**ISCG7420**

**Web Application Development**

**Assignment 1: ASP.NET**

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# 1. Business Specification

## 1. Original Requirements

There must be a home page.

There must be a Quality Caps logo (image), which links back to the home page.

There must be a login section, allowing a user to login with a provided name and password.

An Administrator can reach the Administration section through the login.

A Customer can also login through the login section.

A Customer may register themselves, and afterward, login to the login section.

After successful registration, the Customer receives an email with their registration details.

After login, a customer will see their details, a list of orders, and the status of each order.

The Administration section must have a Caps Categories subsection.

An Administrator can add Caps Categories through the Caps Categories subsection.

The Administration section must have a Cap Item subsection.

An Administrator can add Cap Items, including selecting a Cap Category and Supplier and providing all required details of the Cap Item.

The Administration section must have an Order subsection.

The Administration section must have a Supplier subsection.

The Administration section must have a Customer subsection.

The Administrator can modify customer details in the Customer subsection.

The Administrator can modify supplier details in the Supplier subsection.

The Administrator can change an Order Status from waiting to shipped in the Order subsection.

The Administrator can disable a customer account.

Upon logging in with a disabled account, the Customer receives a notice that the account is disabled.

A Shopping cart is shown on the site, to Customers.

When a Cap Item is added to the shopping cart, all details of the Cap Item are shown in the cart, along with the colour, quantity and total price.

Adding the same Cap Item repeatedly will update the existing item in the Shopping Cart.

The Shopping Cart has a Checkout link.

If a Customer is not logged in, then when clicking Checkout, they receive a notice that login is required, or they can register then login.

If a Customer is logged in, then when completing Checkout, their Order is recorded to the database. A notice is given that the order has been completed.

The Shopping Cart and Checkout must show the GST and total cost.

A Category has a name.

An Administrator has a login name and password.

A Customer has a Name, Address, Home contact number and/or work number and/or mobile number, an email address, login name and password.

An Order has a customer, Order Items and a status.

An Order Item associates an order with a Cap, a Colour and a Quantity.

A Cap has a Name, Price, Description, Image to show, a Category, a Supplier, and has one or more colours.

A Colour has a name.

A Supplier has an Email Address, Name, Home Number, Work Number, and Mobile Number.

## 2. Expanded Requirements

After registration, the Customer will still need to log in.

When not logged in, a customer cannot click Checkout from the shopping Cart.

Whether or not they are logged in, the Customer may select a category to view cap items.

Whether or not they are logged in, the Customer may select a shown cap item to view the cap item details.

A customer can add a Cap Item to the Shopping cart while viewing the Cap Item details.

A customer can remove a Cap Item from the Shopping cart while viewing cap items or a cap item details.

A customer can select the desired colour of a Cap Item while viewing the Item Details, before adding it to the cart.

A customer can select the desired amount of a Cap Item while viewing the Item Details, before adding it to the cart.

A customer can remove items from the shopping cart.

At Checkout, a customer has the opportunity to modify the quantity of any and all Cap Items.

At Checkout, a customer has the opportunity to modify the Colour of any and all Cap Items.

At Checkout, a customer has the opportunity to remove any Cap Item in the cart.

A Contact page can be visited from the home page.

The Administrator can add new Suppliers.

The Administrator can add new Colours.

The Administrator can modify existing Colours.

The Administrator can add new or modify existing Categories.

Orders cannot be deleted.

Products cannot be deleted.

Customers cannot be deleted, only disabled.

Suppliers cannot be deleted.

Colours cannot be deleted.

Categories cannot be deleted.

Products can only be added or changed if there is at least one supplier and at least one category.­

## 3. Site URL

The Site is to be located at the following URL:

http://dochyper.unitec.ac.nz/AskewR04/asp\_assignment

# 2. User Interface Design

## 1. Site Map



## 

## 2. Wire-Frames

Note that all Wireframes are approximate prototypes – The final web forms may have minor differences in appearance.

### 1. Home Page



The black and white theme (except for colours in pictures) was decided for readability for users of all ages and to avoid colour-blind issues. It also fits in with the Art Deco style of the logo and section headings.

The header and footer technique (Logo and top menu as header, Copyright bar as footer) will be a template common to all public pages.

The login menu is part of the header menu, and thus is visible at all times. So a user can login at any time. When logged in the menu is replaced with the user’s name and a log out option.

### 

### 2. Product Detail



When a product is viewed, the customer has the opportunity to choose a colour, and a quantity. Note that the customer can also change the colour of a cap present in the basket.

### 3. Registration



### 4. Contact page



### 5. Checkout



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### 6. Post Checkout / Profile Page

This page shows a profile of the customer information, and a list of orders (Paginated) on record for this customer.

When a new order is made, the customer is redirected back to the Profile page, with a notice that the order has been placed and will be visible in the list of orders.

A wireframe is not available due to a lack of time.

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### 7. Customer Login



If the login is rejected, or the account is disabled, a notice appears at the bottom of the middle section.

### 8. Customer Post-Login

After logging in, The customer is redirected to their profile page.

### 9. Administrator Administration



### 10. Category Administration

### 

All administration forms consist of a menu of entities at the top (category, caps, suppliers etc.), a sidebar of current items for that entity, and a main area where details of one item can be viewed, and changes made.

Most items support adding new entries. Adding customers is not supported, as normally a customer adds themselves by registration. Orders are not added as the customer normally completes new orders.

Most items support modification.

### 11. Supplier Administration



### 12. Customer Administration



### 13. Caps Administration



### 14. Orders Administration



### 15. Colours Administration



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### 3. Database Design

## 1. ERD

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# 4. System Design Rationale

## 1. Client Side Techniques

HTML / CSS / JavaScript will be used. Where possible, templates will be created using these technologies for content which is static, or event-driven but without database or server interaction. This will have faster performance and web-form response.

JavaScript will be used for some data validation too.

## 2. Server Side Techniques

Some parts of web-form responses will require information from the database. For this, ASP.NET sections and server controls will be used within web-forms. Server controls defined in the markup will be preferred over C# coding, for efficiency and ease of maintenance.

As Server-side updates can be slow, AJAX will be used to only update parts of web-forms, instead of entire web-forms. This will be done using UpdatePanels, with Conditional Triggers and ContentTemplates.

Validation controls will be used in Administration forms to validate data entry. This will be slower, but valid data entry is more important than Response time for the Administration section.

Some information which is commonly to all pages (such as the percent cost of GST) will be refactored into common access Resources (e.g. shared static classes).

Some information will be restricted behind protected sections, for security reasons, or will require the hashing or unhashing of sensitive information. A shared Security resource will be available to manage tasks such as making salted hashes using cryptographic techniques, and produce randomised data if required. The OWIN resources will be used to sign in a user upon request, and allow access to protected sections of the site. OWIN Claims will be used to distinguish different user roles (such as an administrator and a customer) and prevent authenticated users with limited privileges from accessing pages they should not have access to, while going about their business.

# 5. Test Plan with Results

|  |  |  |  |
| --- | --- | --- | --- |
| Test | Actions | Expected outcome | Actual Outcome |
| Initial Site Visit. | Enter the site URL into the browser address bar and press enter. | The home page appears. | The home page appears. |
|  | Close all tabs to the site. | - | - |
|  |  |  |  |
| Home Page, Top Menu, Visitor. | Enter the site URL into the browser address bar and press enter. | The home page appears. | The home page appears. |
|  | Examine the Top Menu. | Top Menu shows the logo at left, the links Contact Us and Register, a grey Login link, and “Greetings Visitor!” | Top Menu shows what is described in expected outcome. |
|  | Click “Contact Us” | Contact Us page is shown. | Contact Us page is shown. |
|  | Click “Register” | Register page is shown. | Register page is shown. |
|  | Click “Login” | Login page is shown. | Login page is shown. |
|  | Close all tabs to the site. | - | - |
|  |  |  |  |
| Home page, Categories Section. | Enter the site URL into the browser address bar and press enter. | The home page appears.  The Categories section shows 3 categories, including Business Caps, Women’s Caps and Men’s Caps. | The home page appears. |
|  | Click the picture for the category “Business Caps” in the Categories section at left. | The top of the Products section at centre, says Business Caps. | The top of the Products section at centre, says Business Caps. |
|  | Click the picture for the category “Women’s Caps” in the Categories section at left. | The top of the Products section at centre, says Women’s Caps. | The top of the Products section at centre, says Women’s Caps. |
|  | Click the picture for the category “Men’s Caps” in the Categories section at left. | The top of the Products section at centre, says Men’s Caps. | The top of the Products section at centre, says Men’s Caps. |
|  | Click the “next” button at the bottom of the Category section. | New categories are shown in the categories section, including Children’s Caps | New categories are shown in the categories section, including Children’s Caps |
|  | Click the picture for the category “Children’s Caps” in the Categories section at left. | The top of the Products section at centre, says Children’s Caps. | The top of the Products section at centre, says Children’s Caps. |
|  | Click the “previous” button at the bottom of the Category section. | The Categories section shows 3 categories, including Business Caps, Women’s Caps and Men’s Caps. | Matches expected outcome. |
|  | Close all tabs to the site. | - | - |
|  |  |  |  |
| Home Page, Products Section. | Enter the site URL into the browser address bar and press enter. | The home page appears. | The home page appears. |
|  | Click the picture for the category “Men’s Caps” in the Categories section at left. | The top of the Products section at centre, says Men’s Caps. A Grid of caps is shown. Page number is 1. | Matches expected outcome. |
|  | Click the picture for the category “Dour Peak” in the Products section at centre. | New Section appears with following details: Dour Peak, $20.40. | Matches expected outcome. |
|  | Click Return. | The previous Grid of caps is shown again. | Matches expected outcome. |
|  | Click the picture for the product “Dour Squat” in the Products section at centre. | Section appears with following details: Dour Squat, $14.70. | Matches expected outcome. |
|  | Click Return. | The previous Grid of caps is shown again. | Matches expected outcome. |
|  | Click “Next” at the bottom of the Products section. | A new Grid of caps is shown. Page number is now 2. | Matches expected outcome. |
|  | Click the picture for the product “Tall Trilby” in the Products section at centre. | Section appears with following details: Tall Trilby, $14.50. | Matches expected outcome. |
|  | Change the Quantity to 2. | The Quantity textbox now contains 2. | The Quantity textbox now contains 2. |
|  | Click the colour combo box, and change the Colour to green. | The colour combo box now contains “Green” | The colour combo box now contains “Green” |
|  | Click “Add To Basket”. | A new item appears in the shopping cart:  “Tall Trilby  $14.50 Green X 2” | Matches expected outcome. |
|  | Click Return. | The previous Grid of caps is shown again. | The previous Grid of caps is shown again. |
|  | Click “Previous” at bottom of Products section. | A new Grid of caps is shown. Page number is now 1. | Matches expected outcome. |
|  | Click on the category “Men’s Caps” in the category section. | A new Grid of caps is shown. Page number is now 1. The top left cap is called “Top flex”. | Matches expected outcome. |
|  | Close all tabs to the site. | - | - |
|  |  |  |  |
| Home Page, Shopping Cart. | Enter the site URL into the browser address bar and press enter. | The home page appears. | The home page appears. |
|  | Click on the picture “Women’s Caps” in the Category section. | A new Grid of caps is shown. Page number is now 1. A cap is shown called “Dour Flex”. | Matches expected outcome. |
|  | Click on the picture “Dour Flex” in the products section. | Section appears with following details: Dour Flex $24.50. | Matches expected outcome. |
|  | Change the colour to “red”. | Colour combo box now says “red”. | Matches expected outcome. |
|  | Change the quantity to “1”. | Quantity textbox now says “1”. | Matches expected outcome. |
|  | Click add to basket. | New shopping cart item appears. Details: “ Dour Flex  $24.50 Red X 1”  Total number of shopping cart entries is 1. | Matches expected outcome. |
|  | Change the colour to “blue”. | Colour combo box now says “blue”. | Matches expected outcome. |
|  | Change the quantity to “2”. | Quantity textbox now says “2”. | Matches expected outcome. |
|  | Click add to basket. | New shopping cart item appears. Details: “ Dour Flex  $24.50 Blue X 2”  Total number of shopping cart entries is 2. | Matches expected outcome. |
|  | Change the colour to “red”. | Colour combo box now says “red”. | Matches expected outcome. |
|  | Change the quantity to “1”. | Quantity textbox now says “1”. | Matches expected outcome. |
|  | Click add to basket. | The shopping cart item with “Dour Flex, Red X1”, changes quantity to “X 2”.  Total number of shopping cart entries is 2. | Matches expected outcome. |
|  | Click the “X” next to Shopping Cart entry “Dour Flex Blue X 2” in the shopping basket section. | Shopping Cart entry “Dour Flex Blue X 2” disappears.  Total number of shopping cart entries is now 1. | Matches expected outcome. |
|  | Click “Clear” at the bottom of the shopping basket. | All shopping cart entries disappear. Cart says “Your Shopping Cart is empty.“  Total number of shopping cart entries is now 0. | Matches expected outcome. |
|  | Click Cancel. | The previous Grid of caps is shown again. | Matches expected outcome. |
|  | Click “Next” at bottom of the categories section. | A new set of categories are shown. | Matches expected Outcome. |
|  | Click on the picture “Children’s Caps” in the Category section. | A new Grid of caps is shown. Page number is now 1. | Matches expected outcome. |
|  | Click the cap “Top Pounder”. | Section appears with following details: Top Pounder, $27.50. | Matches expected outcome. |
|  | Change the colour to “white”. | Colour combo box now says “white”. | Matches expected outcome. |
|  | Click add to basket. | New shopping cart item appears. Details: “Top Pounder, $27.50  White X 1”  Total number of shopping cart entries is 1.  1 Shopping Cart Entries is visible.  The page numbers above the cart totals reads “Previous 1 Next” | Matches expected outcome. |
|  | Change the colour to “green”. | Colour combo box now says “green”. | Matches expected outcome. |
|  | Click add to basket. | New shopping cart item appears. Details: “Top Pounder, $27.50  Green X 1”  Total number of shopping cart entries is 2.  2 Shopping Cart Entries are visible.  The page numbers above the cart is unchanged. | Matches expected outcome. |
|  | Change the colour to “yellow”. | Colour combo box now says “Yellow”. | Matches expected outcome. |
|  | Click add to basket. | New shopping cart item appears. Details: “Top Pounder, $27.50  Yellow X 1”  Total number of shopping cart entries is 3.  3 Shopping Cart Entries are visible.  The page numbers above the cart is unchanged. | Matches expected outcome. |
|  | Change the colour to “pink”. | Colour combo box now says “Pink”. | Matches expected outcome. |
|  | Click add to basket. | New shopping cart item appears. Details: “Top Pounder, $27.50  Pink X 1”  Total number of shopping cart entries is 4.  4 Shopping Cart Entries are visible.  The page numbers above the cart is unchanged. | Matches expected outcome. |
|  | Change the colour to “orange”. | Colour combo box now says “Orange”. | Matches expected outcome. |
|  | Click add to basket. | Total number of shopping cart entries is 5.  4 Shopping Cart Entries are visible.  The page numbers above the cart totals have changed to “Previous 1 2 Next” | Matches expected outcome. |
|  | Click “next” at bottom of the shopping basket. | 1 Shopping Cart Entries is visible.  The details of this one item are:  “Top Pounder, $27.50  Orange X 1” | Matches expected outcome. |
|  | Click “previous” at bottom of the shopping basket. | The previous 4 Shopping Cart Entries are visible. | Matches expected outcome. |
|  | Verify the subtotal in the shopping basket. | Subtotal is $137.50 | Matches expected outcome. |
|  | Verify the gst total in the shopping basket. | GST is 15% of the Subtotal. This is understood to be $20.63 | Matches expected outcome. |
|  | Verify the full total in the shopping basket. | This should match sum of subtotal and gst total ($158.13) | Matches expected outcome. |
|  | Click Clear, at bottom of shopping basket. | The shopping cart is empty. | Matches expected outcome. |
|  | Close all tabs to the site. | - | - |
|  |  |  |  |
| Home Page, Logo. | Enter the site URL into the browser address bar and press enter. | The home page appears. | The home page appears. |
|  | Click the “contact Us” link. | The Contact Us page appears. | The Contact Us page appears. |
|  | Click the Logo. | The home page appears. | The home page appears. |
|  | Close all tabs to the site. | - | - |
|  |  |  |  |
| Visitor Restrictions. | Enter the site URL into the browser address bar and press enter. | The home page appears. | The home page appears. |
|  | Verify Checkout is not enabled. | There is no checkout button, and instead it says “Login to Complete Order” | Matches expected outcome. |
|  | Enter the URL “http://dochyper.unitec.ac.nz/AskewR04/asp\_assignment/Customer/” in the address bar and press enter. | The Login page appears. The Url says “http://dochyper.unitec.ac.nz/AskewR04/asp\_assignment/Login?ReturnUrl=%2FAskewR04%2Fasp\_assignment%2FCustomer%2F” | Matches expected outcome. |
|  | Close all tabs to the site. | - | - |
|  |  |  |  |
| Contact Us Page. | Enter the site URL into the browser address bar and press enter. | The home page appears. | The home page appears. |
|  | Click Contact Us link in top menu. | The contact Us page appears. | The contact Us page appears. |
|  | Close all tabs to the site. | - | - |
|  |  |  |  |
| Registration. | Enter the site URL into the browser address bar and press enter. | The home page appears. | The home page appears. |
|  | Click the link “Register” in the top menu. | The Registration page appears. | The Registration page appears. |
|  | Click Register | All fields have stars beside them.  Error Messages: At least one contact number is required. | Matches expected outcome |
|  | Type “Simon!” in the First Name field. | The first name field contaions “Simon!” | Matches expected outcome |
|  | Click Register | All fields except first name have stars beside them.  Error Messages:  First and Last Name should only have letters. At least one contact number is required. | Matches expected outcome |
|  | Change First Name field to “Simon” | First name field contains “Simon” | Matches expected outcome |
|  | Type “Joe” in the last Name field. | Last name field contains “Joe” | Matches expected outcome |
|  | Type “AskewR04@myunitec.ac.nz” in the email field. | Email field contains “AskewR04@myunitec.ac.nz” | Matches expected outcome |
|  | Type “Customer111” in the login field. | Login field contains “Customer111” | Matches expected outcome |
|  | Type “123456” in the password field. | Password field contains “123456” | Matches expected outcome |
|  | Type “Carly Road” in the Street Address field. | Street Address field contains “Carly Road” | Matches expected outcome |
|  | Type “Mt Albert” in the Suburb field. | Suburb field contains “Mt Albert” | Matches expected outcome |
|  | Type “Auckland” in the City field. | City field contains “Auckland” | Matches expected outcome |
|  | Click Register | Contact number fields have stars beside them.  Error Messages: This Email is already in use. This Login is already in use. Password minimum length is 10 characters. At least one contact number is required. Street address is not valid. Valid examples are 123a Simpson St, or 5545 Carolina Ave. | Matches expected outcome |
|  | Change Email. Use an email you can access at this time. | Email field has been changed. | Email field has been changed. |
|  | Change Login to “CustomerTesting” | Login field changed to “CustomerTesting” | Matches expected outcome |
|  | Change password to “ThisIsAPassword” | Password field changed to “ThisIsAPassword” | Matches expected outcome |
|  | Change Street Address to “123 Carly Road” | Street Address changed to “123 Carly Road” | Matches expected outcome |
|  | Click Register | Error message: At least one contact number is required. | Matches expected outcome |
|  | Type “44888899999” into Home Contact Number | - | - |
|  | Type “5500111” into Work Contact Number | - | - |
|  | Type “33355577777” into Mobile Contact Number | - | - |
|  | Click Register | Error Messages: Home and work numbers should be in a valid local landline format. Examples include 09555444, 0733337777. Mobile Numbers should be in a valid mobile number format, in international or local form. | Matches expected outcome |
|  | Change Mobile Number to “0220556666” | - | - |
|  | Remove the Work Number | - | - |
|  | Change home Number to “095554444” | - | - |
|  | Click Register | Login page appears.  Message is shown: Registration Successful. Please check your email for your registration notice. | Matches expected outcome |
|  | Verify Email was Received. | Email was received, containing login and password, contact numbers and address. | Matches expected outcome |
|  | Close all tabs to the site. | - | - |
|  |  |  |  |
| Login, Customer. | Enter the site URL into the browser address bar and press enter. | The home page appears. | The home page appears. |
|  | Click “Login” at top menu. | The login page appears. | The login page appears. |
|  | Type “Customer111” into login textbox. Type “passwordpassword” into password textbox. | Login control shows “Customer111” and “passwordpassword” in relevant textboxes. | Login control matches the expected outcome. |
|  | Click Login button. | Profile page appears. The first and last names are “Harry” and “Bloggs”. | Profile page appears. First and last names match what is expected. |
|  | Examine the Top Menu. | Top Menu shows the logo at left, the links Contact Us and Profile, a grey Logout link, and “You are logged in as Customer111.” | Top menu matches the expected outcome. |
|  | Click Logout button. | The home Page shows. The top menu says “Greetings Visitor!” | The home page shows as expected. |
|  | Close all tabs to the site. | - | - |
|  |  |  |  |
| Customer, Edit Profile. | Enter the site URL into the browser address bar and press enter. | The home page appears. | The home page appears. |
|  | Click “Login” at top menu. | The login page appears. | The login page appears. |
|  | Type “Customer111” into login textbox. Type “passwordpassword” into password textbox. | Login control shows “Customer111” and “passwordpassword” in relevant textboxes. | Login control matches the expected outcome. |
|  | Click Login button. | Profile page appears. The first and last names are “Harry” and “Bloggs”. | Profile page appears. First and last names match what is expected. |
|  | Click Edit Customer Profile link, in middle of page. | Edit Profile page appears. | Edit Profile page appears. |
|  | Change the first name to “Jennifer…” | The first name textbox contains “Jennifer…” | Matches expected outcome |
|  | Click Reset | All textboxes change back to their original contents.  The first name textbox no longer contains “Jennifer…” | Matches expected outcome |
|  | Change the Work Number to “1174443332” | the Work Number textbox contains “1174443332” | Matches expected outcome |
|  | Click Update | Error message appears: Home and work numbers should be in a valid local landline format. Examples include 09555444, 0733337777. | Matches expected outcome |
|  | Change the Work Number to “074443332” | the Work Number textbox contains “074443332” | Matches expected outcome |
|  | Click Update | The profile page reappears.  The work number has changed. | Matches expected outcome |
|  | Click Logout button. | The home Page shows. The top menu says “Greetings Visitor!” | The home page shows as expected. |
|  | Close all tabs to the site. | - | - |
|  |  |  |  |
| Customer, Checkout. | Enter the site URL into the browser address bar and press enter. | The home page appears. | The home page appears. |
|  | Click “Login” at top menu. | The login page appears. | The login page appears. |
|  | Type “Customer111” into login textbox. Type “passwordpassword” into password textbox. | Login control shows “Customer111” and “passwordpassword” in relevant textboxes. | Login control matches the expected outcome. |
|  | Click Login button. | Profile page appears. The first and last names are “Harry” and “Bloggs”. | Profile page appears. First and last names match what is expected. |
|  | Click Logo. | Home page appears. | Home page appears |
|  | Click “Men’s Caps” picture under Categories. | A new Grid of caps is shown. Page number is now 1. | Matches expected outcome |
|  | Click “Bold Squat” Picture. | Bold Squat cap details are shown | Matches expected outcome |
|  | Change Quantity to 2 | - | Matches expected outcome |
|  | Change Colour to red | - | Matches expected outcome |
|  | Click Add to Basket | New item appears in shopping cart: Bold Squat $14.60  Red X 2 | Matches expected outcome |
|  | Click Return | - | Matches expected outcome |
|  | Click Next at bottom of the caps section, at centre | New caps are listed in the caps section. | Matches expected outcome |
|  | Click “Tall Peak” Picture. | Tall Peak details are shown | Matches expected outcome |
|  | Change Quantity to 3 | - | Matches expected outcome |
|  | Change Colour to pink | - | Matches expected outcome |
|  | Click Add to Basket | New item appears in shopping cart: Tall Peak $18.70  Blue X 3 | Matches expected outcome |
|  | Click Checkout | Checkout page appears | Matches expected outcome |
|  | Within Entry “Bold Squat, Red”, click edit. | Entry “Bold Squat, Red”, is in edit mode.  The quantity and colour controls are now editable. | Matches expected outcome |
|  | Change Colour to green. | Entry is changed to “Bold Squat, Green” | Matches expected outcome |
|  | Click Save. | Entry “Bold Squat, green”, is no longer in edit mode.  The colour is green. | Matches expected outcome |
|  | Within Entry “Tall Peak, Pink”, click edit. | Entry “Tall Peak, Pink”, is in edit mode. | Matches expected outcome |
|  | Change Quantity to 5. | Quantity textbox now contains 5 | Matches expected outcome |
|  | Click Undo. | Entry “Tall Peak, Pink “ is no longer in edit mode.  Quantity textbox contains 3. | Matches expected outcome |
|  | Within Entry “Bold Squat, Green”, click the red “X”. | Entry “Bold Squat, Green” disappears. | Matches expected outcome |
|  | Verify Checkout state. | Subtotal should be $56.10.  GST should be approx. $8.41.  Total cost is approx. $64.52. | Matches expected outcome |
|  | Click “Complete Order”. | The profile page appears.  Message: “Your order has been completed”.  The order will be visible in the Orders table.  The order should have today’s date.  The order status should be waiting.  The order Qty should be 3  The order Cost should be $64.52 | Matches expected outcome |
|  | Click Logout button. | The home Page shows. The top menu says “Greetings Visitor!” | The home page shows as expected. |
|  |  |  |  |
| Login as Administrator. | Enter the site URL into the browser address bar and press enter. | The home page appears. | The home page appears. |
|  | Click “Login” at top menu. | The login page appears. | The login page appears. |
|  | Type “Admin\_Testing” into login textbox. Type “passwordpassword” into password textbox. | Login control shows “Admin\_Testing” and “passwordpassword” in relevant textboxes. | Login control matches the expected outcome. |
|  | Click Login button. | Default Admin page appears. | Matches expected outcome |
|  | Examine the Top Menu. | Top Menu shows the logo at left, several links including “Manage Images, and “Current Admin: Admin\_Testing”. | Matches expected outcome |
|  | Click Logout button. | The home Page shows. The top menu says “Greetings Visitor!” | The home page shows as expected. |
|  |  |  |  |
| Add new Category. | Enter the site URL into the browser address bar and press enter. | The home page appears. | The home page appears. |
|  | Click “Login” at top menu. | The login page appears. | The login page appears. |
|  | Type “Admin\_Testing” into login textbox. Type “passwordpassword” into password textbox. | Login control shows “Admin\_Testing” and “passwordpassword” in relevant textboxes. | Login control matches the expected outcome. |
|  | Click Login button. | Default Admin page appears. | Matches expected outcome |
|  | Click Categories in the top menu. | Categories page appears. | Categories page appears. |
|  | Click “Add new …” at top right. | Message: “Ready to Add . Please fill out required fields”. | Matches expected outcome |
|  | Type “Mock Caps” in the Name field. | - | - |
|  | Click “Save Changes” | A new category “Mock Caps” appears in the list at left.  SUCCESS message appears. | Matches expected outcome |
|  | Click Logout button. | The home Page shows. The top menu says “Greetings Visitor!” | The home page shows as expected. |
|  |  |  |  |
| Modify Existing Category. | Enter the site URL into the browser address bar and press enter. | The home page appears. | The home page appears. |
|  | Click “Login” at top menu. | The login page appears. | The login page appears. |
|  | Type “Admin\_Testing” into login textbox. Type “passwordpassword” into password textbox. | Login control shows “Admin\_Testing” and “passwordpassword” in relevant textboxes. | Login control matches the expected outcome. |
|  | Click Login button. | Default Admin page appears. | Matches expected outcome |
|  | Click Categories in the top menu. | Categories page appears. | Categories page appears. |
|  | Click “Business Caps” in list at left. | Message: “Item Loaded”. | Matches expected outcome |
|  | Type “Casual Caps” in the Name field. | - | - |
|  | Click “Save Changes” | category “Business Caps” changes to “Casual Caps” appears in the list at left.  SUCCESS message appears. | Matches expected outcome |
|  | Click Logout button. | The home Page shows. The top menu says “Greetings Visitor!” | The home page shows as expected. |
|  |  |  |  |
| Add new supplier. | Enter the site URL into the browser address bar and press enter. | The home page appears. | The home page appears. |
|  | Click “Login” at top menu. | The login page appears. | The login page appears. |
|  | Type “Admin\_Testing” into login textbox. Type “passwordpassword” into password textbox. | Login control shows “Admin\_Testing” and “passwordpassword” in relevant textboxes. | Login control matches the expected outcome. |
|  | Click Login button. | Default Admin page appears. | Matches expected outcome |
|  | Click Suppliers in the top menu. | Supplier page appears. | Supplier page appears. |
|  | Click “Add new Supplier …” at top right. | Message: “Ready to Add Supplier . Please fill out required fields”. | Matches expected outcome. |
|  | Enter “Walton Textiles” in Supplier Name | - | - |
|  | Enter an email in the Email field. | - | - |
|  | Type “094443322” in the work number field. | - | - |
|  | Type “0250559991” in the mobile number field. | - | - |
|  | Click “Save Changes” | A new supplier “Walton Textiles” appears in the list at left. | Matches expected outcome |
|  | Click Logout button. | The home Page shows. The top menu says “Greetings Visitor!” | The home page shows as expected. |
|  |  |  |  |
| Modify existing supplier. | Enter the site URL into the browser address bar and press enter. | The home page appears. | The home page appears. |
|  | Click “Login” at top menu. | The login page appears. | The login page appears. |
|  | Type “Admin\_Testing” into login textbox. Type “passwordpassword” into password textbox. | Login control shows “Admin\_Testing” and “passwordpassword” in relevant textboxes. | Login control matches the expected outcome. |
|  | Click Login button. | Default Admin page appears. | Matches expected outcome |
|  | Click Suppliers in the top menu. | Suppliers page appears. | Supplier page appears. |
|  | Click “Escobar Fabrics” at right | Message: “Item loaded”. | Matches expected outcome |
|  | Change Name to “Sereni Fabrics” | - | - |
|  | Change Mobile Number to “0220774444” | - | - |
|  | Click “Save Changes” | supplier “Escobar Fabrics” changes to “Walton Fabrics”. | Matches expected outcome |
|  | Click Logout button. | The home Page shows. The top menu says “Greetings Visitor!” | The home page shows as expected. |
|  |  |  |  |
| Add new cap. | Enter the site URL into the browser address bar and press enter. | The home page appears. | The home page appears. |
|  | Click “Login” at top menu. | The login page appears. | The login page appears. |
|  | Type “Admin\_Testing” into login textbox. Type “passwordpassword” into password textbox. | Login control shows “Admin\_Testing” and “passwordpassword” in relevant textboxes. | Login control matches the expected outcome. |
|  | Click Login button. | Default Admin page appears. | Matches expected outcome |
|  | Click Products in the top menu. | Caps page appears. | Caps page appears. |
|  | Click “Add new Cap …” at top right. | Message: “Ready to Add Cap . Please fill out required fields”. (May have to scroll down to see it). | Matches expected outcome |
|  | Change Category to Men’s Caps | - | - |
|  | Change Supplier to Alto Monte Fashion | - | - |
|  | Change Name to “Elevated Beckett” | - | - |
|  | Change Price to 20.00 | - | - |
|  | Change Description to “Lorum Ipsum Sum Ergo Proxy Cowboy Bebop Neon Genesis” | - | - |
|  | Change image to “best-caps-20.jpg” | (the image at lower right changes to a picture of a cap) | Matches expected outcome. |
|  | Scroll down and Click “Save Changes” | New cap appears in list at left: “Elevated Beckett” | Matches expected outcome. |
|  | Click Logout button. | The home Page shows. The top menu says “Greetings Visitor!” | The home page shows as expected. |
|  |  |  |  |
| Modify existing cap. | Enter the site URL into the browser address bar and press enter. | The home page appears. | The home page appears. |
|  | Click “Login” at top menu. | The login page appears. | The login page appears. |
|  | Type “Admin\_Testing” into login textbox. Type “passwordpassword” into password textbox. | Login control shows “Admin\_Testing” and “passwordpassword” in relevant textboxes. | Login control matches the expected outcome. |
|  | Click Login button. | Default Admin page appears. | Matches expected outcome |
|  | Click Products in the top menu. | Caps page appears. | Caps page appears. |
|  | Find and  Click side Flex in list at left. (you may have to scroll down). | Message: Item Loaded  (Blue cap image appears.) | Matches expected outcome |
|  | Change supplier to Alto Monte Fashion | - | - |
|  | Change last part of description from “never let you wear it again.” To “never let her borrow it again.” | - | - |
|  | Change price to 25.20 | - | - |
|  | Change name to “johnny flex” (note the small j) | - | - |
|  | Scroll down and Click “Save Changes” | Cap “Side flex” in list at left changes to “johnny flex” | Matches expected outcome |
|  | Click Logout button. | The home Page shows. The top menu says “Greetings Visitor!” | The home page shows as expected. |
|  |  |  |  |
| Modify existing customer. | Enter the site URL into the browser address bar and press enter. | The home page appears. | The home page appears. |
|  | Click “Login” at top menu. | The login page appears. | The login page appears. |
|  | Type “Admin\_Testing” into login textbox. Type “passwordpassword” into password textbox. | Login control shows “Admin\_Testing” and “passwordpassword” in relevant textboxes. | Login control matches the expected outcome. |
|  | Click Login button. | Default Admin page appears. | Matches expected outcome |
|  | Click Customers in the top menu. | Customers page appears. | Customers page appears. |
|  | Click “Customer222” from list at left. | Message (Scroll down): “Item, Maude Shaun Loaded.” | Matches expected outcome |
|  | Change work number to 063344777 | - | - |
|  | Change email to an email you can access. | - | - |
|  | Click save changes | SUCCESS message appears at bottom (scroll down). | Matches expected outcome |
|  | Click Change Password. | Password field is enabled | Matches expected outcome |
|  | Change password field to a “I\_expect\_an\_email” | - | - |
|  | Click Save Changes. | SUCCESS message appears at bottom (scroll down).   Password field is now blank and disabled | Matches expected outcome |
|  | Check the email you entered into the email field | An email was received. “Quality Caps, change in customer details  “  It mentions login “Customer222” and the new password that was entered. | Matches expected outcome |
|  | Click Logout button. | The home Page shows. The top menu says “Greetings Visitor!” | The home page shows as expected. |
|  |  |  |  |
| Disable existing customer. | Enter the site URL into the browser address bar and press enter. | The home page appears. | The home page appears. |
|  | Click “Login” at top menu. | The login page appears. | The login page appears. |
|  | Type “Admin\_Testing” into login textbox. Type “passwordpassword” into password textbox. | Login control shows “Admin\_Testing” and “passwordpassword” in relevant textboxes. | Login control matches the expected outcome. |
|  | Click Login button. | Default Admin page appears. | Matches expected outcome |
|  | Click Customers in the top menu. | Customers page appears. | Customers page appears. |
|  | Click “Customer222” from list at left. | Message (Scroll down): “Item, Maude Shaun Loaded.” | Matches expected outcome |
|  | Scroll down to bottom and click “disable Account” | Disabled value changes from “False” to “True” | Matches expected outcome |
|  | Click Logout button. | The home Page shows. The top menu says “Greetings Visitor!” | The home page shows as expected. |
|  | Click “Login” at top menu. | The login page appears. | The login page appears. |
|  | Type “Customer222” into login textbox. Type “passwordpassword” into password textbox. | Login control shows “Customer222” and “passwordpassword” in relevant textboxes. | Login control matches the expected outcome. |
|  | Click Login button. | Suspended account message appears. | Matches expected outcome |
|  |  |  |  |
| Change Order Status from waiting to Shipped. | Enter the site URL into the browser address bar and press enter. | The home page appears. | The home page appears. |
|  | Click “Login” at top menu. | The login page appears. | The login page appears. |
|  | Type “Admin\_Testing” into login textbox. Type “passwordpassword” into password textbox. | Login control shows “Admin\_Testing” and “passwordpassword” in relevant textboxes. | Login control matches the expected outcome. |
|  | Click Login button. | Default Admin page appears. | Matches expected outcome |
|  | Click Orders in the top menu. | Orders page appears. | Orders page appears. |
|  | Click “1, waiting” in list at left | Order ID: 1 is loaded.  Message: “Item Loaded” | Matches expected outcome |
|  | Change status from waiting to Shipped | - | - |
|  | Click save changes. | “1, waiting” in list at left changes to “1, shipped” | Matches expected outcome |
|  | Click Logout button. | The home Page shows. The top menu says “Greetings Visitor!” | The home page shows as expected. |
|  |  |  |  |
| Add new colour. | Enter the site URL into the browser address bar and press enter. | The home page appears. | The home page appears. |
|  | Click “Login” at top menu. | The login page appears. | The login page appears. |
|  | Type “Admin\_Testing” into login textbox. Type “passwordpassword” into password textbox. | Login control shows “Admin\_Testing” and “passwordpassword” in relevant textboxes. | Login control matches the expected outcome. |
|  | Click Login button. | Default Admin page appears. | Matches expected outcome |
|  | Click Colours in the top menu. | Colours page appears. | Colours page appears. |
|  | Click “Add new Colour …” at top right. | Message: “Ready to Add Colour. Please fill out required fields”. | Matches expected outcome |
|  | Type “Maroon” in the Name field. | - | - |
|  | Click “Save Changes” | A new colour “Maroon” appears in the list at left.  SUCCESS message appears. | Matches expected outcome |
|  | Click Logout button. | The home Page shows. The top menu says “Greetings Visitor!” | The home page shows as expected. |
|  |  |  |  |
| Modify existing colour. | Enter the site URL into the browser address bar and press enter. | The home page appears. | The home page appears. |
|  | Click “Login” at top menu. | The login page appears. | The login page appears. |
|  | Type “Admin\_Testing” into login textbox. Type “passwordpassword” into password textbox. | Login control shows “Admin\_Testing” and “passwordpassword” in relevant textboxes. | Login control matches the expected outcome. |
|  | Click Login button. | Default Admin page appears. | Matches expected outcome |
|  | Click Colours in the top menu. | Colours page appears. | Colours page appears. |
|  | Click “Green” in list at left. | Message: “Item loaded”. | Matches expected outcome |
|  | Change name field to “Indigo”. | - | - |
|  | Click “Save Changes” | Colour “Green” changes to “Indigo”.  SUCCESS message appears. | Matches expected outcome |
|  | Click Logout button. | The home Page shows. The top menu says “Greetings Visitor!” | The home page shows as expected. |
|  |  |  |  |
| Disabled Account login. | Enter the site URL into the browser address bar and press enter. | The home page appears. | The home page appears. |
|  | Click “Login” at top menu. | The login page appears. | Matches expected outcome |
|  | Type “SuspendedCustomer” into login textbox. Type “passwordpassword” into password textbox. | Login control shows “SuspendedCustomer” and “passwordpassword” in relevant textboxes. | Matches expected outcome |
|  | Click Login button. | Login page reappears, with notice that the account is disabled or suspended. | Matches expected outcome |
|  |  |  |  |
| Session Timeout. | Enter the site URL into the browser address bar and press enter. | The home page appears. | The home page appears. |
|  | Click “Login” at top menu. | The login page appears. | The login page appears. |
|  | Type “Customer111” into login textbox. Type “passwordpassword” into password textbox. | Login control shows “Customer111” and “passwordpassword” in relevant textboxes. | Login control matches the expected outcome. |
|  | Click Login button. | Profile page appears. The first and last names are “Harry” and “Bloggs”. | Profile page appears. First and last names match what is expected. |
|  | Click on the picture “Men’s Caps” in the Category section. | A new Grid of caps is shown. Page number is now 1. | - |
|  | Click on the picture “Side Trucker” in the products section. | Section appears with following details: ID: 15, Side Trucker, $12.00. | - |
|  | Click Add To Basket. | There is now 1 entry in the Shopping Basket. | Matches expected outcome. |
|  | Click Profile. | The Profile Page appears. | The Profile Page appears. |
|  | Wait 70 minutes. Do not do anything in the browser tab. | - | - |
|  | Hold CTRL and press F5. | Browser is forced to refresh.  Customer is now logged out. Top menu says “Hello Visitor!”.  The home page is showing.  The Shopping cart is unchanged. | Matches expected outcome. |
|  |  |  |  |