

**CSP584  
Final Project  
Homehub**

**OUTPUT**

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1. Auto-complete search feature & Google maps - Near ME search feature

The screenshot shows the HomeHub website homepage. At the top, there is a navigation bar with links: Home, Account, Trending, Services, Tools, Reviews, Contact, and Login. Below the navigation bar, a large banner features the text "SIMPLY MAKE YOUR HOME MORE COMFORTABLE TO LIVE IN." and a photograph of a modern living room. To the right of the banner, a search input field contains the letter "S", and a dropdown menu lists suggestions: "shovel", "Self-Adhesive Leather", and "Screws and Nuts, 1440PCS". A red box highlights this search area. Below the banner, there is a section labeled "Near ME search" with a button labeled "See the map". A blue box highlights the search input field.

The screenshot shows the HomeHub website homepage featuring a map of Chicago and surrounding suburbs. The map displays various neighborhoods and landmarks, such as Wrigley Field, North Avenue Beach, and the Navy Pier. Numerous red location pins are scattered across the map, indicating service locations. On the left side of the map, there is a sidebar for "Chicago Clean Home" which includes a photo of a team, the company name, a rating of 4.5, the address (3501 N Southport Ave #110, Chicago, IL 60657, USA), and a link to their website (http://www.chicagocleanhome.com/). Above the map, there is a search bar with the placeholder "search here..".

## 2. Twitter matches

HomeHub

Home Account Trending Services Tools Reviews Contact Hello,1 Logout

home cleaning near me See the map

Save \$95 on the Emerald 5.2L Digital Air Fryer - Black. #Deal

Save \$100 on the Insignia 115 Can Beverage Cooler -Stainless Steel. #Deal

### DEAL MATCHES



BEVERAGE COOLER

\$ 299.99

The freestanding design is ready to use out of the box, and adjustable shelves let you create customized storage for different sized bottles.

Add To Cart



AIR FRYER

\$ 139.99

Cook your favorite dishes in this Cuisinart air fryer toaster oven, and this Cuisinart air fryer toaster oven is whisper quiet to minimize disruptions.

Add To Cart

DealMatches.txt

Save \$300 on the Insignia™ 42 Bottle or 114 Can Built in Dual Zone Wine and Beverage Cooler - Stainless Steel. #Deal  
Save \$100 on the Insignia 115 Can Beverage Cooler -Stainless Steel. #Deal  
Save \$250 on the Dyson Ball Animal Bagless Upright Vacuum - Iron and Purple. #Deal  
Save \$250 on the Dyson Ball Animal Bagless Upright Vacuum - Iron and Purple. #Deal  
Save \$200 on the Dyson Ball Multi Floor Bagless Upright Vacuum - Iron and Yellow. #Deal  
Save \$60 on the Hoover WindTunnel Air Bagless Upright Vacuum - Silver and Red. #Deal  
Save \$150 on the Dyson Slim Ball Animal Bagless Upright Vacuum - Purple and Nickel. #Deal  
Save \$250 on the Dyson Ball Animal Bagless Upright Vacuum - Iron and Purple. #Deal  
Save \$95 on the Emerald 5.2L Digital Air Fryer - Black. #Deal  
Save \$60 on the Insignia Digital Air Fryer - Black #Deal  
Save \$25 on the CHEFMAN 3.5L Analog Air Fryer - Black. #Deal  
Save \$80 on the Chef di Cucina Nutri AirFry 5.5L Digital Air Fryer - Black. #Deal  
Save \$70 on the CHEFMAN 6.5L Analog Air Fryer - Black and Stainless Steel. #Deal  
Save \$40 on the Emerald 5.5qt Air Fryer - Black. #Deal  
Save \$30 on the Emerald 4.2qt Air Fryer - Black. #Deal

### 3. User Profile & Mysql

The screenshot shows the HomeHub website with a teal header bar. The header includes the logo "HomeHub", navigation links for Home, Account, Trending, Services, Tools, Reviews, Contact, a greeting "Hello,1", and Logout. There is also a search bar with the placeholder "search here..". Below the header, the page title "USER PROFILE" is displayed in large, bold, white letters. A table row below the title contains the following data:

Username	User Type	Street	City	State	Zip Code	Phone	Email	
1	customer	3681 Oakmound Road	Chicago	IL	60618	3129986739	NicolaCastanon@gmail.com	<button>Update</button> <button>delete</button>

At the bottom of the page, there is a dark footer bar with the text "Copyright 2020 HomeHub. All rights reserved." and social media sharing buttons for Facebook, Google+, Twitter, and Pinterest.

The screenshot shows the MySQL Workbench interface with the "UserProfiles" table selected. The table has the following columns: username, street, city, state, zipCode, phone, and email. The data is as follows:

username	street	city	state	zipCode	phone	email
1	3681 Oakmound Road	Chicago	IL	60618	3129986739	NicolaCastanon@gmail.com
2	234 East 55th st	Chicago	IL	60615	3127085984	SarahRadovic@gmail.com
3	4471 Tator Patch Road	Chicago	IL	60616	3128659937	AlexBuel@gmail.com
4	10 West 93rd st	Chicago	IL	60615	3128769937	EdgarHaroop@gmail.com

## 4. Reviews

**HomeHub**

Home Account Trending Services Tools Reviews Contact Hello,1 Logout

search here..

**WRITE REVIEW**

Product Name:	hammer
Quantity:	1
Price:	10.99
Store ID:	HomeHub Mall
Store Zip:	60615
Store City:	Chicago
Store State:	IL

User ID: 1  
User Age:   
User Gender: Male   
User Occupation:

Review Rating:  Review Date: mm/dd/yyyy   
Review Text:

write tool review

**WRITE REVIEW**

Service Name:	Deep Clean
Total Service Hour:	3h
Total Service Price:	90.09
Store ID:	HomeHub Mall
Store Zip:	60615
Store City:	Chicago
Store State:	IL

User ID: 1  
User Age:   
User Gender: Male   
User Occupation:

Review Rating:  Review Date: mm/dd/yyyy   
Review Text:

write service review

**HomeHub**

Home Account Trending Services Tools Reviews Contact Hello,1 Logout

search here..

**YOUR REVIEW**

Product Name:	hammer
Product Type:	Tool
Total Service Price:	10.99
Store ID:	HomeHub Mall
Store Zip:	60615
Store City:	Chicago
Store State:	IL
User Age:	30
User Gender:	male
User Occupation:	Teacher
Review Rating:	5
Review Date:	2020-12-10
Review Text:	good quality

Product Name:	Knot Filling & Wood Repair Kit
Product Type:	Tool
Total Service Price:	170.0
Store ID:	HomeHub Mall
Store Zip:	60618
Store City:	Chicago
Store State:	IL
User Age:	30
User Gender:	male
User Occupation:	Teacher
Review Rating:	3
Review Date:	2021-01-03
Review Text:	a little bit expensive

Product Name:	pliers
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localhost:8100/584project\_war\_exploded/WriteReview?name=viewReview#

**HomeHub**

Home Account Trending Services Tools **Reviews** Contact Hello,1 Logout

search here..

**CUSTOMER REVIEWS**

↗

view all the reviews whether user is logged in or not

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Facebook

Google+

Twitter

Pinterest

## 5. Trending & mongoDB

**HomeHub**

Home Account Trending Services Tools Reviews Contact Login

search here..

**TOP 5 MOST LIKED PRODUCTS**

Product Name	Review Rating
hammer	5
Wood Markers	5
Floor Repair	5
Anti-tip Wall Anchor Kit	5
pliers	5

**TOP 5 MOST SOLD PRODUCTS REGARDLESS OF THE RATING**

Product Name	Count
Anti-tip Wall Anchor Kit	2
hammer	2
pliers	2
WOOD CARVING TOOL SET	1
Floor Repair	1

**TOP 5 ZIP-CODES WHERE MAXIMUM NUMBER OF PRODUCTS SOLD**

Zip	Count
60615	6
60616	3
60618	2

Objects													
		ServiceOrders@homehub...			ToolOrders@homehub (I...			myReviews@homehubRe...			UserProfile@homehub (I...		
hammer	Tool	10.99	HomeHub	60615	Chicago	IL	1	30	male	Teacher	5	2020-12-10	good quality
Knot Filling & Wood Repair Kit	Tool	170.0	HomeHub	60618	Chicago	IL	1	30	male	Teacher	3	2021-01-03	a little bit exp
pliers	Tool	12.99	HomeHub	60618	Chicago	IL	1	30	male	Teacher	4	2020-12-08	good
shovel	Tool	12.99	HomeHub	60615	Chicago	IL	2	23	female	Student	1	2020-12-06	dislike
Anti-tip Wall Anchor Kit	Tool	11.99	HomeHub	60615	Chicago	IL	2	23	female	Student	2	2020-12-09	not good eno
hammer	Tool	10.99	HomeHub	60615	Chicago	IL	2	23	female	Student	5	2020-12-12	good product
Floor Repair	Tool	22.99	HomeHub	60615	Chicago	IL	2	23	female	Student	5	2020-12-12	goog
Anti-tip Wall Anchor Kit	Tool	35.97	HomeHub	60616	Chicago	IL	3	35	female	Accountant	5	2020-12-11	good
pliers	Tool	12.99	HomeHub	60616	Chicago	IL	3	35	female	Accountant	5	2020-12-05	I will buy it ag
hammer	Tool	10.99	HomeHub	60615	Chicago	IL	4	18	male	Programmer	1	2020-12-05	bad
WOOD CARVING TOOL SET	Tool	22.99	HomeHub	60616	Chicago	IL	3	35	female	Accountant	3	2020-12-12	not very good

## 6. User place service order

A customer can get the service quote from the service page, where all the booking information would be synced with mysql database, from the view service order page, a customer can leave a review for the order, and the review will be stored into the mongodb

The first screenshot shows the 'SERVICES' page with categories like CLEANING, PAINTING SERVICES, WINDOWS, and DECORATING.

The second screenshot shows a detailed service quote for 'STANDARD CLEANING' and 'DEEP CLEANING', including service descriptions and price details (205/h and 305/h). A 'BOOK ONLINE' button is highlighted.

The third screenshot shows the 'Payment Information' section with fields for hours, total price, and credit card information, followed by a 'Book' button.

The fourth screenshot shows a 'CONGRATULATIONS!' message with a success message and a link to the service details.

The page displays a table of service orders:

ServiceNo	ServiceName	Total Hour	Total Price	Service Detail	Appointment Date	Appointment Time	Operation
101807	Standard Clean	2h	40.0\$	cleaning!!	2020-12-10	14:17:00	<a href="#">Cancel</a> <a href="#">WriteReview</a>
120804	Exterior Painting	1h	50.0\$	We want to paint	2020-12-18	18:09:00	<a href="#">Cancel</a> <a href="#">WriteReview</a>

The MySQL Workbench interface shows the 'ServiceOrders' table with the following data:

orderId	username	productId	serviceName	serviceDetail	serviceDate	serviceTime	firstName	lastName	phone	email	zip	street
22634	c2	4	Exterior Painting	need exterior painting	2020-11-28	20:30:00	Lynn	Black	1592716709	972524603@qq.com	21076	28
22926	c1	4	Exterior Painting	need exterior painting	2020-11-28	20:33:00	Mike	White	1592716709	972524603@qq.com	29087	280
11734	c3	14	Outlet Installation	need help	2020-11-28	22:22:00	Judy	Brown	31346755140	972524603@qq.com	60608	qwd
101807	3	1	Standard Clean	cleaning!!	2020-12-10	14:17:00	Alex	Buel	3128659937	AlexBuel@gmail.com	60616	447
120804	3	4	Exterior Painting	We want to paint	2020-12-18	18:09:00	Edgar	Haroop	3128659937	EdgarHaroop@gmail.com	60615	10
181123	c1	4	Exterior Painting	need exterior painting	2020-12-08	15:11:00	Norma	Green	3123755140	972524603@qq.com	60616	280

## 7. User place tools order

A customer can place order from tools page, after the payment, a customer can choose the order is deliver or pick up at the store location. All the information will be inserted into mysql database, from the view order page, a customer can leave a review for the order, and the review will be stored into the mongodb

**HomeHub**

Home Account Trending Services Tools Reviews Contact Login

search here..

**NEW PRODUCT**

9.99  
Paint Scrapers that get the job done with a superior finish. Makes repair and refinishing jobs quick and easy.

**Add To Cart**



**WOOD CARVING TOOL SET**  
22.99  
Great for carving linoleum.

**Add To Cart**



**HAMMER**  
5.99  
The 1-Piece Steel Hammer has optimal weight distribution for a controlled swing.

**Add To Cart**



**SHOVEL**  
\$11.99  
Mutual Industries D-Handle round point shovels features secure, comfortable control and has high-density steel spades for long-lasting performance.

**Add To Cart**



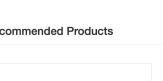
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Facebook Google Twitter Pinterest

**HomeHub** Home Account Trending Services Tools Reviews Contact Hello,3 Logout

search here..

**Recommended Products**

  
\$10.99  
The 1-Piece Steel Hammer has optimal weight distribution for a controlled swing.

**Add To Cart**

**Payment info**

**Full Name**  
Sarah Robbie

**Phone**  
3127699984

**Email**  
SarahRobbie@gmail.com

**Street**  
234 East 6th st

**City**  
Chicago

**State**  
IL

**ZipCode**  
60615

**Credit/Account No**  
5600 4000 0009 4807

**Delivery Method**  Store Pickup  Home Delivery

**Pickup Location**

1800 W Division  
3821 S Western Ave, Chicago, IL, 60623  
1800 W Division St, Chicago, IL, 60623

5600 E Broadway St, Chicago, IL, 60617  
5600 Beverage Crossing Way, Bayonne, NJ, 07002  
2770 Carlson Ct, Bayonne, NJ, 07002

110 Harrison Ave, Kearny, NJ, 07032  
201 N Harrison Blvd, Las Vegas, NV, 89101

3795 E 59th St, Long Beach, CA, 90805  
2770 Carlson Ct, Lakewood, CO, 80401

## YOUR ORDERS

OrderNo	productName	Quantity	Total Price	Delivery Method	Create Time	Operation
40	Anti-tip Wall Anchor Kit	3	35.97	delivery	2020-12-03 22:21:21	<a href="#">Cancel</a> <a href="#">WriteReview</a>
41	Furniture Strap	1	8.99	delivery	2020-12-03 22:21:21	<a href="#">Cancel</a> <a href="#">WriteReview</a>
42	Screws and Nuts, 1440PCS	1	19.99	delivery	2020-12-03 22:21:21	<a href="#">Cancel</a> <a href="#">WriteReview</a>
43	pliers	1	12.99	pickup	2020-12-03 22:21:43	<a href="#">Cancel</a> <a href="#">WriteReview</a>
44	Furniture Anti-Tip Kit	1	21.98	pickup	2020-12-03 22:21:43	<a href="#">Cancel</a> <a href="#">WriteReview</a>
45	WOOD CARVING TOOL SET	1	22.99	pickup	2020-12-03 22:21:43	<a href="#">Cancel</a> <a href="#">WriteReview</a>
46	pliers	1	12.99	pickup	2020-12-03 22:30:54	<a href="#">Cancel</a> <a href="#">WriteReview</a>
47	Knot Filling & Wood Repair Kit	1	170.0	pickup	2020-12-03 22:30:54	<a href="#">Cancel</a> <a href="#">WriteReview</a>
48	Screws and Nuts, 1440PCS	1	19.99	pickup	2020-12-03 22:30:54	<a href="#">Cancel</a> <a href="#">WriteReview</a>

MySQL Workbench

The screenshot shows the MySQL Workbench interface. The top bar has several icons: a file icon, a database icon, a search icon, and a refresh icon. Below the bar, there are two tabs: "Query 13" and "toolorders". The "toolorders" tab is selected, indicated by a blue border. The main area contains a SQL query:

```
1 • SELECT * FROM homehub.toolorders  
2   where username = 3  
3
```

The value '3' in the WHERE clause is highlighted with a red rectangular box. The status bar at the bottom of the interface shows "Rows: 1000" and "Time: 00:00:00".

## 8. Product recommendations function

Based on the user behavior, we used python and machine learning techniques to implement the product recommendation function

# HomeHub

Home Account Trending Services Tools Reviews Contact Hello,3 Logout

search here..

productName	productPrice	Quantity	Price	Operation
shovel	12.99\$	1	12.99\$	<a href="#">Delete</a>
Furniture Strap	8.99\$	3	26.97\$	<a href="#">Delete</a>
Total			39.96\$	<a href="#">ClearCart</a>

[check out](#)

### Recommended Products



The 1-Piece Steel Hammer has optimal weight distribution for a controlled swing

[Add To Cart](#)

< >

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[Facebook](#) [Google+](#) [Twitter](#) [Pinterest](#)

9. A customer can use the contact function on the home page, where staffs can receive them from mysql database

The top half shows a 'CONTACT US' form with fields for name (Sarah Radovic), email (SarahRadovic@gmail.com), phone (3127085984), a message area with placeholder 'write information here', and a 'Send message' button.

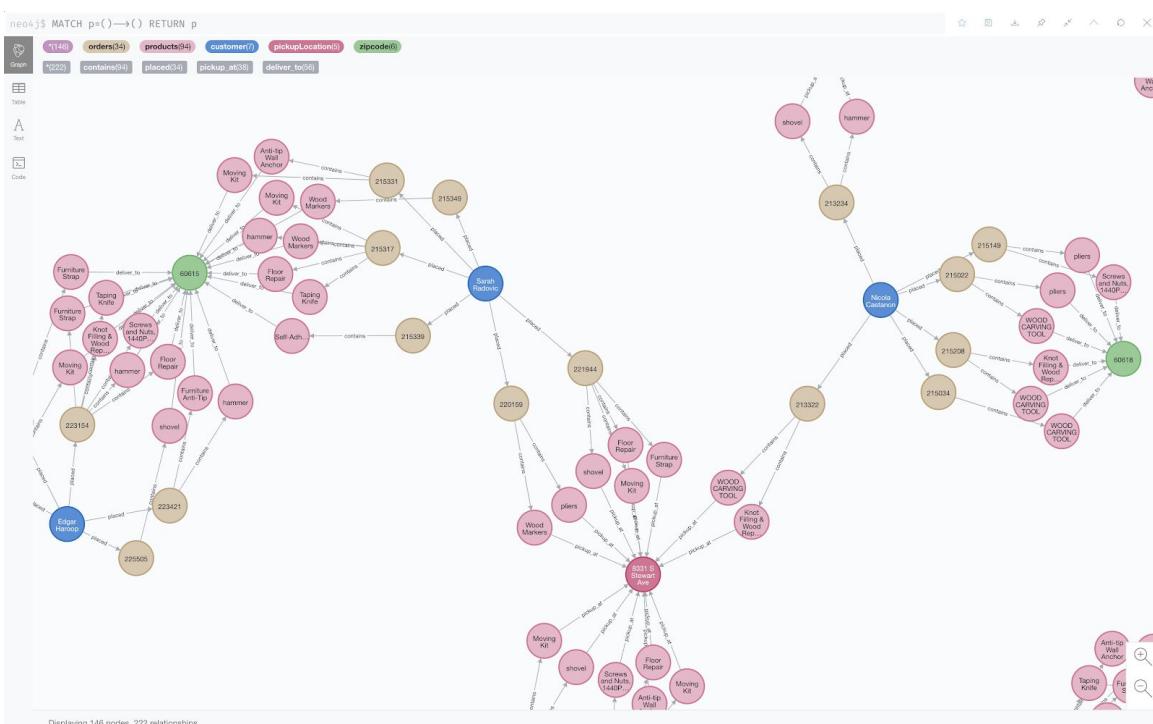
The bottom half shows the MySQL Workbench interface with a query window displaying the results of the SQL command:

```
1 •  SELECT * FROM homehub.ContactInfo;
```

contactid	customerid	customername	customeremail	customerphone	customermessage
120843	3	Sarah Radovic	SarahRadovic@gmail.com	3127085984	You guys are awesome !!
120913	3	Sarah Radovic	SarahRadovic@gmail.com	3127085984	Information will sync to here
150135	1	Sarah Radovic	SarahRadovic@gmail.com	3127085984	I want to have it to try

## 10. Neo4j database

Blue dot as a customer PLACED brown dot as order CONTAINS pink dot as product DELIVER TO green dot zipcode or PICKUP at dark pink dot as store location.



## 11. store manager view,update,add,remove products

**MENU**

- Product management
  - view products
  - add product
  - inventory
- Order management
  - view orders
  - add service order
  - add tool order
  - sales report
- Customer management
  - view Customer
  - add customer

**ProductList**

ID	Name	Price	Inventory	Status	UpdateProduct	RemoveProduct
1	hammer	10.99	60	Old	<a href="#">Update</a>	<a href="#">Remove</a>
2	shovel	12.99	44	Old	<a href="#">Update</a>	<a href="#">Remove</a>
3	pliers	12.99	46	Old	<a href="#">Update</a>	<a href="#">Remove</a>
4	Knot Filling & Wood Repair Kit	170.0	23	Old	<a href="#">Update</a>	<a href="#">Remove</a>
5	Self-Adhesive Leather	14.98	12	Old	<a href="#">Update</a>	<a href="#">Remove</a>
6	Wood Markers	7.99	35	Old	<a href="#">Update</a>	<a href="#">Remove</a>
7	Furniture Anti-Tip Kit	21.98	64	Old	<a href="#">Update</a>	<a href="#">Remove</a>

**MENU**

- Product management
  - view products
  - add product
  - inventory
- Order management
  - view orders
  - add service order
  - add tool order
  - sales report
- Customer management
  - view Customer
  - add customer
- Contact message

**Update Product**

Product ID:	<input type="text" value="1"/>
Product Name:	<input type="text" value="hammer"/>
Product Price:	<input type="text" value="10.99"/>
Product Inventory:	<input type="text" value="60"/>
Product Status:	<input type="text" value="Old"/>
Product Describe:	<input type="text" value="The 1-Piece Steel Hammer has optimal weight distribution for a controlled swing"/>
Product Image:	<input type="text" value="HAMMERS.png"/>

[update product](#)

**MENU**

- Product management
  - view products
  - add product
  - inventory
- Order management
  - view orders
  - add service order
  - add tool order
  - sales report
- Customer management
  - view Customer
  - add customer
- Contact message
- View messages

**Add Product**

Product ID:	<input type="text"/>
Product Name:	<input type="text"/>
Product Price:	<input type="text"/>
Product Inventory:	<input type="text"/>
Product Describe:	<input type="text"/>
Product Image:	<input type="text"/> Choose File No file chosen

[add product](#)

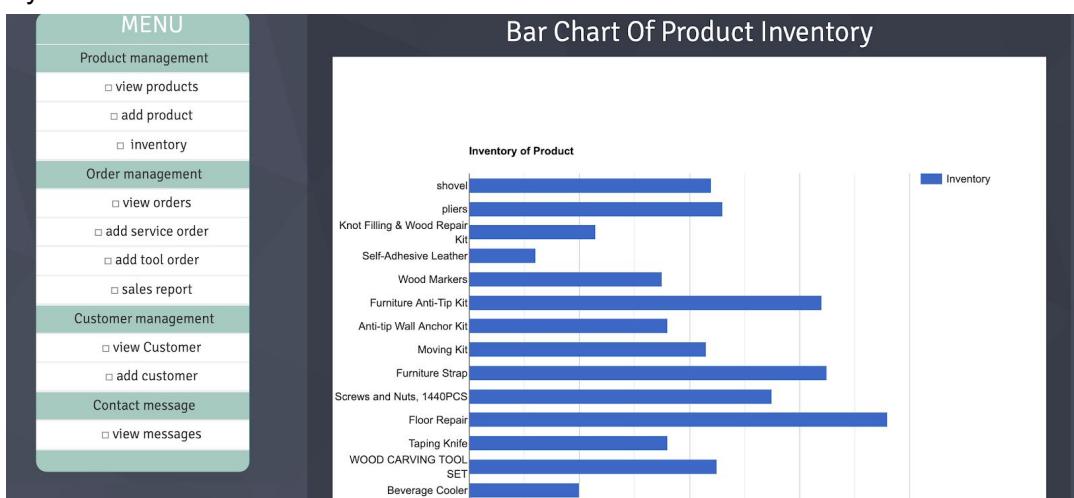
**MENU**

- Product management
  - view products
  - add product
  - inventory
- Order management
  - view orders
  - add service order
  - add tool order
  - sales report
- Customer management
  - view Customer
  - add customer
- Contact message
  - view messages

**remove Product**

Product is deleted successfully

## 12. Inventory



## 13. store manager view,update,add,remove orders

**Tool Order List**

OrderId	FullName	ProductName	Price	Quantity	Address	ZipCode	UpdateOrder	RemoveOrder
15	Nicola Castanon	shovel	14	1	234 East 55th st ,Chicago,IL	60615	<button>Update</button>	<button>Remove</button>
16	Nicola Castanon	Knot Filling & Wood Repair Kit	170.0	1	3681 Oakmound Road ,Chicago,IL	60618	<button>Update</button>	<button>Remove</button>
17	Nicola Castanon	WOOD CARVING TOOL SET	22.99	1	3681 Oakmound Road ,Chicago,IL	60618	<button>Update</button>	<button>Remove</button>
18	Nicola Castanon	pliers	12.99	1	3681 Oakmound Road ,Chicago,IL	60618	<button>Update</button>	<button>Remove</button>
19	Nicola Castanon	WOOD CARVING TOOL SET	22.99	1	3681 Oakmound Road ,Chicago,IL	60618	<button>Update</button>	<button>Remove</button>

MENU			
Product management			
□ view products			
□ add product			
□ inventory			
Order management			
□ view orders			
□ add service order			
□ add tool order			

**Service Order List**

OrderId	Username	Id	ServiceName	Detail	Date	Time	Price	UpdateOrder	RemoveOrder
233	12	344	repaire	111	2020-12-25	18:12:00	123	<button style="border: none; background-color: #008080; color: white; padding: 2px;">Update</button>	<button style="border: none; background-color: #008080; color: white; padding: 2px;">Remove</button>
22919	1	13	Light Fixture Installation	need light fixture installation	2020-11-30	21:29:00	35.0\$	<button style="border: none; background-color: #008080; color: white; padding: 2px;">Update</button>	<button style="border: none; background-color: #008080; color: white; padding: 2px;">Remove</button>
23224	2	22	Laminate floor repair	need laminate floor repair	2020-11-25	15:00:00	130.0\$	<button style="border: none; background-color: #008080; color: white; padding: 2px;">Update</button>	<button style="border: none; background-color: #008080; color: white; padding: 2px;">Remove</button>
23323	2	1	Standard Clean	need standard clean	2020-11-09	06:32:00	20.0\$	<button style="border: none; background-color: #008080; color: white; padding: 2px;">Update</button>	<button style="border: none; background-color: #008080; color: white; padding: 2px;">Remove</button>
23449	2	12	Electric Wiring Repair	need electric wiring repair	2020-12-07	20:35:00	75.0\$	<button style="border: none; background-color: #008080; color: white; padding: 2px;">Update</button>	<button style="border: none; background-color: #008080; color: white; padding: 2px;">Remove</button>

MENU			
Product management			
□ view products			
□ add product			
□ inventory			
Order management			
□ view orders			
□ add service order			
□ add tool order			
□ sales report			
Customer management			
□ view Customer			
□ add customer			
Contact message			
□ view messages			

**Update Service Order**

OrderId:	233
Username:	12
ServiceId:	344
ServiceName:	repaire
ServiceDetail:	111
serviceDate:	2020-12-25
serviceTime:	18:12:00
servicePrice:	123

**update service order**

MENU			
Product management			
□ view products			
□ add product			
□ inventory			
Order management			
□ view orders			
□ add service order			
□ add tool order			
□ sales report			
Customer management			
□ view Customer			
□ add customer			
Contact message			
□ view messages			

**Add Service Order**

Order ID:	<input type="text"/>
Username:	<input type="text"/>
Service ID:	<input type="text"/>
ServiceName:	<input type="text"/>
serviceDetail:	<input type="text"/>
serviceDate:	<input type="text"/> mm/dd/yyyy
serviceTime:	<input type="text"/> --:-- --
firstName:	<input type="text"/>
lastName:	<input type="text"/>
phone:	<input type="text"/>
email:	<input type="text"/>
zipCode:	<input type="text"/>

14. sales reporter

Table of Service Sold

ServiceName	ServiceTotalTime	Counts	Price
Water heater repair	135.0	3	135.0\$
Full Decorating	480.0	6	480.0\$
Electric Wiring Repair	375.0	5	150.0\$
Wood Furniture Repair	969.0	4	900.0\$
repaire	123.0	33	123
Light Fixture Installation	35.0	1	35.0\$

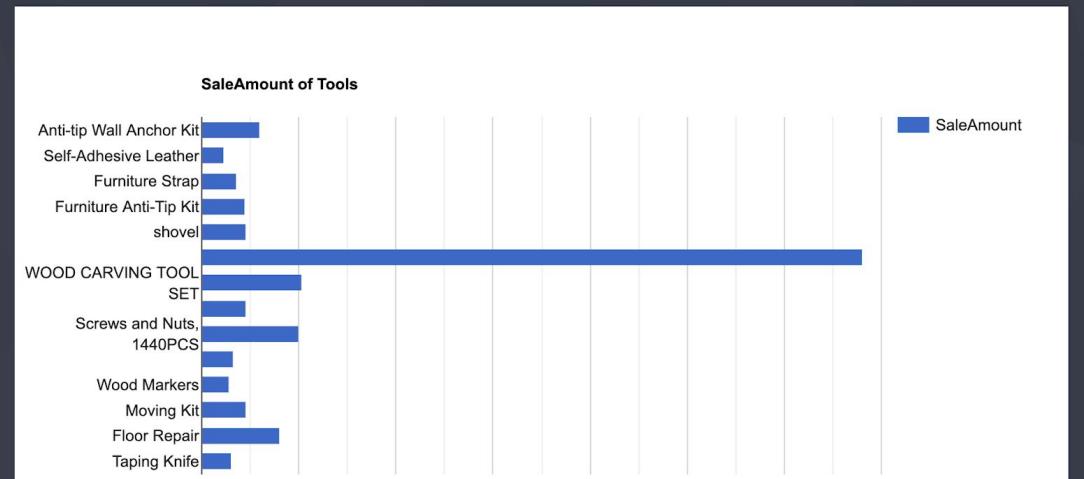
Table of Tool Sold

ProductName	Price	SaleAmount	Counts
Anti-tip Wall Anchor Kit	11.99\$	119.90\$	10
Self-Adhesive Leather	14.98\$	44.94\$	3
Furniture Strap	8.99\$	71.92\$	8
Furniture Anti-Tip Kit	21.98\$	87.92\$	4
shovel	13.13\$	91.94\$	7
Knot Filling & Wood Repair Kit	170.00\$	1360.00\$	8
WOOD CARVING TOOL SET	22.99\$	206.91\$	9

Table of Tool Sold

CreateTime	SaleAmount
2020-12-04 12:08:26	38.96\$
2020-12-04 12:08:52	87.94\$
2020-12-04 12:09:51	12.99\$
2020-12-04 12:15:22	25.97\$
2020-12-04 12:15:40	197.96\$
2020-12-04 12:18:16	45.98\$
2020-12-04 12:19:30	19.99\$

## Bar Chart Of Tool SaleAmount



### 15. store manager view,add,update customers

**MENU**

- Product management
  - view products
  - add product
  - inventory
- Order management
  - view orders
  - add service order
  - add tool order
  - sales report
- Customer management
  - view Customer
  - add customer

**CustomerList**

Username	Street	City	State	ZipCode	Phone	Email	UpdateCustomer
1	3681 Oskmound Road	Chicago	IL	60618	3129986740	NicolaCastanon@gmail.com	<button>Update</button>
2	234 East 55th st	Chicago	IL	60615	3127085984	SarahRadovic@gmail.com	<button>Update</button>
3	4471 Tator Patch Road	Chicago	IL	60615	3128659937	AlexBuel@gmail.com	<button>Update</button>
4	10 West 93rd st	Chicago	IL	60615	3128769937	EdgarHaroop@gmail.com	<button>Update</button>
c1	231o, Wa,Ave	Chicago	ILLINOIS	60616	3124432212	fgde29@gamil.com	<button>Update</button>
c13	231o, Wa,Ave	Chicago	ILLINOIS	60616	3124432212	fgde29@gamil.com	<button>Update</button>
Jixin	231o, Wa,Ave	Chicago	ILLINOIS	60616	3124432212	fgde29@gamil.com	<button>Update</button>

**MENU**

- Product management
  - view products
  - add product
  - inventory
- Order management
  - view orders
  - add service order
  - add tool order
  - sales report
- Customer management
  - view Customer
  - add customer

**Add Customer**

Username:	<input type="text"/>
Street:	<input type="text"/>
City:	<input type="text"/>
State:	<input type="text"/>
ZipCode:	<input type="text"/>
Phone:	<input type="text"/>
Email:	<input type="text"/>

**add customer**

MENU	
Product management	
<input type="checkbox"/>	view products
<input type="checkbox"/>	add product
<input type="checkbox"/>	inventory
Order management	
<input type="checkbox"/>	view orders
<input type="checkbox"/>	add service order
<input type="checkbox"/>	add tool order
<input type="checkbox"/>	sales report
Customer management	
<input type="checkbox"/>	view Customer
...	

## 16. view and reply message

MENU	
Product management	
<input type="checkbox"/>	view products
<input type="checkbox"/>	add product
<input type="checkbox"/>	inventory
Order management	
<input type="checkbox"/>	view orders
<input type="checkbox"/>	add service order

Customer message						
ContactID	CustomerId	Name	Email	Phone	message	respond message
31436	1	Nicola Castanon	NicolaCastanon@gmail.com	3129986739	interested in cleaning service	<input type="button" value="reply"/>
31546	3	Alex Buel	jhe59@hawk.iit.edu	3128659937	interested in repair service	<input type="button" value="reply"/>

MENU	
Product management	
<input type="checkbox"/>	view products
<input type="checkbox"/>	add product
<input type="checkbox"/>	inventory
Order management	
<input type="checkbox"/>	view orders
<input type="checkbox"/>	add service order
<input type="checkbox"/>	add tool order
<input type="checkbox"/>	sales report
Customer management	
<input type="checkbox"/>	view Customer
<input type="checkbox"/>	add customer
Contact message	
<input type="checkbox"/>	view messages

reply Customer						
To:	<input type="text" value="NicolaCastanon@gmail.com"/>					
From:	<input type="text"/>					
Password:	<input type="text"/>					
Subject:	<input type="text"/>					
Compose email:	<input type="text"/>					