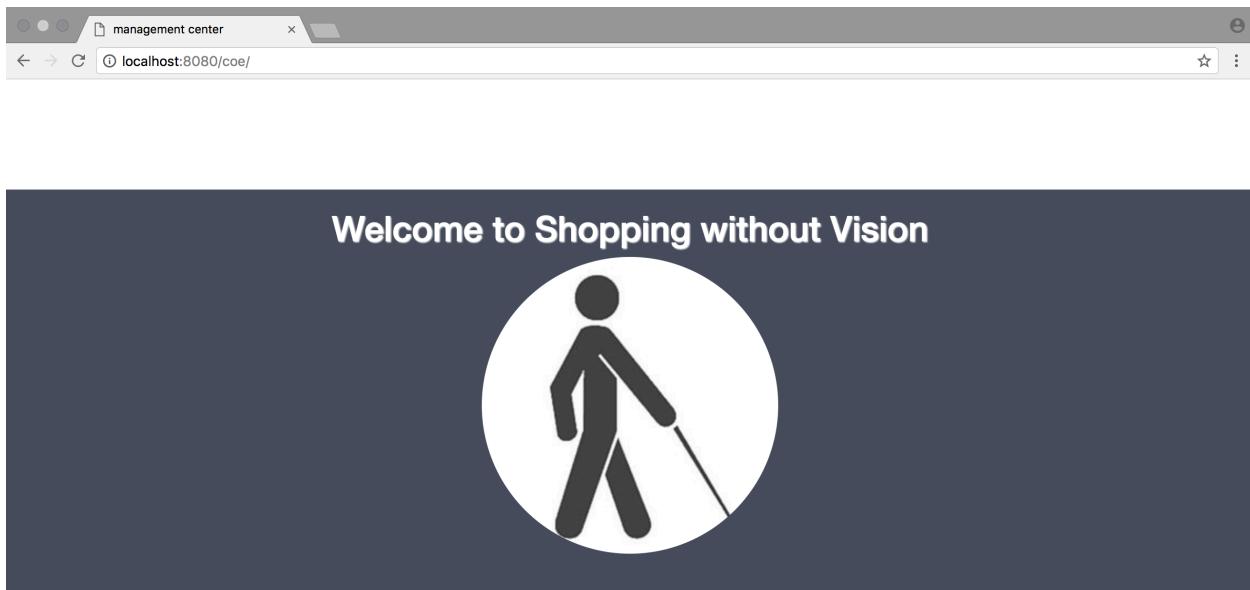


## 1 Customer functions

After completed the whole project, run the Java from eclipse. The general default page appears like the following:

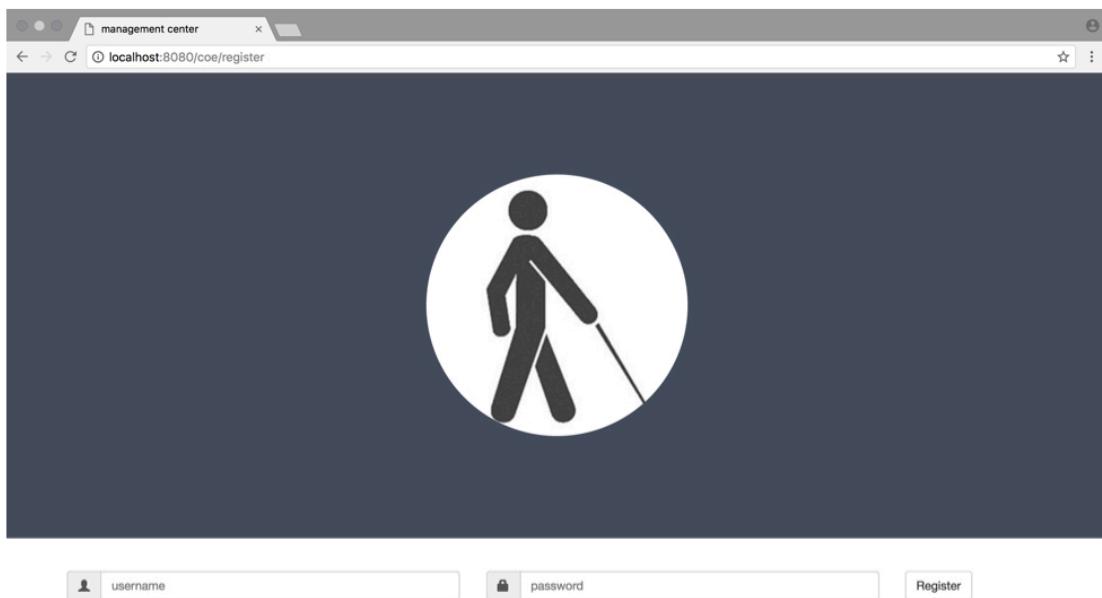


default page

When open this page, the guidance voice will play automatically. By the guidance, user can choose to register or login to our system. Press “left” can go to the register page; press “right” can go to the login page. Current user who already has an account can login by entering his username and password. Administrator can login from the login page as well.

## 1 Customer functions

Assume that users with visual impairment can login with their devices. Every set of equipment has a serial number linked to an account in our system. Here, to simulate the registration process and show it out, I added a visible register page:



register page

New user of this website could register from this page. After input a username and password, when the user clicking on the “Register” button on the left, this record will be insert into the “users” table in the database and this web page will be redirected to the login page, where the user can

enter the username and password to login.

The login page seems very similar to the register page. The only difference between them is the confirm button, login page has a “submit” button. When user has entered a correct pair of username and password, he will be able to see the customer’s home page:

Welcome to Shopping without Vision

Search

User Info

Here is the search result:

Product ID	1
Name	Sony XBR43X800D 43-Inch 4K Ultra HD TV
Product Price	648.0
Description	Refresh Rate: 60Hz (Native); Motionflow XR 240 (Effective)Backlight: LED (Edge-Lit)Smart Functionality: YesDimensions (W x H x D): TV without stand: 37.9" x 22.3" x 1.8", TV with stand: 37.9" x 24.1" x 8.6"Inputs: 4 HDMI (HDCP 2.2/HDMI 2.0a), 3 USBAccessories Included: Remote Control (RMF-TX200U), Batteries (R03), AC Power Adaptor (ACDP-160E01 or ACDP-160D01), AC Power Cord Spec US 2Pin (w/o Polarity), C7, IR Blaster (1-849-161-11), Table Top Stand (Separate, assembly required)
Date	2017-04-08
Smell	Smell Type: steel; Currency Range: 20 mA; Currency Frequency: 44 mA

<< <- > >> 1/31

customer home page

This home page contains mainly two parts: the search box and the product searching result. In a default home page, all the products will be listed, one product displayed per page, customer could view the listed products by press “left” or “right” on the keyboard. Applying the keyboard functions on this page, customer will be able to search a certain product by entering a keyword.

For example, if the customer has enter “LED” and confirm to search, the results are listed as following:

The screenshot shows a search interface with a search bar containing "LED". Below the search bar, there is a title "Welcome to Shopping without Vision". A table displays a single product result:

Product ID	1
Name	Sony XBR43X800D 43-Inch 4K Ultra HD TV
Product Price	648.0
Description	Refresh Rate: 60Hz (Native); Motionflow XR 240 (Effective)Backlight: LED (Edge-Lit)Smart Functionality: YesDimensions (W x H x D): TV without stand: 37.9" x 22.3" x 1.8", TV with stand: 37.9" x 24.1" x 8.6"Inputs: 4 HDMI (HDCP 2.2/HDMI 2.0a), 3 USBAccessories Included: Remote Control (RMF-TX200U), Batteries (R03), AC Power Adaptor (ACDP-160E01 or ACDP-160D01), AC Power Cord Spec (US 2Pin (w/o Polarity), C7), IR Blaster (1-849-161-11), Table Top Stand (Separate, assembly required)
Date	2017-04-08
Smell	Smell Type: steel; Currency Range: 20 mA; Currency Frequency: 44 mA

Here is the search result:

The screenshot shows a search interface with a search bar containing "LED". Below the search bar, there is a title "Welcome to Shopping without Vision". A table displays a single product result:

Product ID	31
Name	PURIDEA Wireless Portable Bluetooth Speakers V4.0
Product Price	43.99
Description	Meet the Puridea I2: A multi-functional Bluetooth Speaker (10 Hours playback) and 8000mAh power bank. Featuring a bright LED torch/flashlight,built-in USB charging cable, hands free calling and SIRI controls, quick release bike mount.
Date	2017-04-08
Smell	Smell Type: ; Currency Range: mA; Currency Frequency: mA

Here is the search result:

<< <- -> >> 1/6

(a)

(b)

search result of “LED”

There are totally 6 searching result of “LED”, customer could switch to view them by operating the keyboard. What’s more, the website has a deep search function. Customers could enter a keyword second time to seek for a more specific product, or they could clear all the former search they have made. For instance, if the customer continue search the keyword “HDMI” in the previous result, he will get only one result which contains the feature “HDMI”:

## Here is the search result:

Product ID	1
Name	Sony XBR43X800D 43-Inch 4K Ultra HD TV
Product Price	648.0
Description	Refresh Rate: 60Hz (Native); Motionflow XR 240 (Effective)Backlight: LED (Edge-Lit)Smart Functionality: YesDimensions (W x H x D): TV without stand: 37.9" x 22.3" x 1.8", TV with stand: 37.9" x 24.1" x 8.6"Inputs: 4 HDMI (HDCP 2.2/HDMI 2.0a), 3 USBAccessories Included: Remote Control (RMF-TX200U), Batteries (R03), AC Power Adaptor (ACDP-160E01 or ACDP-160D01), AC Power Cord Spec (US 2Pin (w/o Polarity), C7), IR Blaster (1-849-161-11), Table Top Stand (Separate, assembly required)
Date	2017-04-08
Smell	Smell Type: steel; Currency Range: 20 mA; Currency Frequency: 44 mA

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deep search

Satisfied with a product, customer could turn to the detail page of this product. Here, the customer could choose the quantity of the product and add them into his shopping cart.

Product Name	Sony XBR43X800D 43-Inch 4K Ultra HD TV
Product Price	648.0
Product Description	Refresh Rate: 60Hz (Native); Motionflow XR 240 (Effective)Backlight: LED (Edge-Lit)Smart Functionality: YesDimensions (W x H x D): TV without stand: 37.9" x 22.3" x 1.8", TV with stand: 37.9" x 24.1" x 8.6"Inputs: 4 HDMI (HDCP 2.2/HDMI 2.0a), 3 USBAccessories Included: Remote Control (RMF-TX200U), Batteries (R03), AC Power Adaptor (ACDP-160E01 or ACDP-160D01), AC Power Cord Spec (US 2Pin (w/o Polarity), C7), IR Blaster (1-849-161-11), Table Top Stand (Separate, assembly required)

Please input a number:  Add to Cart

product detail page

Product Name	Product Quantity	
1	1	<a href="#">Delete</a>
7	1	<a href="#">Delete</a>
14	2	<a href="#">Delete</a>

[Continue Buy](#) [Check Out](#)

cart page

In the cart page, customer can delete anything in it. Also, for further functions, he can choose to continue buy or checkout. Continue buy will lead customer to the search page, checkout will lead customer to choose a shipping address and place the order with all the products in the cart.

### Select a shipping address:

New Address						
Address ID	Address	State	Country	Zip Code	Receiver	
15	360 Huntington Ave	MA	US	02115	Chris	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Select</a>
16	700 Boylston St	MA	US	02116	Boston Public Library	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Select</a>

address page

After select the shipping address, the order will be placed. The total amount of order will be calculate through triggers written in MySQL.

A screenshot of a web browser window titled "management center". The URL in the address bar is "localhost:8080/coe/order/15/create". The main content area has a dark header with the text "Welcome to Shopping without Vision". Below the header is a table with four columns: Order ID, Total, Address, and Time. The table contains one row with values: Order ID 31, Total 795.0, Address 15, and Time 2017-04-19. At the bottom of the page is a blue button labeled "Back to home".

checkout page

## 2 Administrator functions

A screenshot of a web browser window titled "management center". The URL in the address bar is "localhost:8080/coe/home". The main content area has a dark header with the text "Welcome to Shopping without Vision". Below the header is the greeting "Hello! user!". To the left is a large image of several orange stick figures sitting at white desks with laptops. To the right is a graphic of the word "product" where each letter is composed of various business-related words like "marketing", "information", "company", etc. Below these images are two blue buttons: "Manage Users" and "Manage Products". At the bottom of the page is a blue "Log Out" link.

administrator home page

In the admin home page, there lists two main functions: manage users and manage products.

## Welcome to Management Center:

User Id	User Name	Email	Phone	Delete
1	aaa	abbie@gmail.com	0987654321	<a href="#">Delete</a>
2	bbb	bob@gmail.com	7770009999	<a href="#">Delete</a>
3	ccc	jim@gmail.com	6172220000	<a href="#">Delete</a>
4	ddd	tom@gmail.com	0001234567	<a href="#">Delete</a>
5	eee	bob@gmail.com	9001012345	<a href="#">Delete</a>
6	fff	frank@gmail.com	9012345678	<a href="#">Delete</a>
7	ggg	gigi@gmail.com	5678901234	<a href="#">Delete</a>
8	hhh	aj@gmail.com	9092110000	<a href="#">Delete</a>
9	iii	ivy@gmail.com	1234567890	<a href="#">Delete</a>
10	kkk	kale@gmail.com	3334445555	<a href="#">Delete</a>
11	lll	lisa	0910102020	<a href="#">Delete</a>

[Home](#) [Log Out](#)

## user management page

## Here is the search result:

Add Product					
Product ID	Product Name	Product Price	Product Description	Date	
1	Sony XBR43X800D 43-Inch 4K Ultra HD TV	648.0	Refresh Rate: 60Hz (Native); Motionflow XR 240 (Effective)Backlight: LED (Edge-Lit)Smart Functionality: YesDimensions (W x H x D): TV without stand: 37.9" x 22.3" x 1.8", TV with stand: 37.9" x 24.1" x 8.6"Inputs: 4 HDMI (HDCP 2.2/HDMI 2.0a), 3 USBAccessories Included: Remote Control (RMF-TX200U), Batteries (R03), AC Power Adaptor (ACDP-160E01 or ACDP-160D01), AC Power Cord Spec (US 2Pin (w/o Polarity), C7), IR Blaster (1-849-161-11), Table Top Stand (Separate, assembly required)	2017-04-08	<a href="#">Edit</a> <a href="#">Delete</a>
2	Canon EOS 5D	2499.0	22MP full frame CMOS sensor 6 frames per second continuous shooting 61-point AF	2017-	<a href="#">Edit</a> <a href="#">Delete</a>

## product management page

In the product management page, administrator could see all the existing categories and products in the system. In this page, they have plenty of useful functions to manage the data system:

- By clicking the “All Categories” button, they can go to the show category page and made some possible modifications to the existing categories.

### Show Current Category

Add Category	All Products		
CategoryId	Category Name		
1	Electronics & Computers	Edit	Delete
2	Clothing, Shoes & Jewelry	Edit	Delete
3	Home, Garden & Tools	Edit	Delete
4	Sports & Outdoors	Edit	Delete
5	Beauty, Health & Food	Edit	Delete
6	Toys, Kids & Baby	Edit	Delete

category page

- By clicking “Add Category” button, they can add a new category
- By clicking on a category, they will be able to view all the products under this category.

Add Product					
Product ID	Product Name	Product Price	Product Description	Date	
11	Zinus Memory Foam 12 Inch Green Tea Mattress, Queen	289.0	Enjoy the comfort and support of Green Tea Memory Foam. The Zinus Memory Foam 12 Inch Green Tea Mattress provides conforming comfort with a memory foam layer and Pressure Relieving Comfort Foam layer that conforms to the natural shape of your body. The Airflow High-density Foam layers provide long lasting durability and stability. Please open your mattress package within 72 hours of receipt and allow 48 hours for your new mattress to return to its original, plush shape. Worry free 10 year limited warranty. Another comfort innovation from Zinus. Pioneering comfort.	2017-04-08	Edit Delete
12	Furinno 11159EX/BR Multipurpose Storage Cabinet w/4	34.45	Furinno Home Living Sets comprises of Coffee table, end table, TV entertainment stands, and storage cabinets. The home living set comes in two color options - espresso and steam beech. These models are designed to fit in your space, style and fit on your budget. The main material, medium density composite wood, is made from recycled materials of rubber trees. All the materials are manufactured in Malaysia and	2017-04-08	Edit Delete

product listed of category 3 (Home, Garden & Tools)

- By clicking on the “Add product” button, they can add a new product.

**Please add new product:**

Name:	<input type="text"/>
Price:	<input type="text"/>
Description:	<input type="text"/>
Is hot? :	<input type="text"/>
Date:	2017/04/19
Category:	<input checked="" type="checkbox"/> --- Select --- Electronics & Computers Clothing, Shoes & Jewelry Home, Garden & Tools Sports & Outdoors Beauty, Health & Food Toys, Kids & Baby

**Confirm**

add new product

- By clicking on the “Edit” or “Delete” button after every product, they can modify or delete this product.