**Pro Bookstore Website**

**Use Cases**

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# UC-1: Register

| ID & Name | UC-1: Register |
| --- | --- |
| Primary Actor | User |
| Description | Describe the process of user registering an account. |
| Trigger | User clicks on the “Sign up” button. |
| Pre-conditions | None |
| Post-conditions | The website displays successfully registered notification and redirect to login page  User has an account in the database of the web application |
| Normal Flow | 1. Click on the “Register” button  2. Enter username  3. Enter email  4. Enter password  5. Click on the “Submit” button |
| Alternative Flows | None |
| Exceptions | **Exception #1**: Username or email already exists.  5. Click on the “Submit” button  6. System displays “User has existed”  7. Re-enter information  **Exception #2:** Invalid information.  5. Click on the “Submit” button.  6. System displays specific validation error (point out the rule)  7. Re-enter information |
| Priority | Must have |

## 

# UC-2: Login

| ID & Name | UC-2: Login |
| --- | --- |
| Primary Actor | User |
| Description | Describe the process of a user login account online. |
| Trigger | User clicks on the “Login” button. |
| Pre-conditions | User has already had an account in the database of the web application |
| Post-conditions | User successfully logs in.  The system displays the homepage. |
| Normal Flow | 1. Click on the “Login” button.  2. Enter username.  3. Enter password.  4. Click on the “Submit” button. |
| Alternative Flows | None |
| Exceptions | **Exception #1:** “Invalid information”.  4. Click on the “Submit” button.  5. System displays "Invalid username or password!"  6. Re-enter information |
| Priority | Must have |

# UC-3: Logout

| ID & Name | UC-3: Logout |
| --- | --- |
| Primary Actor | User |
| Description | Describe the process of user logging out of the account . |
| Trigger | User clicks on the “Logout” button. |
| Pre-conditions | User has logged in the website. |
| Post-conditions | User successfully logs out. |
| Normal Flow | 1. User clicks on the “Logout” button.  2. User is logged out. |
| Alternative Flows | None |
| Exceptions | None |
| Priority | Optional |

# UC-4: View homepage with paging

| ID & Name | UC-4: View homepage with paging |
| --- | --- |
| Primary Actor | User |
| Description | Users can view all products by pages in the homepage. Each page will display at most 20 products, and users can click any paging buttons to view the previous and following 20 products. User can also click to product to view its details |
| Trigger | User views homepage  User clicks on website original link |
| Pre-conditions | None |
| Post-conditions | The website displays all products by pages in homepage and user can switch between pages |
| Normal Flow | 1. Open homepage.  2. View the first 20 products on the homepage.  3. Switch between pages to view more products. |
| Alternative Flows | None |
| Exceptions | **Exception #1**: Products do not exist.  2. View not found page |
| Priority | Must have |

# UC-5: Sort all products with paging

| ID & Name | UC-5: Sort all products with paging |
| --- | --- |
| Primary Actor | User |
| Description | Users can click on sorting buttons in the header of the homepage to sort all products with paging in the homepage. Each sorting page will display at most 20 products, and users can click any paging buttons to view the previous and following sorted 20 products. User can also click to product to view its details |
| Trigger | User clicks on sorting buttons in the header of homepage |
| Pre-conditions | None |
| Post-conditions | The website displays all sorted products by pages in the homepage and user can switch between pages |
| Normal Flow | 1. Click on any of the sorting buttons.  2. View the first sorted 20 products in the homepage.  3. Switch between pages to view more sorted products. |
| Alternative Flows | None |
| Exceptions | **Exception #1**: Products do not exist.  2. View not found page |
| Priority | High |

# UC-6: Search all products by name with paging

| ID & Name | UC-6: Search all products by name with paging |
| --- | --- |
| Primary Actor | User |
| Description | Users can enter keywords in search engines in the header of the homepage (or other pages) to search all products by product name (or keywords) in the homepage. Each search page will display at most 20 products, and users can click any paging buttons to view the previous and following searched 20 products. User can also click to product to view its details |
| Trigger | User enters some things in the search engine and clicks “Search” or simply press Enter. |
| Pre-conditions | None |
| Post-conditions | The website displays all searched products by pages in the homepage and user can switch between pages |
| Normal Flow | 1. User enters some things in the search engine and clicks the “Search” button or press Enter.  2. User view the first searched 20 products  3. Switch between pages to view more sorted products. |
| Alternative Flows | None |
| Exceptions | **Exception #1:** Product matches do not exist.  2. View not found page |
| Priority | Must have |

# UC-7: Add new product

| ID & Name | UC-7: Add new product |
| --- | --- |
| Primary Actor | Admin |
| Description | Admin can add a new product to the selling product list. |
| Trigger | Admin click on the “Add new” button on the products (books) management admin page. |
| Pre-conditions | Admin has logged into the system. |
| Post-conditions | The website displays a reloaded product list that contains new products. |
| Normal Flow | 1. Admin click on the “Add new” button on the products (books) management admin page.  2. Admin enters required information of the product.  3. Admin click on the “Add product” button.  4. The system redirects to the products (books) management page. |
| Alternative Flows | None |
| Exceptions | **Exception #1**: Duplicate product name.  4. System displays “Duplicate name!”  5. Re-enter information.  **Exception #2**: Invalid information.  4. System displays specific validation error (point out the rule)  5. Re-enter information. |
| Priority | High |

# UC-8: Update product information

| ID & Name | UC-8: Update product information |
| --- | --- |
| Primary Actor | Admin |
| Description | Admin can update existing product’s information. |
| Trigger | Admin click on the “Pen” icon in one of the product rows on the products (books) management admin page. |
| Pre-conditions | Admin has logged into the system. |
| Post-conditions | The website displays an updated product list. |
| Normal Flow | 1. Admin click on the “Pen” icon in one of the product rows on the products management admin page.  2. Admin enters new information about the product.  3. Admin click on the “Update product” button.  4. The system displays an updated product list. |
| Alternative Flows | None |
| Exceptions | **Exception #1**: Duplicate product name.  4. System displays “Duplicate name!”  5. Re-enter information.  **Exception #2**: Invalid information.  4. System displays specific validation error (point out the rule)  5. Re-enter information. |
| Priority | High |

# UC-9: Delete a product

| ID & Name | UC-9: Delete a product |
| --- | --- |
| Primary Actor | Admin |
| Description | Admin can delete a product from the product list. |
| Trigger | Admin click on the “Trash” icon in one of the product rows on the products (books) management admin page. |
| Pre-conditions | Admin has logged into the system. |
| Post-conditions | The website displays an updated product list that does not contain deleted products. |
| Normal Flow | 1. Admin click on the “Trash” icon in one of the product rows on the products management admin page.  2. The system displays an updated product list. |
| Alternative Flows | None |
| Exceptions | None |
| Priority | High |

# UC-10: Manage product list

| ID & Name | UC-10: Manage product list |
| --- | --- |
| Primary Actor | Admin |
| Description | Admin can view the product list and choose some action to modify product and product list. |
| Trigger | Admin click on the “Login” button with the validated admin information |
| Pre-conditions | Admin has logged into the system. |
| Post-conditions | The website displays the products (books) management admin page. |
| Normal Flow | 1. Admin clicks on “Login” button with the validated admin information  2. The system displays the products management admin page.  3. Admin manages the products |
| Alternative Flows | None |
| Exceptions | None |
| Priority | High |

# UC-11: Add product to cart

| ID & Name | UC-11: Add product to cart |
| --- | --- |
| Primary Actor | Customer |
| Description | Customer adds items they wish to purchase to shopping cart |
| Trigger | Customer click on “Add to cart” button |
| Pre-conditions | Customer has logged into the system. |
| Post-conditions | The system adds item so either continue browsing or purchase items |
| Normal Flow | 1. Search product name  2. Select product want to add  3. Click on the “Add to cart” button |
| Alternative Flows | None |
| Exceptions | **Exception #1:** Item may be out of stock  1. Click on the “Add to cart” button  2. The system displays “Item is out of stock” notification  3. Customer adds another item |
| Priority | High |

# UC-12: Get items from cart

| ID & Name | UC-12: Get items from cart |
| --- | --- |
| Primary Actor | Customer |
| Description | Customer can view information about the item that was put on his cart |
| Trigger | Customer clicks on the “Cart” icon lying on the header |
| Pre-conditions | Customer has logged into the system |
| Post-conditions | The website displays some information in the cart |
| Normal Flow | 1. 1. Click on the “Cart” icon 2. 2. View the cart items |
| Alternative Flows | None |
| Exceptions | None |
| Priority | High |

# UC-13: Delete item in cart

| ID & Name | UC-13: Delete item in cart |
| --- | --- |
| Primary Actor | Customer |
| Description | Customers can delete item they do not want to buy |
| Trigger | Customer clicks on the “Delete” button in one of the item row in the cart page |
| Pre-conditions | Customer has logged into the system.  Shopping cart contains items |
| Post-conditions | The website displays an updated shopping cart that does not contain deleted items. |
| Normal Flow | 1. Click on the “Delete” button in one of the item row in the cart page  2. The system displays an updated item list. |
| Alternative Flows | None |
| Exceptions | None |
| Priority | High |

# UC-14: Get product details

| ID & Name | UC-14: Get product details |
| --- | --- |
| Primary Actor | User |
| Description | User can view the product details |
| Trigger | User clicks on one of the products displayed in the homepage, category page, sorting page, searching page or cart page to view the product details. In the detailing page, the user can also choose to do any actions he wants to do with the product, such as adding to cart or buying. |
| Pre-conditions | The system displays products in homepage, category page, sorting page, searching page or cart page |
| Post-conditions | The website displays product details |
| Normal Flow | 1. Click on the desired product  2. System redirects user to the product details page  3. User view the product details and do any desired actions |
| Alternative Flows | None |
| Exceptions | None |
| Priority | High |

# UC-15: Get products by category

| ID & Name | UC-15: Get products by category |
| --- | --- |
| Primary Actor | User |
| Description | Users can view all products by their category. Each category page will display at most 20 products, and users can click any paging buttons to view the previous and following classified 20 products. User can also click to product to view its details |
| Trigger | User clicks on one of the category buttons in the header of any pages he can view |
| Pre-conditions | None |
| Post-conditions | The website displays all products by its category in homepage and user can switch between pages |
| Normal Flow | 1. Click on one of the category buttons in the header  2. View the products classified in that category  3. Switch between pages to view more products. |
| Alternative Flows | None |
| Exceptions | **Exception #1**: Products do not exist.  2. View not found page |
| Priority | High |

# UC-16: Update profile

| ID & Name | UC-16: Update profile |
| --- | --- |
| Primary Actor | Customer |
| Description | Customer logins the website and clicks on his account icon. The system will redirect him to the profile form where he can both view and edit his profile. After filling in the form, the customer clicks to the “update” button to make all changes saved. |
| Trigger | Customer clicks on his account icon |
| Pre-conditions | Customer has logged into the system |
| Post-conditions | The updated information of the customer is saved to the database.  The system triggers success notifications |
| Normal Flow | 1. Customer clicks on his account icon.  2. The system redirects him to the profile form.  3. Customer updates his informations  4. Customer clicks the “update” button  5. The system triggers success notifications  6. The system redirects the customer back to the homepage |
| Alternative Flows | None |
| Exceptions | **Exception #1**: Invalid information  5. The system informs the error and requires customer to input again |
| Priority | Normal |

# UC-17: Update order status

| ID & Name | UC-17: Update order status |
| --- | --- |
| Primary Actor | Admin |
| Description | This use case describes the process of updating the status of an order in a system. The order status can be updated to reflect changes in the order's progress, such as when it has been shipped, delivered, or canceled. |
| Trigger | Admin clicks one of the drop-down options in “Manage orders” in the admin page, and then clicks “Update” button |
| Pre-conditions | The admin has logged into the system  The order must exist in the system  The admin must have the necessary permissions to update the order status |
| Normal Flow | 1. Admin clicks one of the drop-down options in “Manage orders” in the admin page, and then clicks “Update” button  2. Admin sees update order status form  3. Admin inputs informations his/her need to update  4. Admin clicks “Update” button  5. The order is updated |
| Alternative Flows | None |
| Exceptions | **Exception #1**: Invalid information  5. Inform and require input again |
| Priority | Must have |

# 

# UC-18: Get orders’ status

| ID & Name | UC-18: Get orders’ status |
| --- | --- |
| Primary Actor | User |
| Description | The feature will allow customer or admin to view their previously made orders’ status |
| Trigger | Customer clicks “Success orders” or “Canceled orders”  Admin clicks one of the drop-down options of “Manage orders” in the admin page |
| Pre-conditions | 1.1. Customer must be logged into account  1.2. Admin must be logged into account  2.1. Customer must have made at least one order previously  2.2. Order(s) must exist in the system |
| Post-conditions | User is able to view their previous orders and order details if desired |
| Normal Flow | 1. Customer navigates to the “Success orders” or “Canceled orders” page on the e-commerce website  2. Customer view details or the order |
| Alternative Flows | 1. Admin clicks one of the drop-down options of “Manage orders” in the admin page  2. Admin view details or the order |
| Exceptions | **Exception #1**: Customer has no previous orders  2. The system displays no order / not found page |
| Priority | Optional |

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# UC-19: Manage voucher list

| ID & Name | UC-19: Manage voucher list |
| --- | --- |
| Primary Actor | Admin |
| Description | Admin logins to the website and is redirected to the admin page. In this page, he chooses the “Manage vouchers” option in the sidebar, and is redirected to the vouchers management admin page. Here he can view all the vouchers of the system, add a new one or delete the existing one. |
| Trigger | Admin has logged into the system. |
| Pre-conditions | The website displays the vouchers management admin page. |
| Post-conditions | 1. Admin clicks on “Login” button with the validated admin information  2. The system displays the vouchers management admin page.  3. Admin manages the vouchers |
| Normal Flow | Admin has logged into the system. |
| Alternative Flows | None |
| Exceptions | None |
| Priority | Normal |

# UC-20: Add new voucher

| ID & Name | UC-20: Add new voucher |
| --- | --- |
| Primary Actor | Admin |
| Description | Admin logins to the website and is redirected to the admin page. In this page, the admin clicks “Manage vouchers” to be redirected to the vouchers admin page, and he clicks the “Add new” button to add a new voucher. He will be required to fill in a form and submit it to make the voucher added successfully. After that, a voucher will be created and ready to be used by a customer. |
| Trigger | Admin click “Add new” button in the vouchers admin page |
| Pre-conditions | Admin has logged into the system |
| Post-conditions | A voucher is added successfully |
| Normal Flow | 1. Admin opens admin page  2. Admin click “Add new” button  3. Admin fill in the form  4. Admin submit form  5. Voucher is added |
| Alternative Flows | None |
| Exceptions | **Exception #1**: Invalid information  4. Inform and require input again |
| Priority | Normal |

# UC-21: Delete a voucher

| ID & Name | UC-21: Delete a voucher |
| --- | --- |
| Primary Actor | Admin |
| Description | Admin logins the website and is redirected to the admin page. In this page, the admin clicks “Manage vouchers” to be redirected to the vouchers admin page. Here the admin can click the “Delete” button to delete the corresponding voucher. |
| Trigger | Admin clicks “Delete” button in one of the voucher rows |
| Pre-conditions | Admin has logged into the system |
| Post-conditions | A voucher is deleted successfully |
| Normal Flow | 1. Admin opens admin page  2. Admin clicks “Delete” button in one of the voucher rows  3. Voucher is deleted |
| Alternative Flows | None |
| Exceptions | None |
| Priority | Normal |

# 

# UC-22: Pay by Paypal

| ID & Name | UC-22: Pay by Paypal |
| --- | --- |
| Primary Actor | Customer |
| Description | Customers pay online for orders with PayPal |
| Trigger | Customer click on “Confirm” button in confirm order information screen |
| Pre-conditions | Logged in to the website successfully as the customer |
| Post-conditions | Order is paid successfully |
| Normal Flow | 1. Customer review order information and payment method and then click on “Confirm” button  2. Customer enter paypal account information  3. Customer choose a source of money to pay  4. Customer click on “Payment right”  5. Order is paid |
| Alternative Flows | 4. Customer click on “Continue review order”  5. Customer enter paypal account information  6. Customer choose a source of money to pay  7. Customer click on “Payment right”  8. Order is paid |
| Exceptions | **Exception #1**: Internet connection failed  5. The system will report the payment failed |
| Priority | Optional |