

Quality Hats Final Document

The screenshot shows a web browser window with the URL `dochyper.unitec.ac.nz/mengc06/PHPPractical/index.php?content_page=Shop`. The page features a navigation bar with links: Quality Hats, All HATS, MENS, WOMENS, KIDS, and ORDER. The user is logged in as `Hi willcute@gmail.com`. Below the navigation bar, three hats are displayed in a grid:

- 41 Star**: Cute and casual hat with stitched detailing and a slide adjustment feature on the back. Price: \$11.90.
- BLACK TWILL HAT**: A comfortable fit with adjustable slider buckle detail and embroidered icon logo. Imported. Price: \$32.00.
- GREEN STAR HAT**: A comfortable fit with adjustable slider buckle detail and USA flag exterior patch. Imported. Price: \$22.50.

Below the product grid are 'Prev' and 'Next' buttons. The 'Shopping Cart' section contains a table with the following data:

ID	Name	Description	Price	Quantity	Subtotal
18	41 Star	Cute and casual hat with stitched detailing and a slide adjustment feature on the back.	\$11.90	1	\$11.9

Below the table, the text 'GST: 1.78' and 'Grand total: 13.69' are displayed. There is an 'Empty Cart' button and a 'Checkout' button with a shopping cart icon. At the bottom, the footer text reads 'Quality Hats is © QualityHats' and 'Contact Us'.

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This submission is my own work, except for use of resources supplied with the course, information from the public domain where clearly referenced"

COMPANY NAME

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COMPANY NAME

1. INTRODUCTION

Note: Change and/or any additional information are highlighted in Red Color.

Quality Hats is a Web Application developed by using **PHP** with **MySQL**. It is a functional selling web site. The function can be divided into two parts - Shopping and Management.

- Customers on this web site can look ~~and search the hats they like~~, put their favorite hats into a shopping cart. The customers can also see the total price and GST without logging to an account. ~~Like the common approach, we provide a private shopping bag to store a particular account's pending shopping list.~~
- Site administrator can manage the Customer Accounts, Product (hats), Categories, Suppliers and Orders.

The login information and technical specification are as below:

TABLE 1

Website URL:	http://http://dochyper.unitec.ac.nz/mengc06/PHPPractical/
Recommend Browser:	Chrome, IE
Admin User Name / Password:	<u>admin@email.com</u> / P@ssw0rd
Customer User Name / Password:	tester@email.com / P@ssw0rd
Website Folder (on server):	PHPPractical
Project folder:	PHPPractical
Programming Language:	PHP, Javascript, HTML
Database Server / Database Name:	MySQL server / mengc06mysql3

2. CRITIQUE - COMPARISON BETWEEN PHP AND ASP.NET CORE

2.1 Database techniques

ASP.Net and PHP both have rich API for database. However, when developing a Web application with ASP.net MS SQL Server is most preferred. When with PHP, MySQL Server is most preferred. PHP provide APIs to connect to MySQL: mysqli and PDO extension, here in this project, mysqli is used as it supplied with the course, the frequently used functions are:

- To execute the query: `mysqli_query()`
- Storing the data in the numeric indices of the result array `mysqli_fetch_row()`
- Count the number of records `mysqli_num_rows()`
- Using the field names of the result set as keys. `mysqli_fetch_array()`

For ASP.net Core We use Entity Framework to access database. "Entity Framework (EF) is an object-relational mapper that enables .NET developers to work with relational data using domain-specific objects. It eliminates the need for most of the data-access code that developers usually need to write." [1] Since I didn't employ any framework in this project, so I have to do everything that EF did.

2.2 Code Sharing and Reuse

PHP VS ASP.Net Core

- In PHP the most popular techniques I use is `require` and `require_once`, `require_once` can eliminate loading duplicate files.
- DB connect String and GST rate are shared within the `db_connection.php`. (maybe '`appsetting.php`' is a better name for it)
- `Views\Shared\CheckLogin.php` `Views\Shared\AuthorizeAdmin` are shared and load by the corresponding Controller Method to implement Access Control. By this way I can differentiate guest/member/admin. -
- Beside, I use MVC pattern to organize all pages, so at least some View page e.g. `index.php`, `create.php` can be easily share or reuse after a small change.

2.3 Client Techniques

Bootstrap:

No matter PHP or ASP.Net I use Bootstrap to help render a beautiful enough page, the more important thing is that I can let Bootstrap to worry about supporting different size screen.

Passing Parameters to HTML and HTML Flow Control:

ASP.Net:

- we can pass a model or models from Controllers to Views.
- ViewBag.foo, ViewData["foo"] are used to pass parameters from views to views.
- Razor code are used to disassemble the model or parameters sent from controller and render them in the right place.
- Razor can perform simple calculation and flow control (e.g. render a table with multiple rows.).
- HTML Helper is a very efficient way to represent data and collect data via the same snippet of code.

PHP:

- I just use PHP code in both server side as well as client side.
- In controller I put everything the View need in the variables, then require that corresponding view. In the View PHP code can use these variables directly.
- variable can be use in HTML tag such as echo "<td>\$name</td>"; or <td><?php echo \$name; ?></td>
- if/while/switch/foreach etc are provided in PHP to help build a dynamic web application.

2.4 Software architecture and etc.

Open Source:

Both ASP.Net Core and PHP are open source, many developers had supplied excellent frameworks or packages to help people make their job easier.

Strongly Type VS Weekly Type

ASP.Net Core use C# which is strongly type language, people need to define or initiate (so compile can infer its type) it before using it.

While in PHP you do not have to do that. I prefer strongly type language more because it's safer and less unexpected error. And sometimes can make your code more clear.

Compile and interpreted Language

C# as a compile language, people need to compile and rebuild the ASP.Net Core project to make the new code take effect.

In php you can just refresh you browser to see the new effect.

async/await

ASP.Net Core provide asynchronous programming support. while in PHP I did not see that may be need to include some particular package.

3. BUSINESS SPECIFICATION

3.1 Business Roles

3.1.1 Non Registered Customers

Before customer logging, they can browse all the hats or look at the hats in different categories such as MENS, WOMENS, KIDS. ~~They can also search hats by keywords.~~

Using Shopping Cart:

In the shopping cart our customers can add or delete their chosen hats to see the GST and the total price before making a decision.

3.1.2 Registered Members

Create a new account:

If the customers had not logging when they try to check out, they will be redirected to the login page. If they don't have an account yet, they can register as well.

To register member, customers need to supply a valid email address, password and phone numbers.

The first time a customer register, the system will send an confirmation email to his or her email address. Customers must click those links to activate their accounts.

~~Use Shopping Bag:~~

~~Unlike the shopping cart can only be use temporarily, a shopping bag can hold their pending shopping list until they are placed as an order.~~

~~Every registered member has his or her own shopping bag. Also, no matter when or where they login our site, they can retrieve this pending list. When a customer checkout their shopping cart, system implicitly dump these items into his/her shopping bag, and then empty the shopping cart. If there is no any item in the shopping bag previously, the shopping bag is just the same as shopping cart.~~

~~The shopping Bag page also provide the add and delete shortcuts for every item, customers can adjust their wanderlust easily.~~

Place an Order:

After confirming the shopping **Cart**, ~~the next step is to choose a recipient for this item. Customers may buy hats for their family or friend, also these hats could be sent to their house or office. They don't need to alter the address every time. System can record as many recipients as they want. They may asked to create an recipient at the first time, these recipients records can be reused in a dropdown list.~~ The order is created, user is redirected to his/her order list page.

Check Order Status:

By clicking the **checkout** button, order is submitted to administrator. Customers can check their order status in Order Page. There are **three** status: ~~InCart(pending), Placed(Order Placed), InProgress, PreparingToShip,~~ **Submitted**, Shipped and Delivered. When administrator change order status into Shipped or Delivered, system records the exact time of that action. Which gives the customers a sense of the progress.

3.1.3 Administrator

Administrator has all access authority across the site. The pages below are authorized to Administrator user.

Product(Hats) Management:

Administrator can create, edit, delete a hat item here.

Category Management:

Administrator can create, edit, delete a Category for all the hats here.

SUPPLIER Management:

Administrator can create, edit, delete a supplier for all the hats here.

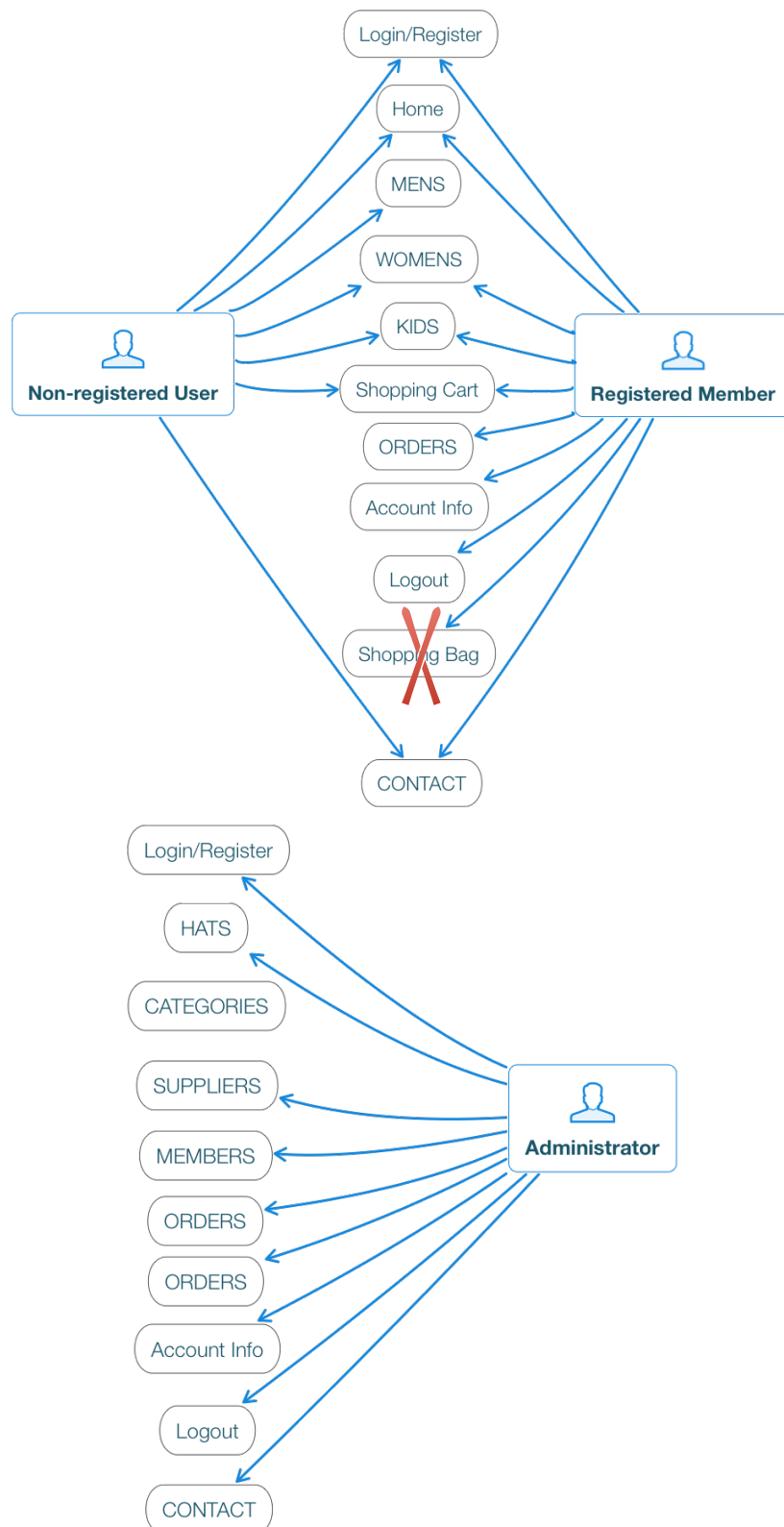
ACCOUNT(Member) Management:

Administrator can create, edit, delete a member account here. The admin user can also disable or enable an account.

Order Management:

Administrator can change the order status here. The admin user can also amend the other info in the order.

The diagrams of business roles for Non-Registered User, Member, Administrator as follow.

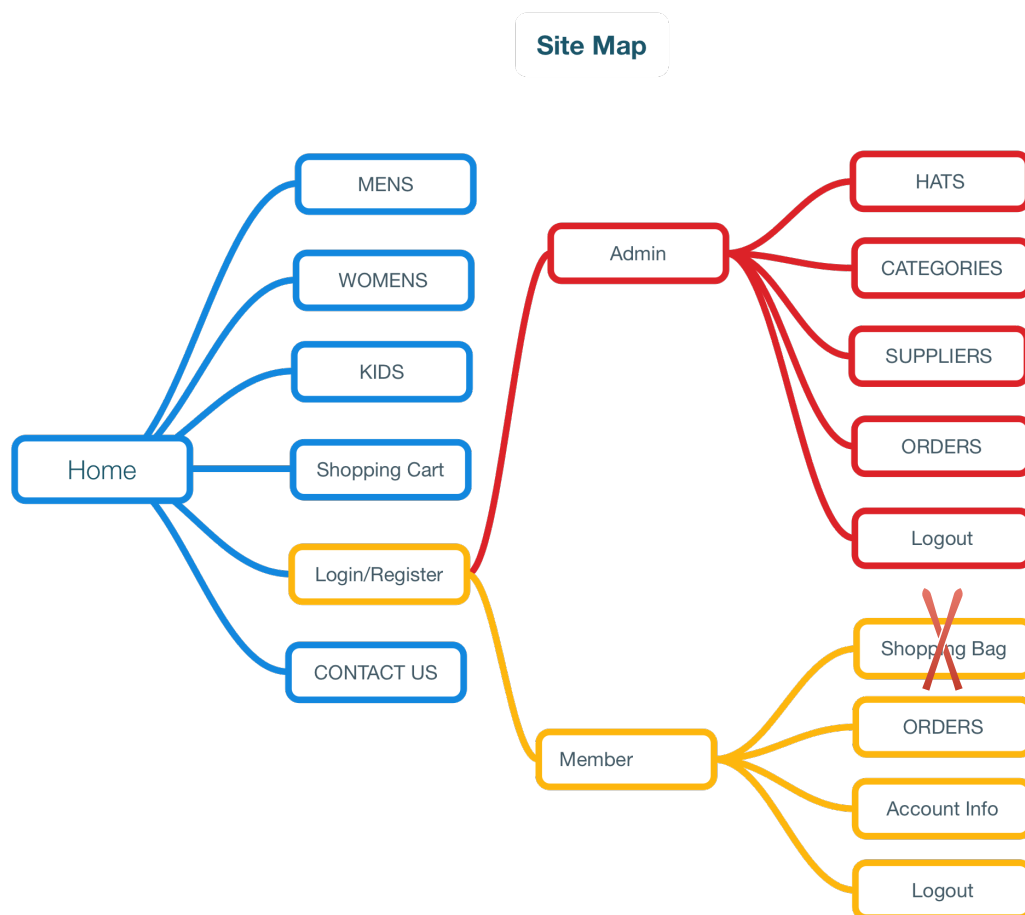


3.2 User Interface Design

3.2.1 Site Map

The site map below illustrates all the page in this site.

The blue pages can be access by any client. Pages in red can only accessed by Administrator while yellow is for members.




Note: Shopping Car is implemented. For timing constrain, Shopping Bag is provide in this PHP version since it's not required.

3.2.2 Customer Page Design


Home:

Features and Technology Application:


- Quality Hats Logo
- Paginating technique is employed for all product list
- Contact us link with meaningful contact details.


Quality Hats
HATS
CATEGORIES
SUPPLIERS
MEMBERS
ORDERS
admin@email.com


All Hats




CHAIN BAND FELT HAT
 The Red Rabbit Wifey Burgundy Snapback Hat. Imported.
 \$42.50




41 HAT
 Cute and casual hat with stitched detailing and a slide adjustment feature on the back. Imported.
 \$14.00




BLACK TWILL HAT
 A comfortable fit with adjustable slider buckle detail and embroidered icon logo. Imported.
 \$23.40



GREEN STAR HAT
 A comfortable fit with adjustable slider buckle detail and USA flag exterior patch. Imported.
 \$22.50



LOGO TWILL HAT
 100% Cotton. Machine wash cold, with like colors. Only non-chlorine bleach
 \$33.90



LOGO STAR HAT
 100% Cotton. Machine wash cold, with like colors. Only non-chlorine bleach
 \$23.99

Previous

Next

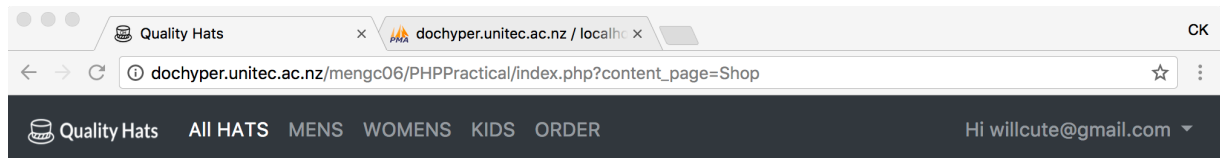
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Contact Us

Shopping Cart:

Features and Technology Application:

- Customers can amend the quantity of their shopping carts or even clear the cart by themselves.
- GST and Total price are changed accompany with the change of items.






41 Star

Cute and casual hat with stitched detailing and a slide adjustment feature on the back.


\$11.90 +



BLACK TWILL HAT

A comfortable fit with adjustable slider buckle detail and embroidered icon logo. Imported.

\$32.00 +



GREEN STAR HAT

A comfortable fit with adjustable slider buckle detail and USA flag exterior patch. Imported.

\$22.50 +

[Prev](#) [Next](#)

Shopping Cart

ID	Name	Description	Price	Quantity	Subtotal
18	41 Star	Cute and casual hat with stitched detailing and a slide adjustment feature on the back.	\$11.90	- 1 +	\$11.9

GST: 1.78

Grand total: 13.69

[Empty Cart](#)

[Checkout](#) 1


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Login Page:

Features and Technology Application:

- Allow Customer login or Administrator login
- Register as a new user: Javascript is use to check:
 1. **If password and confirm password are the same.**
 2. **Password are more than 6 characters and at least 1 number, at least 1 specific symbol ([^a-zA-Z0-9\\!@#\\\$%\\^\\&*\\(\\)_\\+]).**

 Quality Hats All HATS MENS WOMENS KIDS Welcome! ▾

Member / Create

Display Name

Member Name

Email (required, but never shown)

Email

Password

Password

Confirm Password

Confirm Password

Phone Number

Phone Number

Address

Address


Submit

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Order Page:

Features and Technology Application:

- List all orders
- ~~Edit, Delete or View a specific order~~
- **Show change DateTime record in to database.**

Quality Hats

All HATS

MENS

WOMENS

KIDS

ORDER

Hi tester@email.com

Order

ID	Name	Address1	Phone	Price	GST	Total Price	Status	Order Detail
12	foo	Auckland	02133222888	\$22.50	\$11.75	\$11.75	Submitted at 2017-11-09 17:05:53	Detail

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Order Detail Page:

Features and Technology Application:

- After Placing the order, customers can go to the ORDER page to view their order detail including the most important thing: Current Order Status.
- ~~If the Order Status is changed to Shipped or Delivered, the exact Date and Time will shown as well.~~


Quality Hats All HATS MENS WOMENS KIDS HAT CATEGORY SUPPLIER MEMBER ORDER Hi admin@email.com					
OrderDetail					
Name	Description	Price	Quantity	OrderID	
41 Star	Cute and casual hat with stitched detailing and a slide adjustment feature on the back.	11.90	1	11	
BLACK TWILL HAT	A comfortable fit with adjustable slider buckle detail and embroidered icon logo. Imported.	32.00	1	11	
GREEN STAR HAT	A comfortable fit with adjustable slider buckle detail and USA flag exterior patch. Imported.	22.50	2	11	
MENS Hat	A hard style of hat, usually worn by men. Imported.	42.00	4	11	
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3.2.3 Admin Page Design:

Hat Management Page:





Features and Technology Application:


- List, Create, ~~Edit~~, ~~Delete~~ Hats
- View Hat detail


[Quality Hats](#)
[All HATS](#)
[MENS](#)
[WOMENS](#)
[KIDS](#)
[HAT](#)
[CATEGORY](#)
[SUPPLIER](#)
[MEMBER](#)
[ORDER](#)
Hi admin@email.com ▾

Hat

Create New

Image	Name	Price	Category	Supplier	Description
	41 Star	11.90	1	1	Cute and casual hat with stitched detailing and a slide adjustment feature on the back.
	BLACK TWILL HAT	32.00	1	1	A comfortable fit with adjustable slider buckle detail and embroidered icon logo. Imported.
	GREEN STAR HAT	22.50	2	1	A comfortable fit with adjustable slider buckle detail and USA flag exterior patch. Imported.
	LB Hat	45.00	3	1	A type of decorative cap mainly worn in the 19th and early 20th century.


[Quality Hats](#)
[All HATS](#)
[MENS](#)
[WOMENS](#)
[KIDS](#)
[HAT](#)
[CATEGORY](#)
[SUPPLIER](#)
[MEMBER](#)
[ORDER](#)
Hi admin@email.com ▾

Hat / Create

Upload Image

Choose file...

Browse

Hat Name

Description

Price

Category

MENS

Supplier


ADIDAS

Create

Categories Management Page:

Features and Technology Application:

- List all categories
- Create a new category, ~~Edit~~, ~~Delete~~ Category

 Quality Hats

All HATS

MENS

WOMENS

KIDS

HAT

CATEGORY

SUPPLIER

MEMBER

ORDER

Hi admin@email.com ▾

Category

Create New


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[Contact Us](#)

Supplier Management Page:

Features and Technology Application:

- List all suppliers
- Create a new supplier, ~~Edit~~, ~~Delete~~ supplier

 Quality Hats

All HATS

MENS

WOMENS

KIDS

HAT

CATEGORY

SUPPLIER

MEMBER

ORDER

Hi admin@email.com

Supplier

Create New


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[Contact Us](#)

Customer Management Page:

Features and Technology Application:

- List all customers
- Disable or enable an account
- ~~Edit, Delete or View a specific account~~

 Quality Hats All HATS MENS WOMENS KIDS HAT CATEGORY SUPPLIER MEMBER ORDER Hi admin@email.com

Member

Create New

Name	Address	Phone Number	Customer Name	Email Confirmed	Enabled	Activation
admin@email.com	Auckland	2338889	Admin	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Disable
hustmck@163.com	Auckland	2342	Tester	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Disable
willcute@gmail.com	Auckland	2342	test	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Disable
tester@email.com	Auckland	02133222888	foo	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Disable

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[Contact Us](#)

Order Management Page:

Features and Technology Application:

- List all orders
- ~~Edit~~, ~~Delete~~ order
- Change Order Status and automatically save DateTime record in to database.

Quality Hats All HATS MENS WOMENS KIDS HAT CATEGORY SUPPLIER MEMBER ORDER Hi admin@email.com ▾								
Order								
ID	Name	Address1	Phone	Price	GST	Total Price	Status	Order Detail
8	Tester	Auckland	2342	\$11.90	\$3.57	\$3.57	Submitted ▾	Detail
9	Tester	Auckland	2342	\$22.00	\$14.06	\$14.06	Submitted ▾	Detail
10	test	Auckland	2342	\$28.90	\$32.43	\$32.43	Submitted ▾	Detail
11	test	Auckland	2342	\$42.00	\$38.54	\$38.54	Submitted ▾	Detail
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4. DATABASE DESIGN

4.1 Tables

mengc06mysql3 users
ID : int(11)
Email : varchar(255)
PasswordHash : varchar(255)
EmailConfirmed : tinyint(1)
EmailHash : varchar(32)
PhoneNumber : varchar(255)
Username : varchar(255)
Address : varchar(255)
CustomerName : varchar(255)
Enabled : tinyint(1)

mengc06mysql3 hats
ID : int(11)
CategoryID : int(11)
SupplierID : varchar(255)
Name : varchar(255)
Description : varchar(3000)
Price : decimal(10,2)
Image : varchar(255)

mengc06mysql3 categories
ID : int(11)
Name : varchar(255)
Description : varchar(3000)

mengc06mysql3 orders
ID : int(11)
Status : enum('Submitted','Shipped','Delivered')
Firstname : varchar(255)
Lastname : varchar(255)
Address1 : varchar(1000)
Address2 : varchar(1000)
City : varchar(255)
State : varchar(255)
Country : varchar(255)
PostalCode : varchar(255)
Phone : varchar(255)
GST : decimal(10,2)
Price : decimal(10,2)
Total : decimal(10,2)
UserID : int(11)
ModifiedTimestamp : timestamp

mengc06mysql3 orderdetails
ID : int(11)
Quantity : int(11)
UnitPrice : decimal(10,0)
HatID : int(11)
OrderID : int(11)
ModifiedTimestamp : timestamp

mengc06mysql3 suppliers
ID : int(11)
Name : varchar(255)
Description : varchar(3000)

4.2 ERD Diagram

mengc06mysql3 orders	
ID : int(11)	
Status : enum('Submitted','Shipped','Delivered')	
Firstname : varchar(255)	
Lastname : varchar(255)	
Address1 : varchar(1000)	
Address2 : varchar(1000)	
City : varchar(255)	
State : varchar(255)	
Country : varchar(255)	
PostalCode : varchar(255)	
Phone : varchar(255)	
GST : decimal(10,2)	
Price : decimal(10,2)	
Total : decimal(10,2)	
UserID : int(11)	
ModifiedTimestamp : timestamp	

mengc06mysql3 users	
ID : int(11)	
Email : varchar(255)	
PasswordHash : varchar(255)	
EmailConfirmed : tinyint(1)	
EmailHash : varchar(32)	
PhoneNumber : varchar(255)	
Username : varchar(255)	
Address : varchar(255)	
CustomerName : varchar(255)	
Enabled : tinyint(1)	

mengc06mysql3 orderdetails	
ID : int(11)	
Quantity : int(11)	
UnitPrice : decimal(10,0)	
HatID : int(11)	
OrderID : int(11)	
ModifiedTimestamp : timestamp	

mengc06mysql3 hats	
ID : int(11)	
CategoryID : int(11)	
SupplierID : varchar(255)	
Name : varchar(255)	
Description : varchar(3000)	
Price : decimal(10,2)	
Image : varchar(255)	

mengc06mysql3 categories	
ID : int(11)	
Name : varchar(255)	
Description : varchar(3000)	

mengc06mysql3 suppliers	
ID : int(11)	
Name : varchar(255)	
Description : varchar(3000)	

5. SYSTEM DESIGN RATIONALE

5.1 Client Side

- JavaScript
 - To valid the user input
- Bootstrap
 - To develop a responsive, mobile first project on the web.
- PHP
 - To create the view page

5.2 Server Side

- **PHP mysqli**
 - To work with relational data using domain-specific objects
- MVC
 - This architectural pattern help to divide our application into three main groups of components.
- **PHP**
 - **To build the server side applications**

6. TEST PLAN

6.1 Customer Page Test

Registration

No.	Case	Action	Expected Result	As Expected? Or Actual Result
2	Empty Email	Click "Register"	Show "Invalid email format:"	Yes
4	Empty Password	Click "Register"	Show "The password must be more than 6 characters."	Yes
5	Improper Password	Click "Register"	Show "Password not match!"	Yes
6	Empty Confirm password or not the same with Password	Click "Register"	Show "Password not match!"	Yes


Login

No.	Case	Action	Expected Result	As Expected? Or Actual Result
1	Empty Email	Click "Register"	Show "The Email field is required."	Yes
2	Empty Password	Click "Register"	Show "Invalid password or Email not confirmed or Account is disabled!"	Yes
3	Improper Password	Click "Register"	Show "Invalid password or Email not confirmed or Account is disabled!"	Yes

Home

No.	Action	Expected Result	As Expected? Or Actual Result
1	Enter Home Page	Layout shows the same as designed	Yes
2	Click "MENS" navigation link	Navigate to "MENS" Page	Yes
3	Click "WOMENS" navigation link	Navigate to "WOMENS" Page	Yes
4	Click "KIDS" navigation link	Navigate to "KIDS" Page	Yes
5	Click Logo navigation image	Navigate back to "HOME" Page	Yes
6	Click "Register" navigation link	Navigate to "Registration" Page	Yes
7	Click "Login" navigation link	Navigate to "Login" Page	Yes
11	-	Copy right info is shown at the bottom left corner	Yes

Shopping (HOME, MENS, WOMENS, KIDS,)

No.	Case	Action	Expected Result	As Expected? Or Actual Result
1	Pagination: More than 3 6 items in one page	-	Show only 6 items in two rows, the paginating button "Next" is clickable.	Yes
2		Click the "Next" button	Show next 6 items(if exist), the paginating button "Previous" is clickable	
3	Pagination: Less than 3 6 items in one page	-	The paginating buttons "Previous" and "Next" are disabled.	Yes
4	Item	-	Each item has an image, a name, description, price and a select button +	
5	Search	Enter "white" and hit "enter" key	Show the item which its name or description contains keyword "white"	Yes
6	Add to Cart:	Click the  button	The Shopping Cart appears as designed, GST and Total price are shown	Yes
7		Click the  button one more time	The quantity of that specific item add 1	Yes
8		Click another random item's 	Shopping Cart shows more item	Yes
9	Quantity bigger than 1	Click 	Decrease the quantity of the specific item	Yes
10	Quantity is 1	Click 	Delete the row of that item	Yes
11	The last item and Quantity is 1	Click 	Shopping Cart component disappear	Yes
12	-	Click "Clear Cart" button	All items in shopping cart is removed and this component disappear	Yes
13	-	Click Logo	Navigate to Home Page	
14	-	Click "MENS" navigation link	Navigate to "MENS" Page	Yes
15	-	Click "WOMENS" navigation link	Navigate to "WOMENS" Page	Yes
16	-	Click "KIDS" navigation link	Navigate to "KIDS" Page	Yes
17	-	Click "Checkout"	Navigate to "Order" Page	Yes

Member Order Page

No.	Case	Action	Expected Result	As Expected? Or Actual Result
1	-	-	List all the orders belong to customer	Yes
2	-	Select Status	Change the Status to the Selected one	Yes
3	-	Click "Detail"	Show detail of corresponding order, show progress bar	Yes

5.2 Admin Page Test

Do the test for creating Category or Supplier:

Admin Maintenance - Create Category / Supplier

No.	Case	Action	Expected Result	As Expected? Or Actual Result
2	Empty Price	Click "Create"	Show "The Price field is required"	Yes

Do the same test above for creating Hat, and do more as below:

Admin Maintenance - Create Hat

No.	Case	Action	Expected Result	As Expected? Or Actual Result
1	Haven't upload image	Click "Create"	The "Create" button is disabled	Yes
4	Empty Price	Click "Create"	Show "The Price field is required"	Yes

Do the same test above for Maintenance Member Account, and do more as below:

Admin Maintenance - Member List / Edit / Detail / Delete

No.	Case	Action	Expected Result	As Expected? Or Actual Result
1	Account is Enabled	Click "Disable"	The account cannot login anymore	Yes
2	Account is Disabled	Click "Enable"	The account can login again	Yes

