USE CASE SPECIFICATION

E-HYDROPONICS SYSTEM
(EHS)

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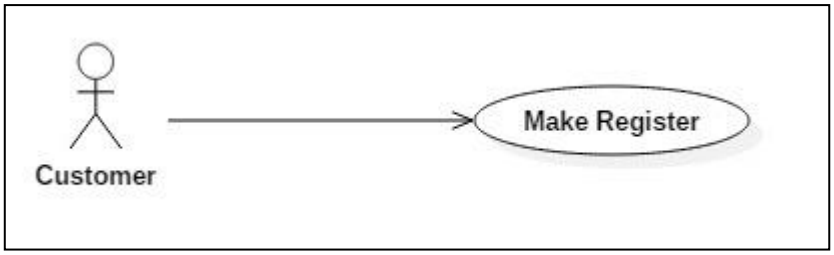
1 USE CASE: MAKE REGISTER (EHS_01)



1.1 BRIEF DESCRIPTION

This use case is initiated by the customer. This use case will enable customer to insert their personal information such as name, email address, password, mobile number and home address in registration form in order to register as member then access into the system.

1.2 PRE-CONDITIONS

Customer is not a member of the system.

1.3 CHARACTERISTIC OF ACTIVATION

Event Driven (on customer's demand).

1.4 FLOW OF EVENTS

1.4.1 Basic Flow (EHS_01_01)

- This use case begins when customer click 'register button' at Home Page.
- The system shall display a new registration form on the Registration Page.
- Customer shall insert their personal information such as name, email address, password, mobile number and home address in registration form. **(A-1: Reset)**
- Customer shall click 'submit button' in order to confirm his or her registration process.
- The system shall save customer's inserted information into the database of the system. (**E-1: Incomplete Info)**
- The system shall display back to Home Page.

1.4.2 Alternative Flow

A-1: Reset. (EHS_01_02)

- Customer can click 'reset button' in order to clear inserted information in registration form.
- The system shall clear the inserted information by customer in text fields.

1.4.3 Exceptional Flow

E-1: Incomplete Info. (EHS_01_03)

The system shall display an error message “Please fill out this field!” if customer failed to complete all the information that required in registration form.

1.5 POST-CONDITIONS

Customer is a member of the system.

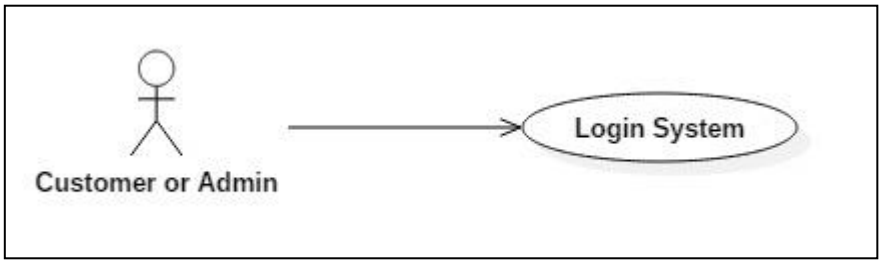
1.6 RULE(S)

Not applicable.

1.7 CONSTRAINT(S)

Customer can register once only into the system.

2 USE CASE: LOGIN SYSTEM (EHS_02)



2.1 BRIEF DESCRIPTION

This use case is initiated by the customer or admin. This use case is enable customer or admin to insert his or her email address or username and password in order to login then access into the system.

2.2 PRE-CONDITIONS

Customer or Admin is not logged into the system.

2.3 CHARACTERISTIC OF ACTIVATION

Event Driven (on customer's or admin's demand).

2.4 FLOW OF EVENTS

2.4.1 Basic Flow (EHS_02_01)

- Customer or Admin shall click 'customer or admin login button' at Home Page.
- The system shall display Customer or Admin Login Page.
- Customer or Admin shall insert his or her email address or username and password then click at 'login button'. **(A-1: Reset)**
- The system shall authenticate the authorised customer or Admin with the inserted email address or username and password. **(E-1: Invalid Username or Password)**
- The system shall display welcome message **"Welcome to E-Hydroponics System!"**
- The system shall display Product Category Page for customer or Admin Manage Page for admin.

2.4.2 Alternative Flow

A-1: Reset. (EHS_02_02)

- Customer or Admin can click 'reset button' if they want to clear inserted username or password at Login Page.
- The system shall clear information that inserted by customer or Admin in text fields at Login Page.

2.4.3 Exceptional Flow

E-1: Invalid Username or Password. (EHS_02_03)
The system shall display an error message “Wrong Username or Password! Please try again!” if customer or Admin inserted either their username or password incorrectly at Login Page.

2.5 POST-CONDITIONS

Customer or Admin is logged into the system.

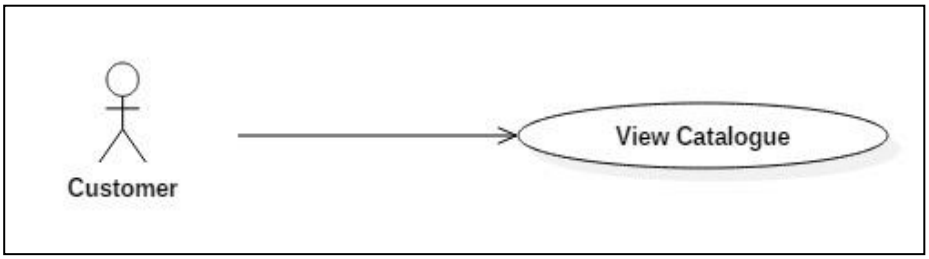
2.6 RULE(S)

Customer shall register first before login and access into the system.

2.7 CONSTRAINT(S)

The system shall immediately block the customer’s account if they inserted their password three times incorrectly during login into the system.

3 USE CASE: VIEW CATALOGUE (EHS_03)



3.1 BRIEF DESCRIPTION

This use case is enable customer to view catalogue that consists of all hydroponic items in the system.

3.2 PRE-CONDITIONS

Customer must logged into the system.

3.3 CHARACTERISTIC OF ACTIVATION

Event Driven (on customer's demand).

3.4 FLOW OF EVENTS

3.4.1 Basic Flow (EHS_04_01)

- The system shall display categories of Hydroponics items on Product Category Page.
- Customer shall click on any category in order to views all items for selected category.
- The system shall display all items for selected category.
- Customer shall click on item in order to view its full information such as item's name, price, picture and description.
- The system shall display item's full information on Product Information's Page.

3.4.2 Alternative Flow

No Alternative Flow.

3.4.3 Exceptional Flow

No Exceptional Flow.

3.5 POST-CONDITIONS

Not Applicable.

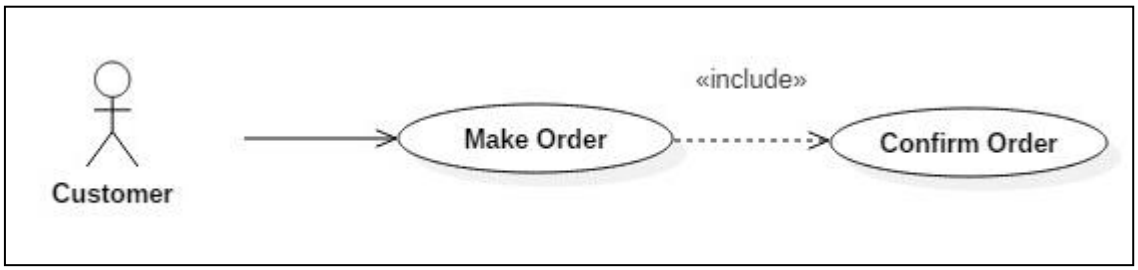
3.6 RULE(S)

Not Applicable.

3.7 CONSTRAINT(S)

Not Applicable.

4 USE CASE: MAKE ORDER (EHS_04)



4.1 BRIEF DESCRIPTION

This use case is enable customer to make orders from category of hydroponic items in the system.

4.2 PRE-CONDITIONS

Customer must logged into the system.

4.3 CHARACTERISTIC OF ACTIVATION

Event Driven (on customer's demand).

4.4 FLOW OF EVENTS

4.4.1 Basic Flow (EHS_05_01)

- Customer shall click 'add to cart button' on Product Information's Page in order to add his or her orders into Cart List Page.
- The system shall add customer's orders into Cart List Page.
  (A-1: Confirm Order) (A-2: View Order List) (A-3: Delete Order)

4.4.2 Alternative Flow

A-1: Confirm Order. (EHS_05_02)

- Customer can click 'confirm order button' in order to confirm his or her to purchase the items.
- The system shall display confirmation message "Are you confirm?" to customer.
- Customer shall click 'ok button' to complete make order process.
- The system shall save customer's orders into the system.
- The system shall display successful message "Your order has been placed!" to customer.

A-2: View Order List. (EHS_05_03)

- Customer can click 'view order button' to view all orders with total price at Cart List Page.

- The system shall display list of customer orders with total price in Cart List Page.

A-3: Delete Order. (EHS_05_04)

- Customer can click ‘delete button’ in order to delete orders from Cart List Page.
- The system shall delete customer’s order from Cart List Page.

4.4.3 Exceptional Flow

No Exceptional Flow.

4.5 POST-CONDITIONS

Customer have purchase orders from the system.

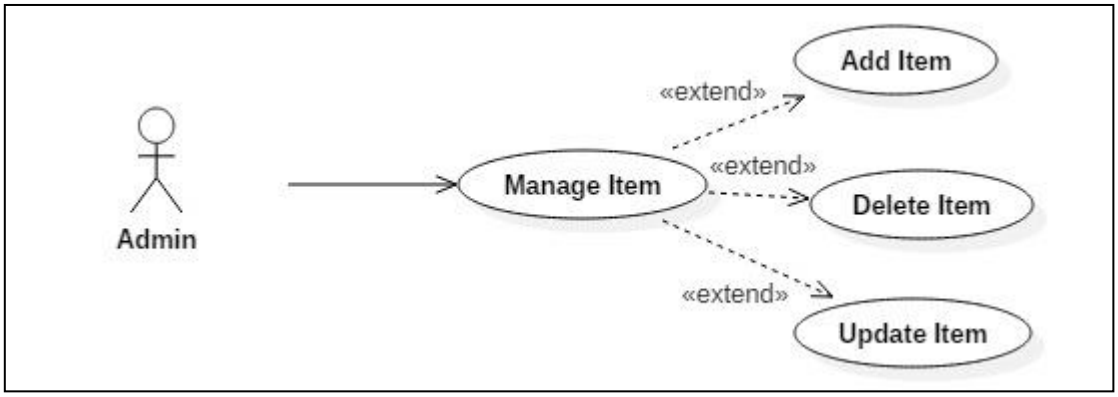
4.6 RULE(S)

Customer shall select order first before click confirm button in Cart List Page

4.7 CONSTRAINT(S)

Not Applicable.

5 USE CASE: MANAGE ITEM (EHS_05)



5.1 BRIEF DESCRIPTION

This use case is enable admin to manage item in the system.

5.2 PRE-CONDITIONS

Admin must logged into the system.

5.3 CHARACTERISTIC OF ACTIVATION

Event Driven (on admin's demand).

5.4 FLOW OF EVENTS

5.4.1 Basic Flow (EHS_06_01)

- The system shall display the Admin Manage Page.
- Admin shall click 'add product button' at Products List.
- The system shall display Add New Entry Product Page.
- Admin shall add new item entry's information such as item's id, name, category, price, picture and description into product list of the system. **(A-1: Delete Item) (A-2: Update Item) (A-3: Reset)**
- The system shall add and save new item entry and its information into the system. **(E-1: Incomplete Info)**
- The system shall display back to Admin Manage Page.

5.4.2 Alternative Flow

A-1: Delete Item. (EHS_06_02)

- Admin can click 'delete icon' in order to delete item from product list.
- The system shall display confirmation message "Are you sure?" to admin.
- Admin shall click 'ok button' in order to confirm delete process.
- The system shall delete that selected item from product list.

A-2: Update Item. (EHS_06_03)

- Admin can click ‘update icon’ in order to update item’s information such as name, category, price, picture and description.
- After latest information, admin shall click ‘update button’.
- The system shall save item’s updates information into product list of the system.
- The system shall display a successful message “Product’s Info Updated!”

A-3: Reset. (EHS_06_04)

- Admin can click ‘reset button’ to clear inserted information at Add New Entry Product Page.
- The system shall clear all item’s information that inserted by admin.

5.4.3 Exceptional Flow

E-1: Incomplete Info. (EHS_06_05)

The system shall display an error message “Please fill in this field!” if admin not complete all the information that required during adding or updating item’s information into product list of the system.

5.5 POST-CONDITIONS

Not Applicable.

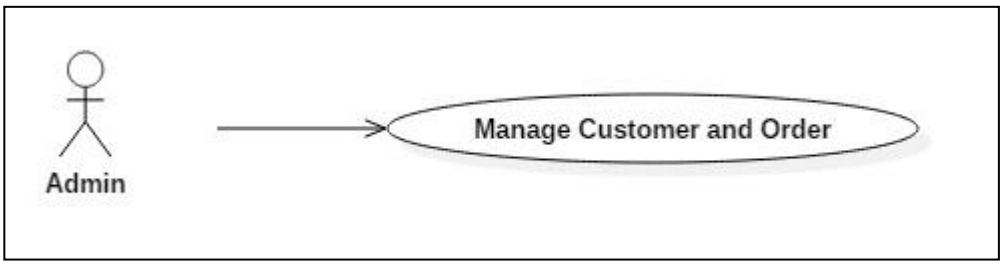
5.6 RULE(S)

Admin can only updates the item’s information after adding item in product list of the system.

5.7 CONSTRAINT(S)

Not Applicable.

6 USE CASE: MANAGE CUSTOMER & ORDER (EHS_06)



6.1 BRIEF DESCRIPTION

This use case is enable admin to manage customer and order in the system.

6.2 PRE-CONDITIONS

Admin must logged into the system.

6.3 CHARACTERISTIC OF ACTIVATION

Event Driven (on admin's demand).

6.4 FLOW OF EVENTS

6.4.1 Basic Flow (EHS_07_01)

- The system shall display the Admin Manage Page.
- Admin shall click 'customer list or order list' in order to view all from the system. (**A-1: Delete Customer) (A-2: Delete Order)**
- The system shall display all customers and order information based on admin's selection at Admin Manage Page.

6.4.2 Alternative Flow

A-1: Delete Customer. (EHS_07_02)

- Admin can click 'delete icon' in order to delete a customer from the list of customer.
- The system shall display confirmation message "Are you sure?" to admin.
- Admin shall click 'ok button' in order to confirm delete process.
- The system shall delete that current customer from customer list.

A-1: Delete Order. (EHS_07_03)

- Admin can click 'delete icon' in order to delete an order that shipped from the list of order.
- The system shall display confirmation message "Are you sure?" to admin.
- Admin shall click 'ok button' in order to confirm delete process.

- The system shall delete that current order from order list.

6.4.3 Exceptional Flow

No Exceptional Flow.

6.5 POST-CONDITIONS

Not Applicable.

6.6 RULE(S)

Not Applicable.

6.7 CONSTRAINT(S)

Not Applicable.