**E-Shopper: Use Case Description**

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| **Use Case Number: 1** | | | |
| **Name** | | User account CRUD | |
| **Brief description** | | This use case allows user sign up to create account/login to read, update account. | |
| **Actors** | | User | |
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| **Pre-conditions** | | | |
| User must login before reading/updating the account. | | | |
| **Flows of Events:** | | | |
| **1.Basic Flows** | | | |
| **1.1 Create User Profile** | | | |
| **Step** | **User Actions** | | **System Actions** |
| 1 | The user goes to sign up page | | The system shows profile information form for the user to fill in:  - Name  - Email (used to login)  - Password/Password confirm  - Address: Street, City, State, Zip Code.  - Phone  - Avatar |
| 2 | The user fills in the profile information and request the system to create a new profile | | The system verifies input information:  - Email verification (existing, validation)  - Password is at least 6 character long  In case of failure verification, the system returns the message indicating the error.  Otherwise, the system creates a new profile in the database and return a success message. |
| **Post-conditions** | | | |
| The new profile is persisted in the system. | | | |
| **Business Rules** | | | |
| No duplicate profile. A unique account is identified by email address. | | | |
| **1.2 View User Profile** | | | |
| **Step** | **User Actions** | | **System Actions** |
| 1 | The user goes to login page | | The system shows login information for the user to fill in:  - Email  - Password |
| 2 | The user fills in login information and request the system to log in | | The system verifies the login information. In case of failure, the system returns a failure message. Otherwise, the system shows Logged in User Home page |
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| **1.3 Update User Profile** | | | |
| **Step** | **User Actions** | | **System Action** |
| 1 | The user goes to login page | | The system shows login information for the user to fill in:  - Email  - Password |
| 2 | The user fills in login information and request the system to log in | | The system verifies the login information. In case of failure, the system returns a failure message. Otherwise, the system shows Logged in User Home page |
| 3 | The user goes to My Account-Profile page | | The system displays an editable user profile form filled with the user profile details |
| 4 | The user updates the fields and request the system to save | | The system updates the user profile and returns failure/success message. |
| **Post-conditions** | | | |
| The user profile is updated. | | | |
| **Business Rule** | | | |
| The email field should be unwritable | | | |
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| **Use Case Number: 2** | | | |
| **Name** | | Item CRUD | |
| **Brief description** | | Provides a functionality for managing items | |
| **Actors** | | User | |
|  | | | |
| **Pre-conditions** | | | |
| User must login before creating/updating/deleting/purchasing items. | | | |
| **Flows of Events:** | | | |
| **1.Basic Flows** | | | |
| **1.1 Create an item** | | | |
| **Step** | **User Actions** | | **System Actions** |
| 1 | The user goes to login page | | The system shows login information for the user to fill in:  - Email  - Password |
| 2 | The user fills in login information and request the system to log in | | The system verifies the login information. In case of failure, the system returns a failure message. Otherwise, the system shows Logged in User Home page |
| 3 | The user goes to My Account-Add new item page | | The system displays item information to fill in:  - Name  - Price  - Category  - Description  - Picture |
| 4 | The user fills in item information, uploads item pictures and request the system to add | | The system creates the new item and save it to the database, returns a success message. |
| **Post-conditions** | | | |
| The new item is persisted in the system. | | | |
| **Business Rules** | | | |
| The new item has at least 1 picture. | | | |
| **1.2 View a list of items** | | | |
| **Step** | **User Actions** | | **System Actions** |
| 1 | The user goes to home page | | The system displays a list of items in order of latest created date by default |
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| **1.3 View a list of posted items** | | | |
| **Step** | **User Actions** | | **System Action** |
| 1 | The user goes to login page | | The system shows login information for the user to fill in:  - Email  - Password |
| 2 | The user fills in login information and request the system to log in | | The system verifies the login information. In case of failure, the system returns a failure message. Otherwise, the system shows Logged in User Home page |
| 3 | The user goes to My Account-Posted Item page | | The system displays a list of items which posted by the user |
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| **1.4 View a list of purchased items** | | | |
| **Step** | **User Actions** | | **System Action** |
| 1 | The user goes to login page | | The system shows login information for the user to fill in:  - Email  - Password |
| 2 | The user fills in login information and request the system to log in | | The system verifies the login information. In case of failure, the system returns a failure message. Otherwise, the system shows Logged in User Home page |
| 3 | The user goes to My Account-Purchased Item page | | The system displays a list of items which purchased by the user |
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| **1.5 View an item detail** | | | |
| **Step** | **User Actions** | | **System Action** |
| 1 | The user is in item list page (1.2,1.3,1.4) | | The system shows a list of items |
| 2 | The user clicks an item to go to item detail page | | The system shows the item details:  - Name  - Price  - Status  - Category  - Description  - Pictures |
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| **1.6 Update item details** | | | |
| **Step** | **User Actions** | | **System Action** |
| 1 | The user is in posted item page (1.3) | | The system displays a list of items which posted by the user |
| 2 | The user clicks edit button on the item which is desired to edit | | The system displays an editable item form which is filled with the item details |
| 3 | The user updates the fields and request the system to save | | The system updates the item details and save it to the database. |
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| **Post-conditions** | | | |
| The item details are updated. | | | |
| **Business Rule** | | | |
| The item should have at least 1 picture. | | | |
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| **1.7 Delete an item** | | | |
| **Step** | **User Actions** | | **System Action** |
| 1 | The user is in posted item page (1.3) | | The system displays a list of items which posted by the user |
| 2 | The user clicks delete button on the item which is desired to delete | | The system confirms the desire to delete the chosen item and remove it from the database |
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| **Post-conditions** | | | |
| The item is removed from the database | | | |
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| **2.Other Flows** | | | |
| **2.1 Search items** | | | |
| **Step** | **User Actions** | | **System Actions** |
| 1 | The user is in home page | | The system shows a list of items in latest order by default and filtering form to choose:  - Category  - Status (Sold/Active)  - Address (State, City)  - Order (Latest/Oldest/Highest/Lowest) |
| 2 | The user chooses the filtering field and request the system to filter | | The system displays the list of items based on the filtering elements which are selected by the user. |
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| **2.2 Purchase an item** | | | |
| **Step** | **User Actions** | | **System Action** |
| 1 | The user goes to login page | | The system shows login information for the user to fill in:  - Email  - Password |
| 2 | The user fills in login information and request the system to log in | | The system verifies the login information. In case of failure, the system returns a failure message. Otherwise, the system shows Logged in User Home page which shows a list of items |
| 3 | The user clicks Purchase button on the item which is desired to buy to request the system update the chosen item is bought by the current user | | The system updates the status of the chosen item to Sold status and save the buyer of that item to the database |
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| **Post-conditions** | | | |
| The buyer and the status of the item are updated. | | | |
| **Business Rule** | | | |
| The user cannot buy a sold item, or an item posted by themselves. | | | |