



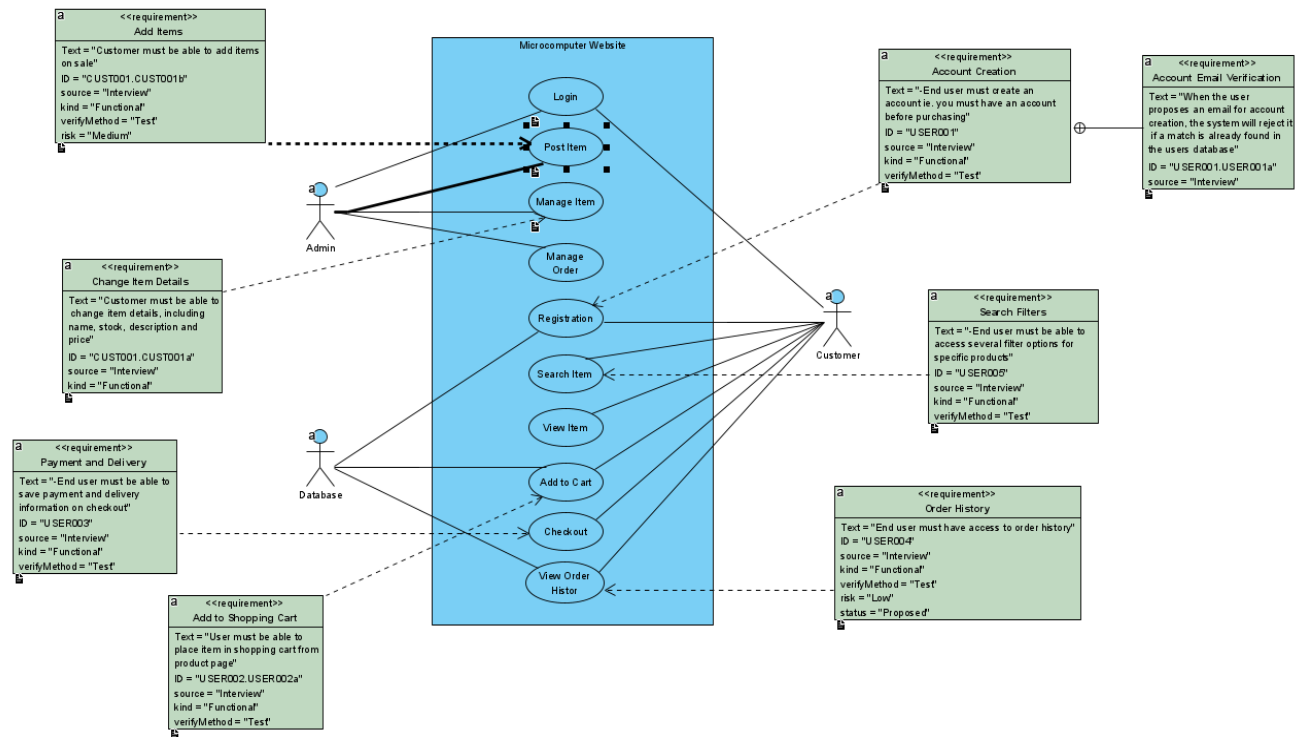
SOFE2720: Principles of Software and Requirements Engineering  
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## Course Project: MicroComputers Use Cases

### Group Members

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# Project Use Cases



# Use Case Description

## Login

Admin and user can login given that they already have an account.

### Information

**Rank** Unspecified

**ID**

**Status** Unspecified

**Justification**

**Primary Actors** Admin, Customer

**Supporting Actors** Database

### Scenarios

#### Basic Flow

1. User selects login button in top right corner to be redirected to login page.
2. User enters email.
3. User enters password.
4. User Selects login.

#### Exception Flow 1

1. User enters an invalid email or password and clicks login.

#### Exception Flow 2

1. User leaves one or more input fields empty and selects login.

### Details

**Level** User

**Complexity** Medium

**Use Case Status** N/A

**Implementation Status** N/A

**Preconditions** User has an account

**Post-conditions** N/A

**Author** N/A

**Assumptions** N/A

## Manage Item

Admin can alter the specifications of a particular item, such as the picture, name, stock etc.

### Information

**Rank** Unspecified

**ID**

**Status** Unspecified

**Justification**

**Primary Actors** Admin

**Supporting Actors**

### Scenarios

#### Basic Flow

1. Admin selects an item.
2. Admin clicks on edit button.
3. Admin proceeds to manipulate listing data.
4. Admin selects save.

#### Exception Flow 1

1. Admin enters incorrect detail in input fields
2. Admin selects update item

#### Exception Flow 2

1. Admin leaves input fields blank
2. Admin selects update item.

### Details

<b>Level</b>	N/A
<b>Complexity</b>	Medium
<b>Use Case Status</b>	N/A
<b>Implementation Status</b>	N/A
<b>Preconditions</b>	Admin is logged in
<b>Post-conditions</b>	N/A
<b>Author</b>	N/A
<b>Assumptions</b>	N/A

## Post Item

Admin posts a listing for sale.

### Information

**Rank** Unspecified

**ID**

**Status** Unspecified

**Justification**

**Primary Actors** Admin

**Supporting Actors** Database

### Scenarios

#### Basic Flow

1. Admin selects post item button to be redirected to the post item page.
2. Listing information is entered such as name, picture, stock etc.
3. Post item button is selected.

#### Exception Flow 1

1. Admin leave input fields empty.

#### Exception Flow 2

1. Admin enters incorrect information in text field.

### Details

**Level** N/A

**Complexity** Medium

**Use Case Status** N/A

**Implementation Status** N/A

**Preconditions** Admin is logged in

**Post-conditions** N/A

**Author** N/A

**Assumptions** N/A

## Manage Order

User makes changes to his/her order

### Information

<b>Rank</b>	Unspecified
<b>ID</b>	
<b>Status</b>	Unspecified
<b>Justification</b>	
<b>Primary Actors</b>	User, Database
<b>Supporting Actors</b>	

### Scenarios

#### Basic Flow

1. User selects "My Account"
2. User selects "My Orders"
3. User selects one of his/her orders
4. User selects an option to either refund or cancel an order
5. System receives request from user and database updates the order status

#### Exception Flow 1

1. Refund will be unavailable to the user for an item that is past the refund period

#### Exception Flow 2

1. Item cancellation will be unavailable to the user for an item that is already in transit

### Details

<b>Level</b>	N/A
<b>Complexity</b>	N/A
<b>Use Case Status</b>	N/A
<b>Implementation Status</b>	N/A
<b>Preconditions</b>	User has made an order
<b>Post-conditions</b>	User must receive a response from the system with updated information about the order status
<b>Author</b>	N/A
<b>Assumptions</b>	N/A

## Registration

User goes through the account creation process

### Information

<b>Rank</b>	Unspecified
<b>ID</b>	
<b>Status</b>	Unspecified
<b>Justification</b>	
<b>Primary Actors</b>	User, Database
<b>Supporting Actors</b>	

### Scenarios

#### Basic Flow

1. User clicks register button
2. User enters email, password, address, and payment information
3. User clicks the confirm registration button

#### Exception Flow

1. Invalid input has been entered for one or more of the fields
2. User selects register button
3. An error message is displayed to the user indicating invalid fields
4. User then corrects invalid fields

### Details

<b>Level</b>	N/A
<b>Complexity</b>	N/A
<b>Use Case Status</b>	N/A
<b>Implementation Status</b>	N/A
<b>Preconditions</b>	All fields have been filled
<b>Post-conditions</b>	Confirmation screen is displayed
<b>Author</b>	N/A
<b>Assumptions</b>	N/A

## Search Item

User browses the website using the search bar

### Information

**Rank** Unspecified

**ID**

**Status** Unspecified

**Justification**

**Primary Actors** User

**Supporting  
Actors**

### Scenarios

#### Basic Flow

1. User clicks on the search bar
2. User types in keywords then hits enter
3. The system directs the user to a page with relevant product listings according to keywords

#### Exception Flow

1. User enters keywords that match no relevant products

### Details

**Level** N/A

**Complexity** N/A

**Use Case Status** N/A

**Implementation  
Status** N/A

**Preconditions** The keywords have been typed correctly

**Post-conditions** N/A

**Author** N/A

**Assumptions** N/A



# View Item

User selects a product to view

## Information

Rank	Unspecified
ID	
Status	Unspecified
Justification	
Primary Actors	User
Supporting Actors	

## Scenarios

### Basic Flow

1. User clicks on a product
2. The system directs the user to the product page

## Details

Level	N/A
Complexity	N/A
Use Case Status	N/A
Implementation Status	N/A
Preconditions	User is on the website front page or on a catalog page
Post-conditions	N/A
Author	N/A
Assumptions	N/A

## Add to Cart

User adds an item to their personal shopping cart, stored as part of the user's information on the database.

### Information

<b>Rank</b>	Unspecified
<b>ID</b>	
<b>Status</b>	Unspecified
<b>Justification</b>	
<b>Primary Actors</b>	User, Database
<b>Supporting Actors</b>	

### Scenarios

#### Basic Flow

1. User selects quantity to add to cart on product page
2. User selects "Add to Cart" button
3. Item is added to user's cart with the quantity specified

#### Alternate Flow 1: No item in stock

1. User is unable to select the "Add to Cart" button

#### Exception Flow: Cart could not be updated

1. User selects "Add to Cart" button when the database is unable to respond to the request
2. User is notified that an error has occurred

### Details

<b>Level</b>	N/A
<b>Complexity</b>	Medium
<b>Use Case Status</b>	N/A
<b>Implementation Status</b>	N/A
<b>Preconditions</b>	User is logged in
<b>Post-conditions</b>	N/A
<b>Author</b>	N/A
<b>Assumptions</b>	N/A

## Checkout

User checks out all items in their shopping cart. Appropriate changes are made in item stock database.

### Information

**Rank** Unspecified

**ID**

**Status** Unspecified

**Justification**

**Primary Actors** User

**Supporting  
Actors**

### Scenarios

#### Basic Flow

1. When viewing cart, user clicks on "Checkout" button
2. User confirms delivery address and payment method
3. User confirms final purchase details, including total quantity, price, address and payment method.
4. User is notified that the purchase is complete

#### Exception Flow 1: Cart is empty

1. User is unable to click on the "Checkout" button

#### Exception Flow 2: Invalid inputs

1. User enters an invalid delivery address and/or payment method
2. User is instructed to correct fields in question

### Details

**Level** N/A

**Complexity** N/A

**Use Case Status** N/A

**Implementation  
Status** N/A

**Preconditions** User is logged in

**Post-conditions** N/A

**Author** N/A

**Assumptions** N/A

## View Order History

User views all past purchases in a list, including price and quantity for each item. Items are saved in a history database (includes user identifier), with older items being deleted as threshold is reached.

### Information

**Rank** Unspecified

**ID**

**Status** Unspecified

**Justification**

**Primary Actors** User, Database

**Supporting  
Actors**

### Scenarios

#### Basic Flow

1. User clicks on "Order History" button
2. User is directed to a list of all previous purchases

#### Exception Flow 1: Unable to access history

1. User clicks on "Order History" button when the database is unable to respond to the request
2. User is notified that an error has occurred

### Details

**Level** N/A

**Complexity** N/A

**Use Case Status** N/A

**Implementation  
Status** N/A

**Preconditions** Items have been previously purchased, User is logged in

**Post-conditions** N/A

**Author** N/A

**Assumptions** N/A