**SOFTWARE SPECIFICATION**

**VEGAN LOVER**

1. **TEAM INTRODUCTION**

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1. **CASE STUDY**

Vegetables and fruits have always been an indispensable commodity for everyone, whether Vietnamese or foreign. With the covid epidemic raging, people are isolated, so it is difficult to move out to shop. That's why online shopping, home delivery is the number one choice in the current situation

To meet this market demand, Vegan Lover has developed an application that allows people to directly order fresh fruits and vegetables with just a few taps and have their orders delivered to their homes.

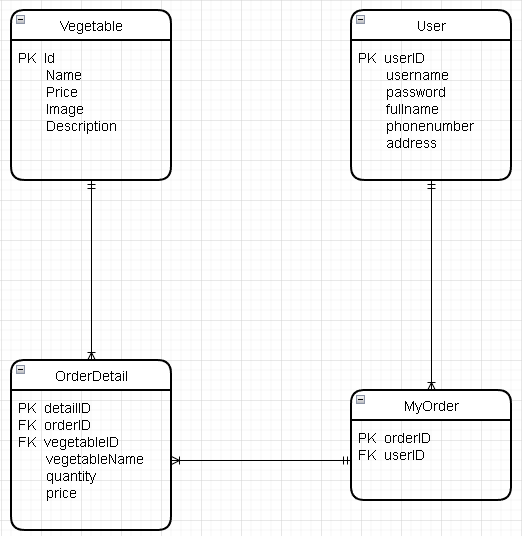
- Advantages of Vegan Lover:

Because of the online business, Vegan Lover does not cost space but only costs money to store, so the price of the product will also decrease.

At the same time, Vegan Lover equips mobile fruit and vegetable trucks to reach customers more easily with the least transportation costs.

1. **FUNCTIONAL SPECIFICATION**

* DATABASE



1. User login

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| **Use Case No.** | **1** |
| **Use Case Name** | Login |
| **Actor:**   * User   **Summary:**   * This use case allows user to login into system   **Goal**   * Authentication and authorization   **Trigger:**   * User clicks “Login” button   **Precondition:**   * User has an account.   **Post Conditions:**   * Success: User login into the system successfully   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | User inputs username, password and clicks “Login” link | The system validates the data  [Exception 1,2] |   **Exception:**   |  |  |  | | --- | --- | --- | | **No** | **Actor Action** | **System Response** | | 1 | Account not exists | Show error message “Account not exists” | | 2 | Invalid username or password | Show error message “Invalid username or password” | | |

1. User Register

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| **Use Case No.** | **2** |
| **Use Case Name** | Register |
| **Actor:**   * User   **Summary:**   * This use case allows user create new account   **Goal**   * Create new account   **Trigger:**   * User clicks “Register” button   **Precondition:**   * none   **Post Conditions:**   * Database stored new account   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | User clicks “Register” | The system shows a form:   * Username: text , required * Password: text , required * Fullname: text , required * Phone: text , required, phone format, length required: 10. * Address: text , required. * Button Confirm | | 2 | User inputs data and clicks “Confirm” | The system validates the data.  The system create new account. |   **Exception:**   |  |  |  | | --- | --- | --- | | **No** | **Actor Action** | **System Response** | | 1 | Duplicate value of “Username” | Show error message “username exists” | | 2 | Invalid phone format | Show error message “Invalid phone format” | | |

1. View List of Vegetable

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| **Use Case No.** | **3** |
| **Use Case Name** | View List of Vegetable |
| **Actor:**   * User   **Summary:**   * This use case allows user view vagetable list   **Goal**   * Show the list with main information about the product.   **Trigger:**   * none   **Precondition:**   * User logged in success   **Post Conditions:**   * Show the list with main information about the product.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | User go to Main Page | The system shows a list of vegetable, each contains:   * Image of vegetable * Name * Price |   **Exception: none** | |

1. View detail of vegetable

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| **Use Case No.** | **4** |
| **Use Case Name** | View detail of vegetable |
| **Actor:**   * User   **Summary:**   * This use case allows user view detail information   **Goal**   * Show all information about the product   **Trigger:**   * User clicks on an item in the Vegetable list.   **Precondition:**   * none   **Post Conditions:**   * Show all information about the product on screen   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | User clicks on an item in the Vegetable list. | The system shows information:   * Image of vegetable * Name * Price * Description * Spinner rolls from 1 to 10 display as Quantity of vegetable * Button “Add to cart” |   **Exception:none** | |

1. Add to Cart

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| **Use Case No.** | **5** |
| **Use Case Name** | Add to Cart |
| **Actor:**   * User   **Summary:**   * This use case allows user add vegetable to Cart   **Goal**   * Add new vegetable to Cart or increase quantity if the item exists.   **Trigger:**   * User clicks “Add to Cart” button   **Precondition:**   * none   **Post Conditions:**   * Add new item to Cart.   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | User rolls the spinner to chose quantity and clicks “Add to Cart” | a.The system redirect to Cart page.  b.The system check if the item exists in Cart: increase quantity (new quantity = current + user spinner’s quantity).  c.IF NOT, add new item to Cart  d.The Cart list show all item, each item in list contains:  - Image of vegetable  - Name  -Quantity  -Total price of that item.  -Button “+” and Button “-“ can be used to change value of quantity.  e.The Cart page also contains :  -TextView: Total Price of Cart  -Button “Check Out”  -Button “Continue Shopping” |   **Exception: none** | |

1. Remove item form Cart

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| **Use Case No.** | **6** |
| **Use Case Name** | Remove Cart item |
| **Actor:**   * User   **Summary:**   * This use case allows user remove Cart item   **Goal**   * Remove Cart item   **Trigger:**   * User long clicks on an item on Cart list   **Precondition:**   * Cart list not empty   **Post Conditions:**   * Remove Item from Cart   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | User long clicks on an item on Cart list | a.The system show confirm dialog:  -IF “YES” option, remove item from cart  -IF “NO” option, return. |   **Exception: none** | |

1. Continue Shopping

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| **Use Case No.** | **7** |
| **Use Case Name** | Continue Shopping |
| **Actor:**   * User   **Summary:**   * This use case allows user return to Main page   **Goal**   * Recommend user buy more items   **Trigger:**   * User clicks “Continue Shopping” button   **Precondition:**   * none   **Post Conditions:**   * Return to Main Page   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | User clicks “Continue Shopping” | a.The system redirect to Main page. |   **Exception: none** | |

1. Check Out

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| **Use Case No.** | **8** |
| **Use Case Name** | Checkout |
| **Actor:**   * User   **Summary:**   * This use case allows user check out   **Goal**   * Create new Order   **Trigger:**   * User clicks “Check Out” button   **Precondition:**   * Cart has items   **Post Conditions:**   * Stored new Order to database, show user orders on “Your Order Page”   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | User clicks “Check out” | a.The System check if the Cart has items.  b.IF NOT, show message “Cart is empty”  c.The System stored Cart information to database.  d.The System redirect to Order Page, show the list of user’s orders, each order contain:  -Image of shipping vehicle  -orderID  -User’s Full name  -Approved status |   **Exception: none** | |

1. View Order Detail

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| **Use Case No.** | **9** |
| **Use Case Name** | View Order Detail |
| **Actor:**   * User   **Summary:**   * This use case allows user view Order’s detail information   **Goal**   * Show Detail information of Order   **Trigger:**   * User clicks on an item on the Order List.   **Precondition:**   * none   **Post Conditions:**   * Show Detail information of Order   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | User clicks on an item on the Order List | a.The system redirect to Order Detail Page.  b.The system get all Order Detail item from database base on orderID and show on the list, each item on the list contains:  - Image of vegetable  -Name  -Quantity  -Total price of that item.  c.The page also contain: TextView show Total price of the Order. |   **Exception: none** | |

1. View Cart (by clicks on Menu toolbar Cart Icon)

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| **Use Case No.** | **10** |
| **Use Case Name** | View Cart |
| **Actor:**   * User   **Summary:**   * Menu toolbar contains Cart icon, User clicks on it to view Cart   **Goal**   * Create a shortcut to View Cart.   **Trigger:**   * User clicks Cart Icon   **Precondition:**   * none   **Post Conditions:**   * Show Cart list on screen   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | User clicks Cart Icon on menu toolbar | a.The system check IF the Cart has item.  b.IF empty, make the TextView “Cart is empty” become visible.  c.IF Cart has item, show the list of item, each item on list contains:  -Image of vegetalbe  -Name  -Quantity  -Total price of that item  -Button “+” and Button “-“ can be used to change the value of quantity.  d. The Cart page also contains:  -TextView total price of the list  -Button “Check Out”  -Button “Continue Shopping” |   **Exception: none** | |

1. View Order (by clicks on Menu toolbar Order List Icon)

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| **Use Case No.** | **11** |
| **Use Case Name** | View Order List |
| **Actor:**   * User   **Summary:**   * Menu toolbar contains Order List icon, User clicks on it to view user’s orders   **Goal**   * Create a shortcut to View Order List.   **Trigger:**   * User clicks Order List Icon   **Precondition:**   * Logged in success   **Post Conditions:**   * Show Order list on screen   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | User clicks Order List Icon on menu toolbar | a.The system check IF the Order List has item.  c.IF Order List has item, show the list of item, each item on list contains:  -Image of shipping vehicle  -Order ID  -User’s Full name  -Approved status  d. The Cart page also contains:  -TextView total price of the list  -Button “Check Out”  -Button “Continue Shopping” |   **Exception: none** | |

1. View Map

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| **Use Case No.** | **12** |
| **Use Case Name** | View Map |
| **Actor:**   * User   **Summary:**   * User can view location of shop   **Goal**   * Display shop location on google map   **Trigger:**   * User clicks Map Image   **Precondition:**   * Logged in success   **Post Conditions:**   * Show Map screen   **Main Success Scenario:**   |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | User clicks Map Image | The system show shop location on map based on Google Map. |   **Exception: none** | |