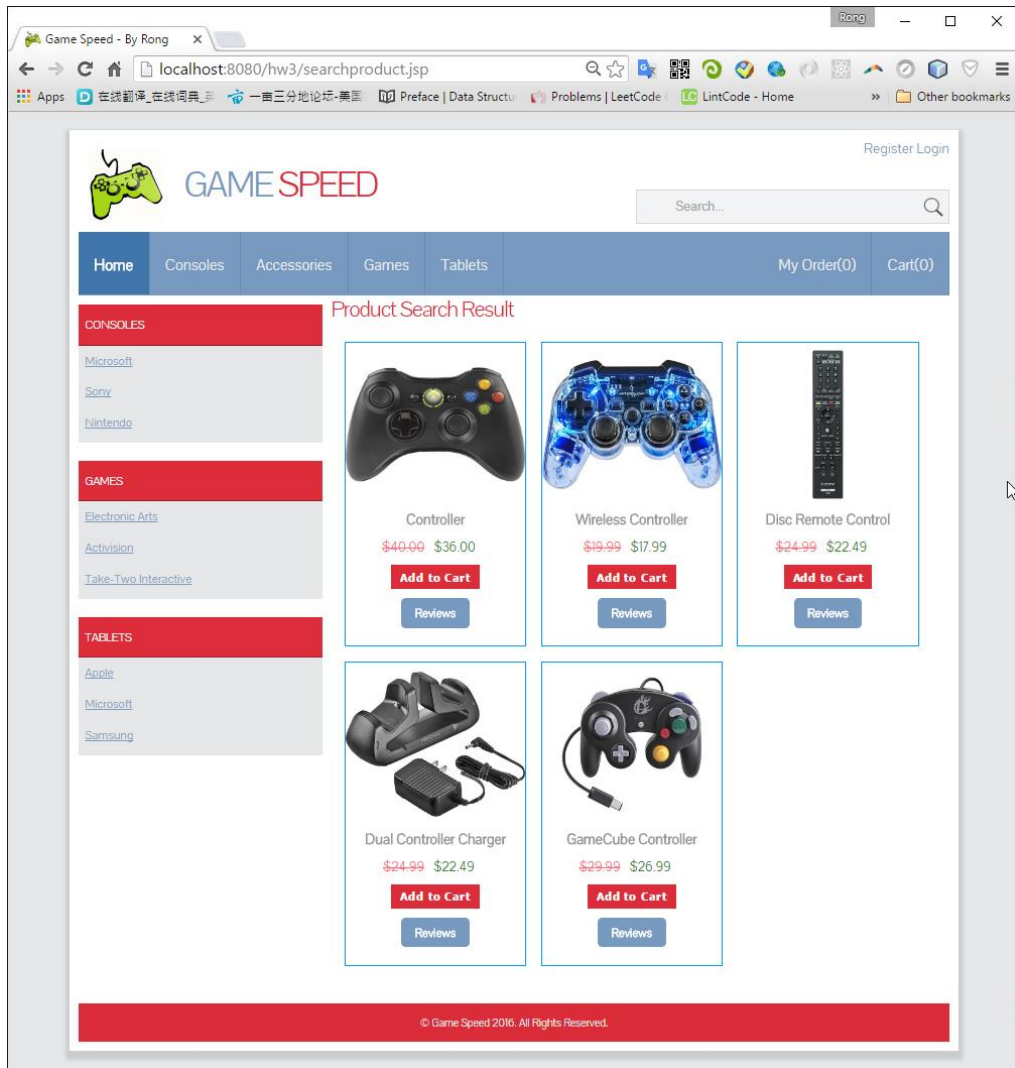
1) You can search any product, including Console, Accessory, Game and Tablet.



2) Auto complete is implemented.

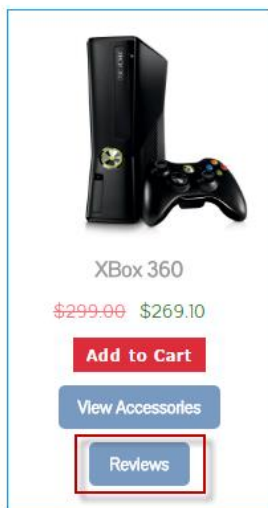


3) Search Results.

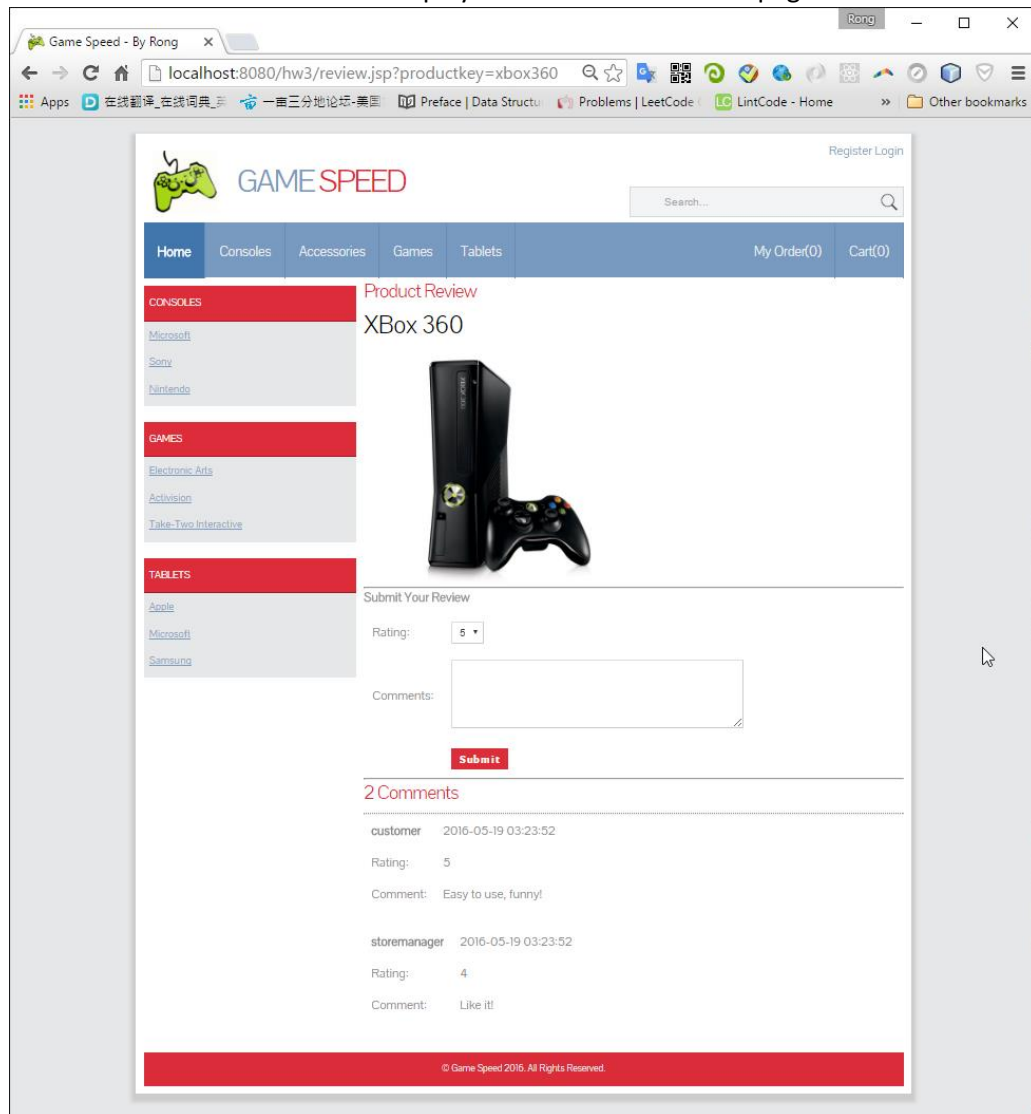


3.2 Review

- 1) You can check the review for any product.

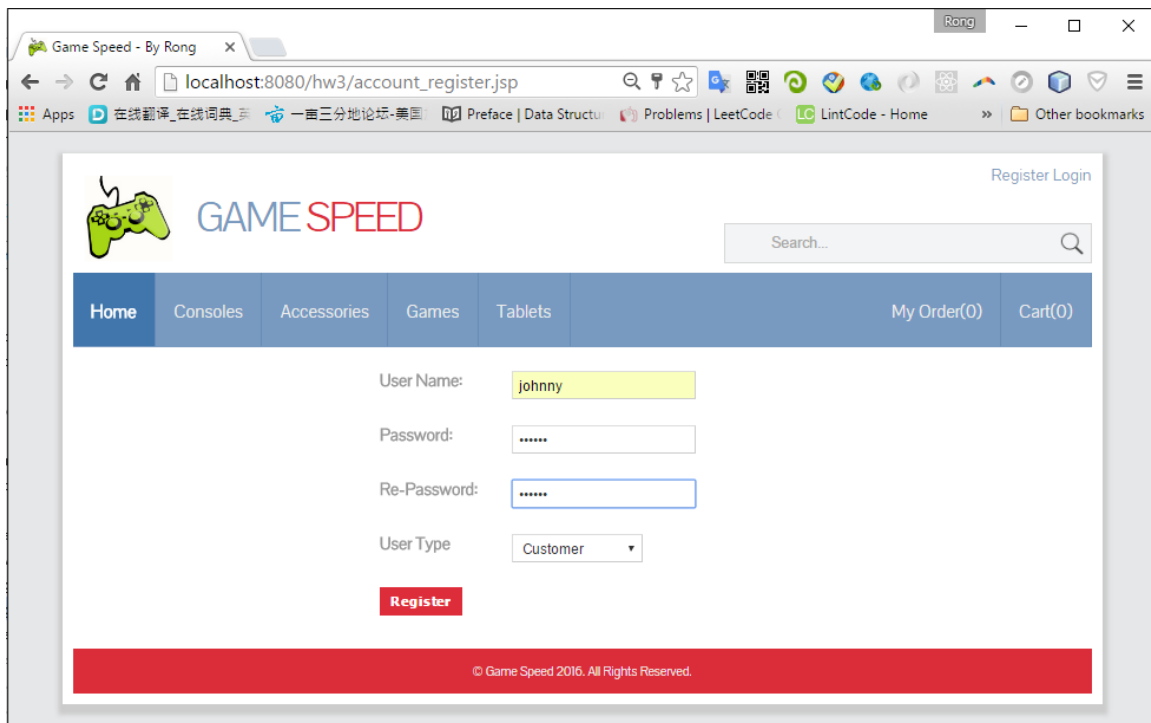


2) All of the review comments are displayed in the bottom of the page.

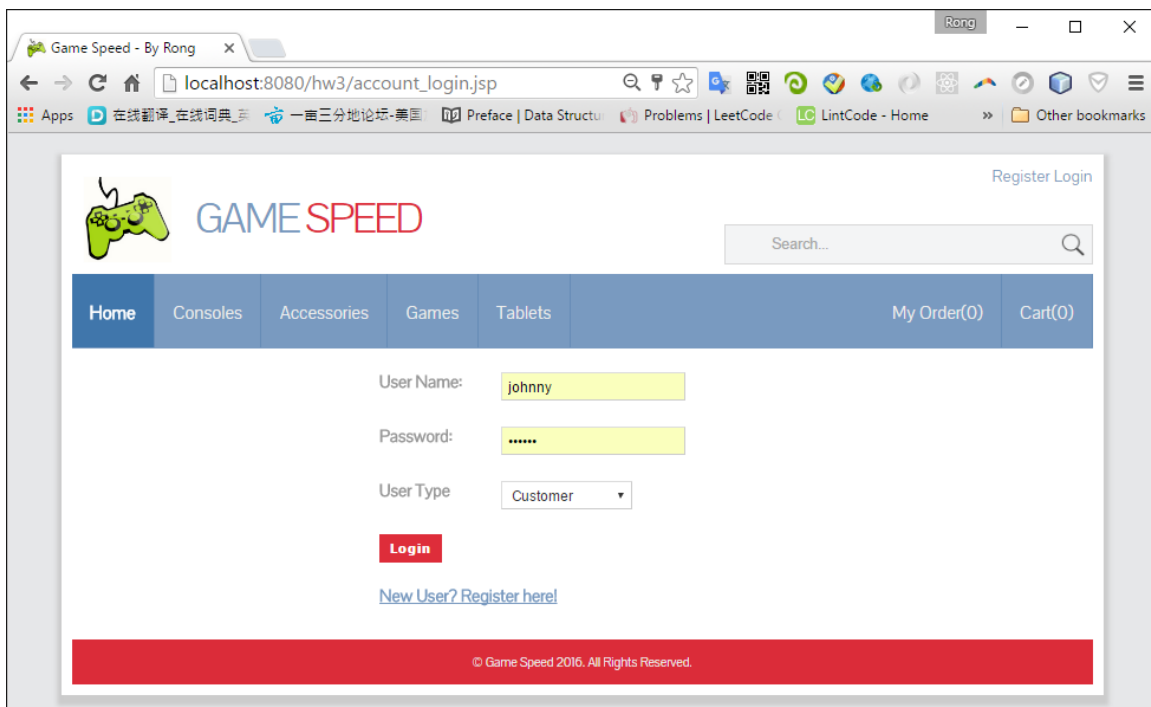


3) After login, you can submit new comment to product.

3.3 Register

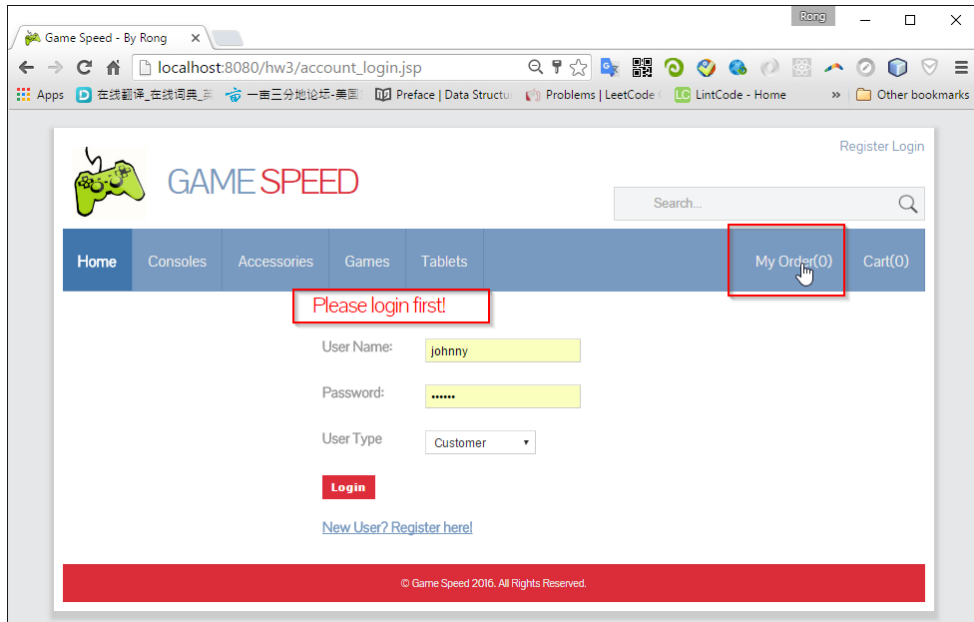


3.4 Login

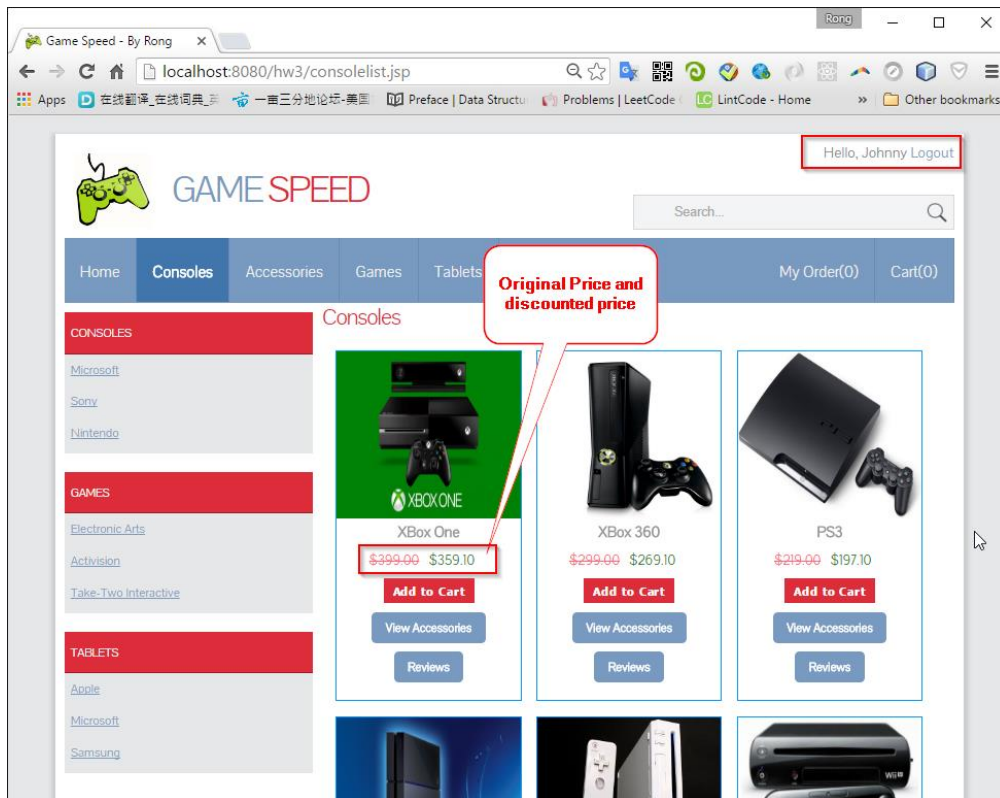


4. Role-Based Functions

- 1) All the role based functions are available only for the login user. You will get error message if you try to access unauthorized pages/functions.



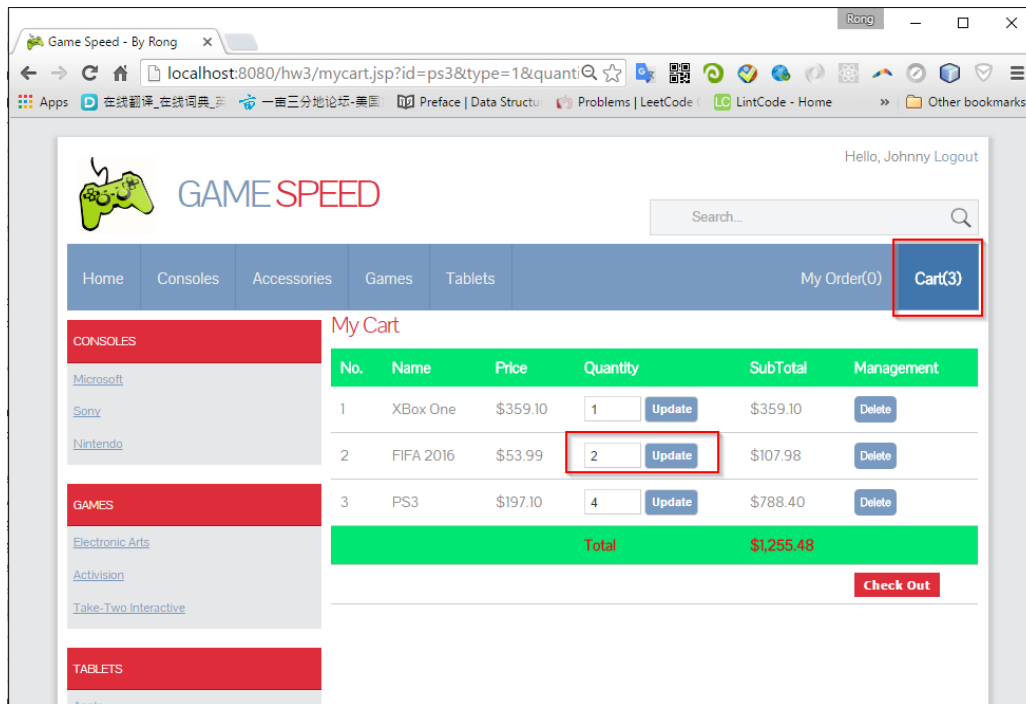
- 2) After successfully login, the buttons at the top right of the webpage are changed. You username will be displayed and you can logout.
- 3) The original and discounted price are both shown for each product. Click 'Add to cart' button to add the current item to your cart



4.1 Customer

Customer can purchase products, add item to cart and place order finally.

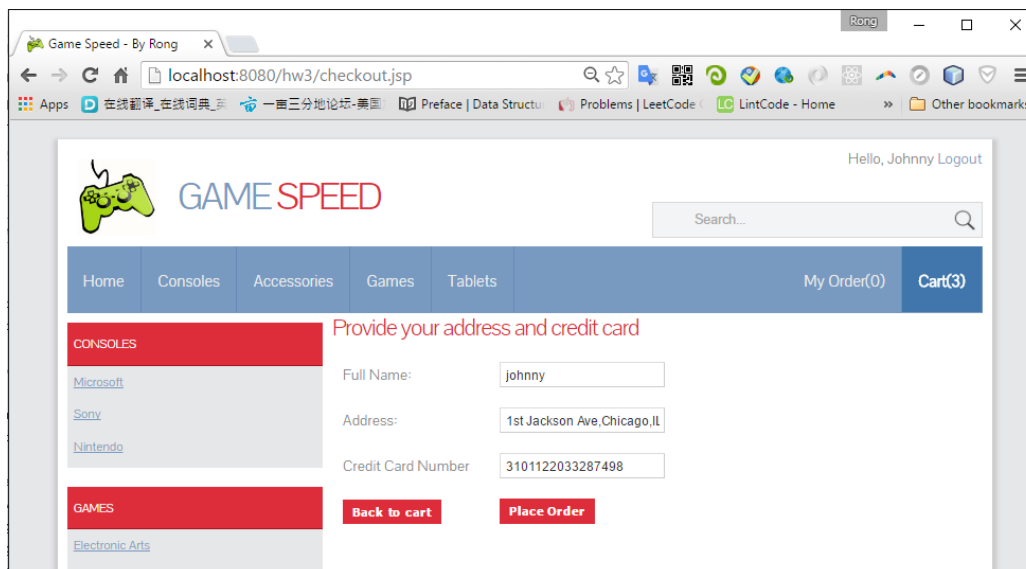
4.1.1 Cart



- 1) You can choose any product(console, accessory, game or tablet) added to your cart.
- 2) If any item added/removed from the cart, 'Cart(n)' will be refreshed immediately.
- 3) In the cart, you can update the quantity.
- 4) You can also remove the item.
- 5) The price is the discounted price.
- 6) The SubTotal shows the amount for each item cost(quantity may be larger than 1).
- 7) The Total shows the total amount cost of all items in this cart.

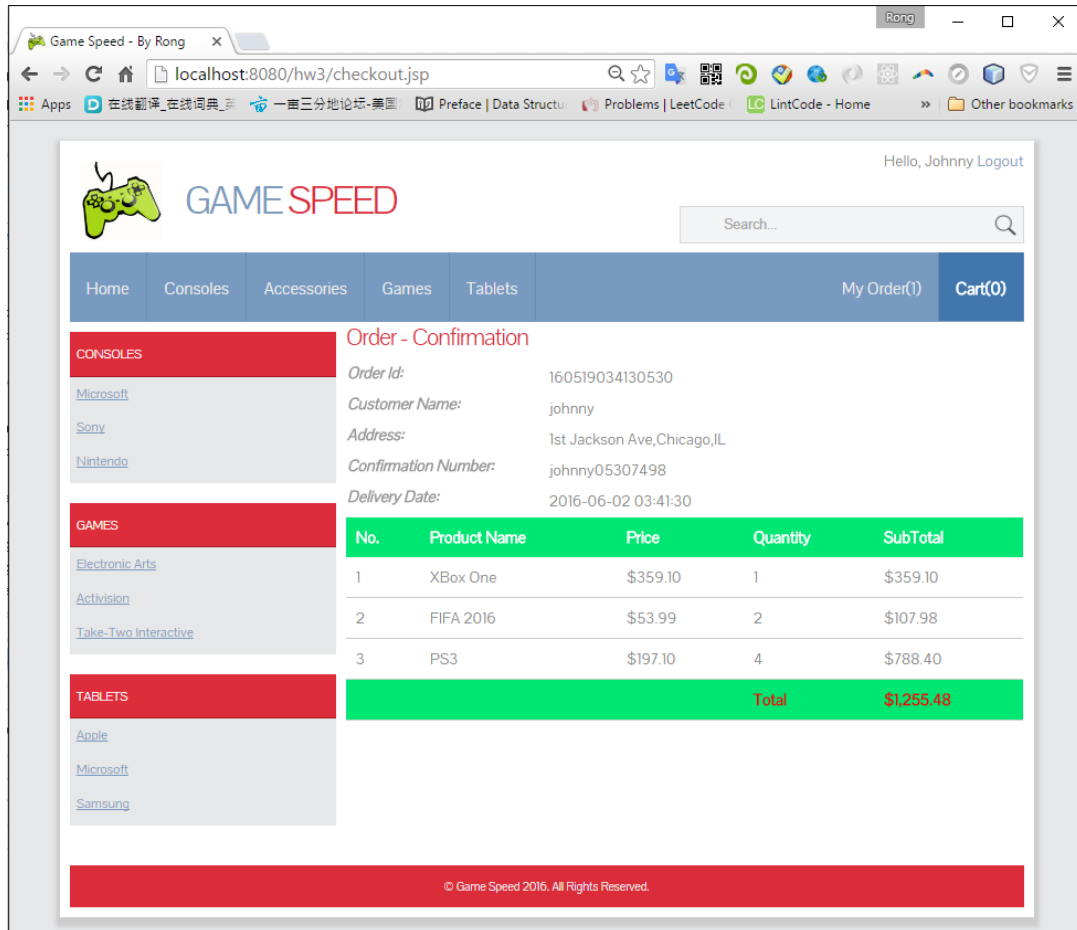
4.1.2 Checkout

- 1) The credit card number must be 16 digits length.



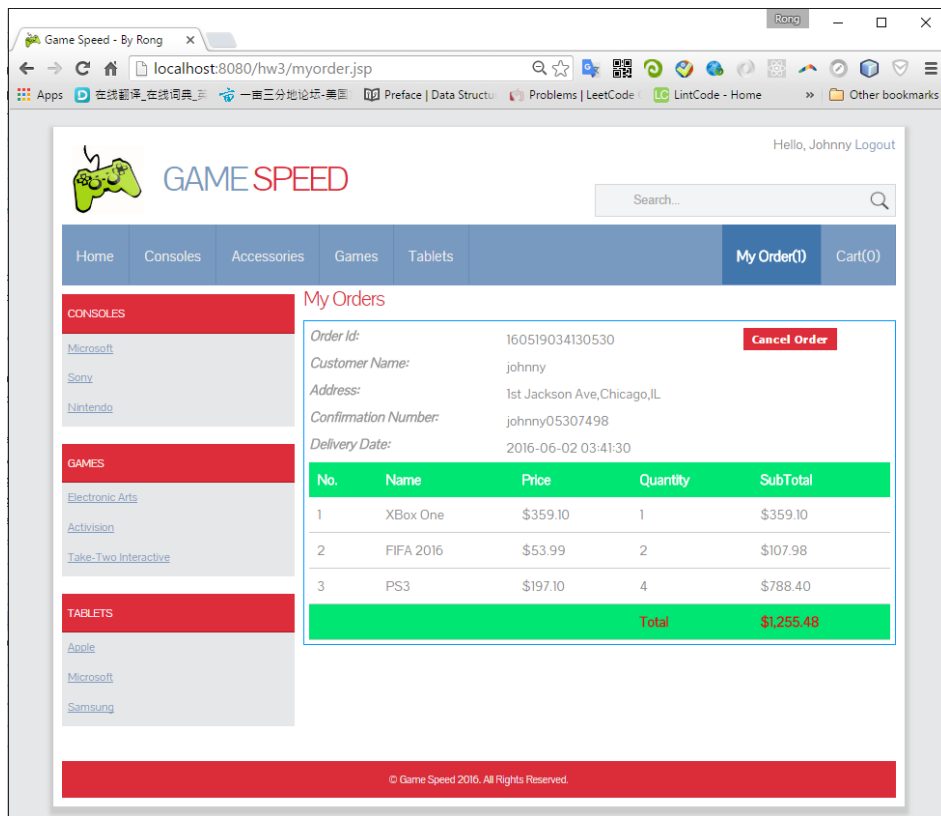
4.1.3 Place Order

- 1) The items in cart are removed. Meanwhile, the order count is incremented by 1.
- 2) The Order ID is unique. It is generated by current time 'yyMMddhhmmssMs'.
- 3) Confirmation Number is generated by following rule: customer name + last 4 digits of order id + last 4 digits of credit card number.
- 4) The delivery date is 2 weeks after the order date.

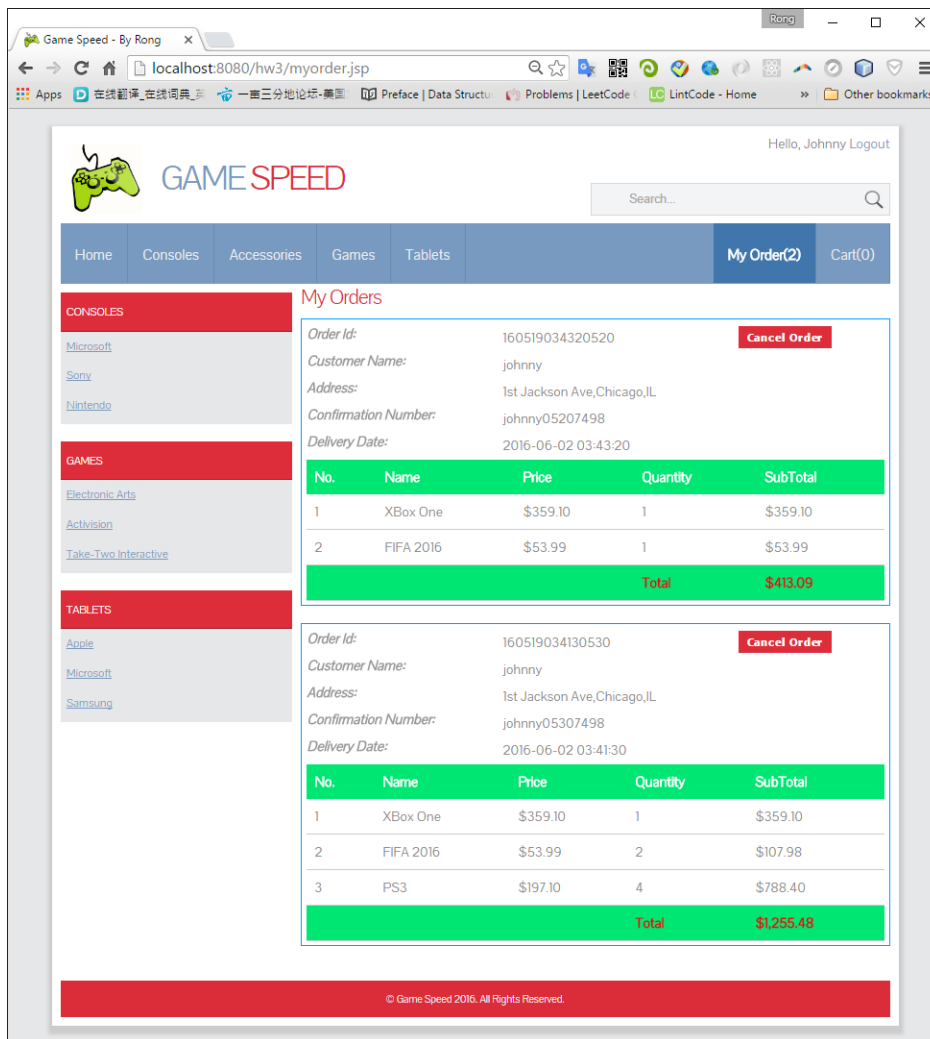


4.1.4 My Order

- 1) Similar with the Order Confirmation page.
- 2) You can cancel the order when the delivery date is not within 5 days from now.

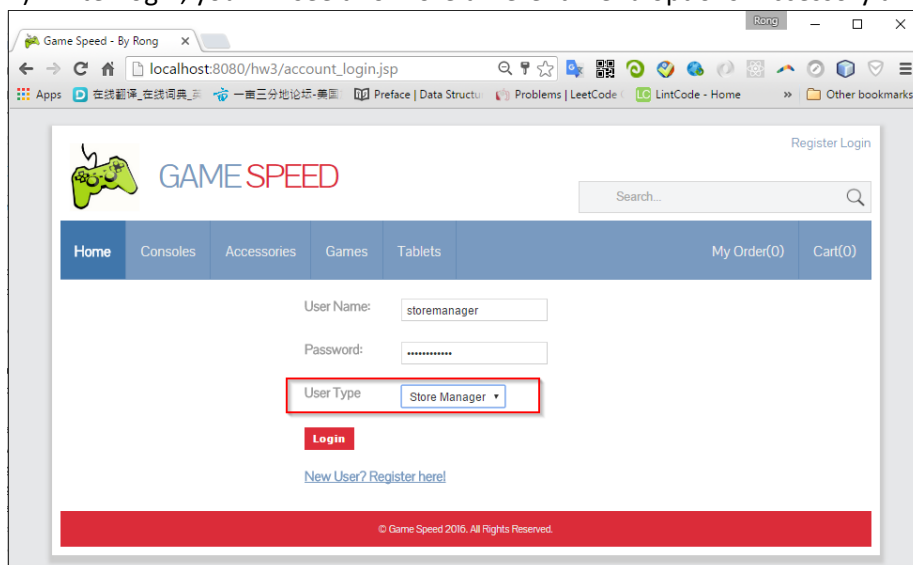


- 3) If there are multiple orders, all of them will be displayed, with detailed items and quantities.



4.2 Store Manger

- 1) Login with the default user 'storemanager' and password 'storemanager'.
- 2) After login, you will see two more different menu options: Accessory and Game.



4.2.1 Accessory

1) You can create, edit, and delete accessories.

The first screenshot shows the 'Accessory Management' page. The 'Accessory' menu item in the top navigation bar is highlighted with a red box. The page displays a table of accessories with columns for No., Accessory Name, Console, Price, and Management. The table contains four rows of data.

No.	Accessory Name	Console	Price	Management
1	Controller	XBox One	\$40.00	Edit Delete
2	Turtle Beach Headset	XBox One	\$50.00	Edit Delete
3	Speeding Wheel	XBox 360	\$40.00	Edit Delete
4	Wireless Adapter	XBox 360	\$50.00	Edit Delete

The second screenshot shows the 'Add Accessory' page. The 'Accessory' menu item is highlighted. The page contains a form with the following fields: Console (dropdown menu), Name, Price, Image, Retailer, Condition, and Discount. A 'Create' button is at the bottom of the form.

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4.2.2 Game

1) You can create, edit, and delete games.

The screenshot shows the 'Game Management' page in the Game Speed admin interface. The page has a top navigation bar with links: Home, Consoles, Accessories, Games, Tablets, Accessory, Game (active), My Order(0), and Cart(0). On the left, there are three sections: CONSOLES (with links to Microsoft, Sony, Nintendo), GAMES (with links to Electronic Arts, Activision, Take-Two Interactive), and TABLETS (with links to Apple, Microsoft, Samsung). The main content area is titled 'Game Management' and includes a 'Create New Game' button. Below this is a table with the following data:

No.	Maker	Game Name	Price	Management
1	electronicarts	FIFA 2016	\$59.99	Edit Delete
2	electronicarts	Need for Speed	\$59.99	Edit Delete
3	activision	Call Of Duty	\$54.99	Edit Delete
4	taketwointeractive	Evolve	\$49.99	Edit Delete

The footer of the page states: © Game Speed 2016. All Rights Reserved.

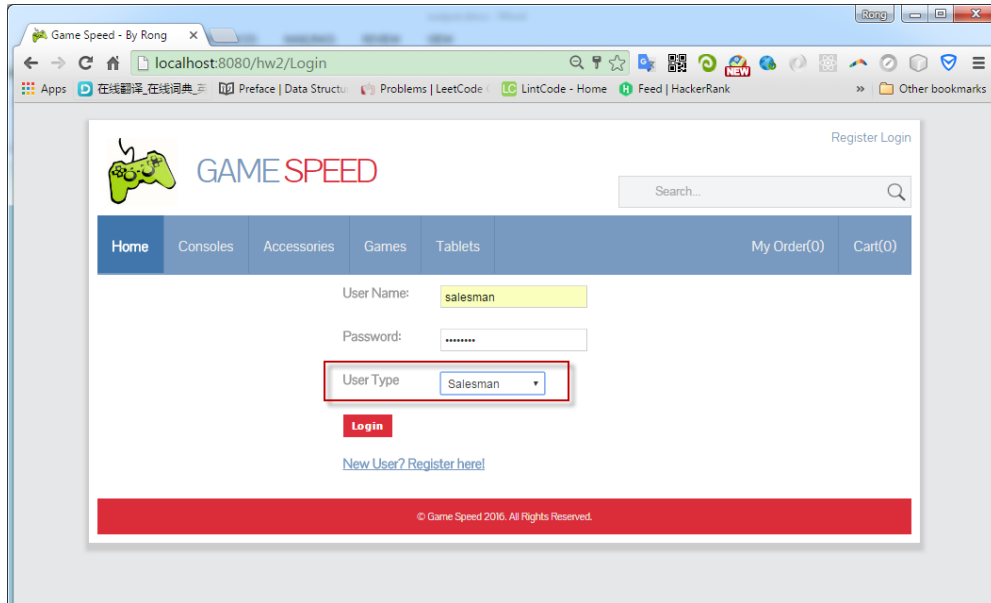
The screenshot shows the 'Add Game' page in the Game Speed admin interface. The page has the same top navigation bar as the previous screenshot. On the left, there are three sections: CONSOLES (with links to Microsoft, Sony, Nintendo), GAMES (with links to Electronic Arts, Activision, Take-Two Interactive), and TABLETS (with links to Apple, Microsoft, Samsung). The main content area is titled 'Add Game' and includes a form with the following fields:

- Maker:
- Name:
- Price:
- Image:
- Retailer:
- Condition:
- Discount:

Below the form is a red 'Create' button. The footer of the page states: © Game Speed 2016. All Rights Reserved.

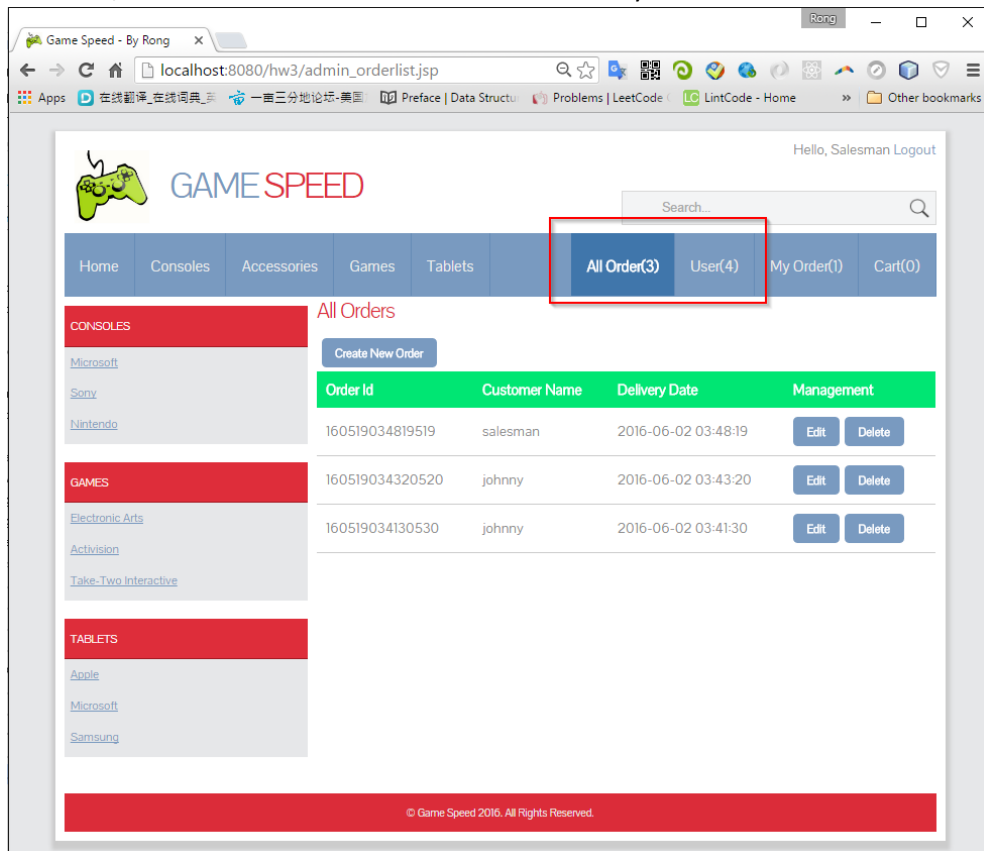
4.3 Salesman

- 1) Login with the default user 'salesman' and password 'salesman'.
- 2) After login, you will see two more different menu options: All Orders and User.



4.3.1 All Orders

- 1) You can create, edit, and delete customers' orders.
- 2) Different with 'My Order'. 'My Order' only displays orders belong to current logon user. Here, it show all of the orders. "All Orders" is only authorized to 'Salesman'.



3) Create Order

Select user, provide address and credit card.

Game Speed - By Rong

localhost:8080/hw3/admin_orderadd.jsp?0.0904843202

Hello, Salesman Logout

Search...

Home Consoles Accessories Games Tablets All Order(3) User(4) My Order(1) Cart(0)

CONSOLES

Microsoft
Sony
Nintendo

GAMES

Electronic Arts
Activision
Take-Two Interactive

TABLETS

Apple
Microsoft
Samsung

Create Order

Customer Name: storemanager **Place Order**

Address: 2241 S Archer Ave, Apt 4

Credit Card Number: 3101122033287498

Confirmation Number:

Delivery Date:

No.	Name	Price	Quantity	SubTotal	Management
1	XBox One	\$359.10	1	\$359.10	Delete
2	Speeding Wheel	\$36.00	1	\$36.00	Delete
Total				\$395.10	

Add Item

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Use 'Add Item' to add new product to the order.

Game Speed - By Rong

localhost:8080/hw3/admin_orderadd.jsp?0.0904843202

Hello, Salesman Logout

Search...

Home Consoles Accessories Games Tablets All Order(3) User(4) My Order(1) Cart(0)

CONSOLES

Microsoft
Sony
Nintendo

GAMES

Electronic Arts
Activision
Take-Two Interactive

TABLETS

Apple
Microsoft
Samsung

Create Order

Customer Name: storemanager **Place Order**

Address: 2241 S Archer Ave, Apt 4

Credit Card Number: 3101122033287498

Confirmation Number:

Delivery Date:

No.	Name	Price	Quantity	SubTotal	Management
1	XBox One	\$359.10	1	\$359.10	Delete
2	Speeding Wheel	\$36.00	1	\$36.00	Delete
Total				\$395.10	

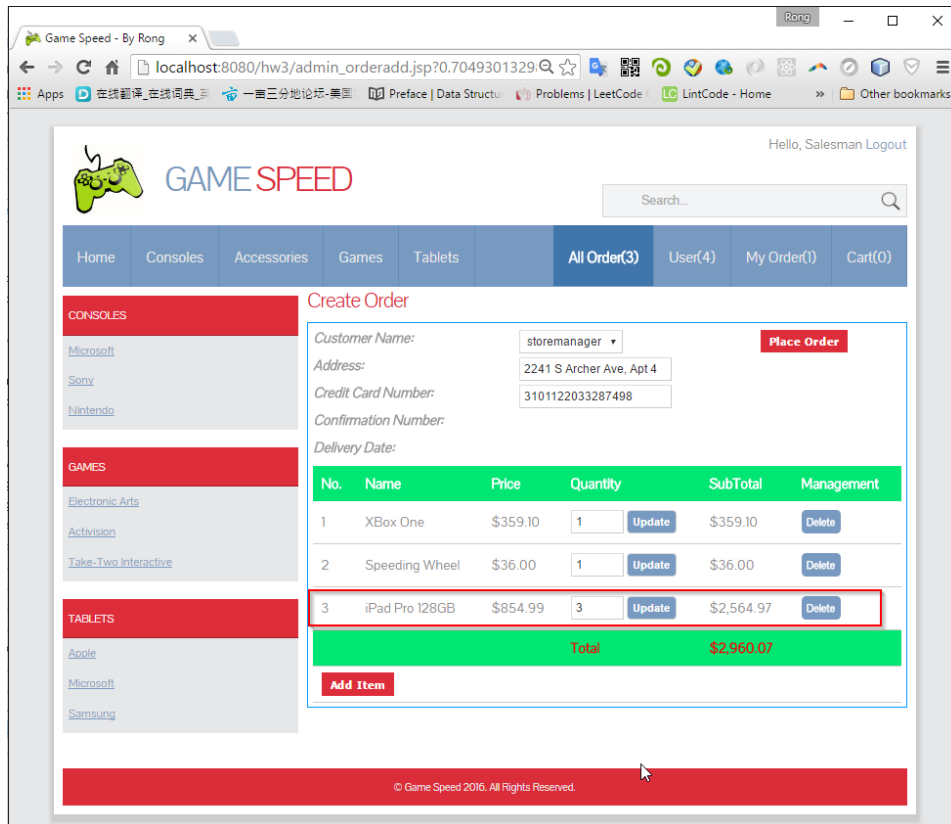
Choose Product

Product: iPad Pro 128GB

Quantity: 3

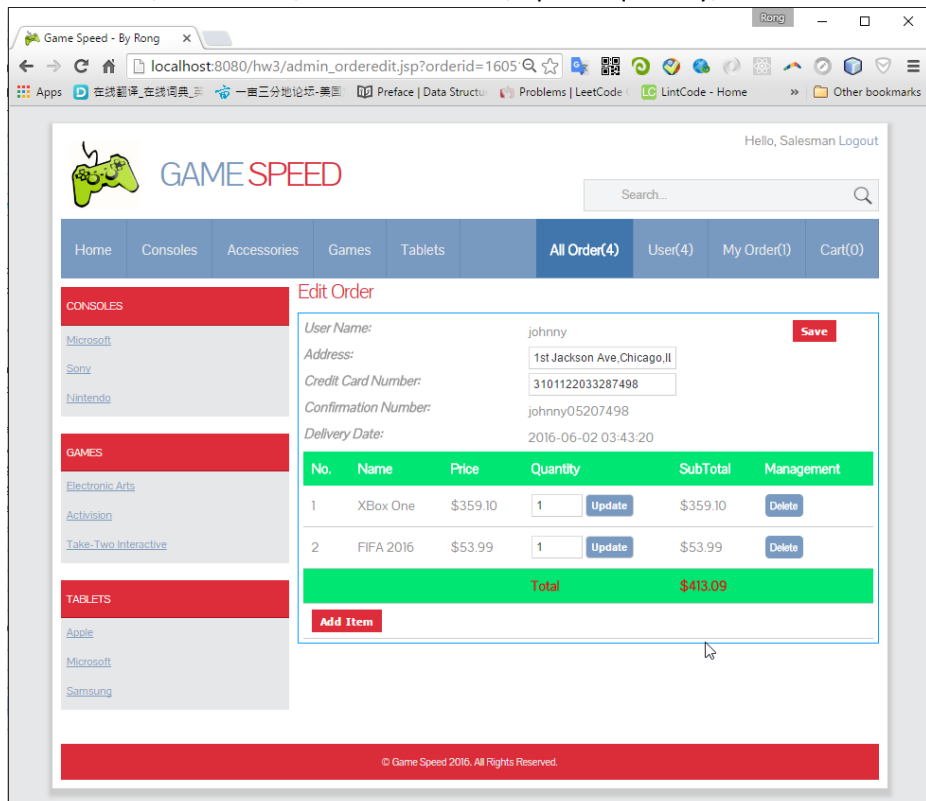
Add

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4) Edit Order

Edit address, credit card, Create new item, update quantity, delete item.



4.3.2 User

- 1) You can create, edit, and delete users.
- 2) User Name must be unique, no matter what role.

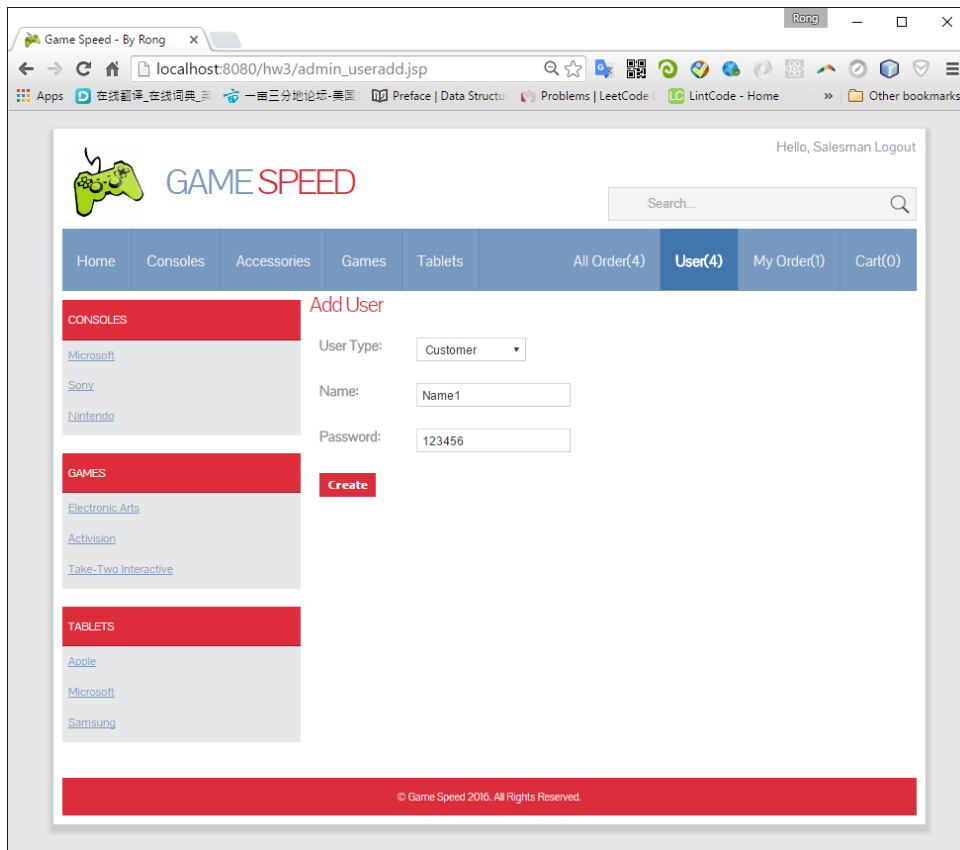
The screenshot shows a web browser window with the URL `localhost:8080/hw3/admin_userlist.jsp`. The page is titled "GAME SPEED" and features a navigation bar with links: Home, Consoles, Accessories, Games, Tablets, All Order(4), **User(4)**, My Order(1), and Cart(0). The "User(4)" link is highlighted, indicating the current page is the User List.

On the left side, there are three red headers for product categories: CONSOLES, GAMES, and TABLETS. Each header has a list of links below it: CONSOLES (Microsoft, Sony, Nintendo), GAMES (Electronic Arts, Activision, Take-Two Interactive), and TABLETS (Apple, Microsoft, Samsung).

The main content area is titled "User List" and includes a "Create New User" button. Below this is a table with the following data:

No.	User Name	User Type	Management
1	customer	customer	Edit Delete
2	storemanager	storemanager	Edit Delete
3	salesman	salesman	Edit Delete
4	johnny	customer	Edit Delete

At the bottom of the page, there is a red footer bar with the text: © Game Speed 2016. All Rights Reserved.



Only password is editable.

