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| --- | --- | --- | --- | --- | --- |
| Use Case ID | UC-01 | | | | |
| Use Case Name | Log in | | | | |
| Created By | Nattapat Tamtrakool | | Last Update By | Nattapat Tamtrakool | |
| Date Created | 4/10/2018 | | Last Revision Date | 4/10/2018 | |
| Actors | Administrator ,farmer and farm owner | | | | |
| Description | Allow user to access to the system. | | | | |
| Trigger | The Administrator ,farmer or farm owner chooses to login to the system | | | | |
| Preconditions | User must have a valid account. | | | | |
| Use Case Input Specification | | | | | |
| Input | type | Constraint | | | Example |
| Username | String | - | | | Hello559 |
| Password | String | - | | | Hihi2540 |
| Post conditions | If the login is successful, the user is logged into the system. If not the  system state remains the same. | | | | |
| Normal flow | User | | System | | |
|  | 1.User input username and password  2.User click login button | | 3.System validate the input [A1: Username or password is incorrect.]  [A2:Account has not approve by administrator.]  4.The system shall redirect to the main page. | | |
| Alternative Flow | [A1]: Username or password is incorrect.  1.System will notify the user with “Username or password is incorrect”.  2.Go back to normal flow 1.  [A2]: Account has not approve by administrator.  1.System will notify the user with “Your account has not  been approved by administrator”.  2.Go back to normal flow 1. | | | | |
| Exception Flow | - | | | | |
| Assumption | Actor must already have the username and password. | | | | |

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| Use Case ID | UC-02 | | | | |
| Use Case Name | Log out | | | | |
| Created By | Nattapat Tamtrakool | | Last Update By | Nattapat Tamtrakool | |
| Date Created | 4/10/2018 | | Last Revision Date | 4/10/2018 | |
| Actors | Administrator ,farmer and farm owner | | | | |
| Description | Administrator ,farmer or farm owner chooses to log out. | | | | |
| Trigger | Log out button is clicked. | | | | |
| Preconditions | User must be logged in . | | | | |
| Use Case Input Specification | | | | | |
| Input | type | Constraint | | | Example |
| - | - | - | | | - |
| Post conditions | If the logout is successful, The system shall remove the session of the user and redirect to the log in page. | | | | |
| Normal flow | User | | System | | |
|  | 1.User click logout button . | | 2.System remove the session of user.  3.System redirect user to the login page. | | |
| Alternative Flow | - | | | | |
| Exception Flow | - | | | | |
| Assumption | Actor must already logged in. | | | | |

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| Use Case ID | UC-03 | | | | |
| Use Case Name | Register | | | | |
| Created By | Nattapat Tamtrakool | | Last Update By | Nattapat Tamtrakool | |
| Date Created | 4/11/2018 | | Last Revision Date | 4/11/2018 | |
| Actors | New farmer | | | | |
| Description | Registration for new farmer. | | | | |
| Trigger | User enter registration page. | | | | |
| Preconditions | User doesn’t has a valid account. | | | | |
| Use Case Input Specification | | | | | |
| Input | type | Constraint | | | Example |
| Username | String | - | | | Sunjido |
| Password | String | - | | | Sunnoobeieiza55 |
| First name | String | - | | | Pumipat |
| Last name | String | - | | | Tippayawong |
| Email | String | - | | | Yoyo@hotmail.com |
| Phone number | String | - | | | 0815559687 |
| Post conditions | If the registration is successful, The system shall wait for the administrator to approve the registration. | | | | |
| Normal flow | User | | System | | |
|  | 1.User input their personal information. | | 2.System validate user information [A1:Format is incorrect] [A2:User doesn’t fill all information needed.]  3.System provide confirmation pop-up.  [A3:User click confirm button ][A4:User click cancel button] | | |
| Alternative Flow | [A1]:Format is incorrect  1.System will notify user “Incorrect format”.  2.Go back to normal flow 1  [A2]: User doesn’t fill all information needed  1.System will notify user “Please fill in all required fields”.  2.Go back to normal flow 1  [A3]:User click confirm button  1.System shall add new account into database.  2.System notify user “Register successful! Wait for administrator  to approve”.  3.System will wait for administrator to approve the registration. | | | | |
| Exception Flow | - | | | | |
| Assumption | New farmer should know the farmer id before register for farmer account . | | | | |

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| --- | --- | --- | --- | --- | --- |
| Use Case ID | UC-04 | | | | |
| Use Case Name | Approve registration request | | | | |
| Created By | Nattapat Tamtrakool | | Last Update By | Nattapat Tamtrakool | |
| Date Created | 4/11/2018 | | Last Revision Date | 4/11/2018 | |
| Actors | Administrator | | | | |
| Description | Approved new famer registration request by administrator. | | | | |
| Trigger | Administrator enter new farmer page. | | | | |
| Preconditions | - The administrator must be connected to the internet  - The administrator must login with an administrator account | | | | |
| Use Case Input Specification | | | | | |
| Input | type | Constraint | | | Example |
| - | - | - | | | - |
| Post conditions | The new farmer account will added to the database . | | | | |
| Normal flow | User | | System | | |
|  | 1.Administrator click approve button on the new farmer account.  3.Administrator click confirm button. | | 2.The system show confirmation pop-up button.  4.The system approve the new farmer account  5.The system notify “The new farmer account has been approving from the system”.  6. The system display the list of new farmer account that is in the database to the administrator. | | |
| Alternative Flow | - | | | | |
| Exception Flow | - | | | | |
| Assumption | Have a new farmer account that want to approve. | | | | |

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| Use Case ID | UC-05 | | | | |
| Use Case Name | Remove new farmer account | | | | |
| Created By | Nattapat Tamtrakool | | Last Update By | Nattapat Tamtrakool | |
| Date Created | 4/12/2018 | | Last Revision Date | 4/12/2018 | |
| Actors | Administrator | | | | |
| Description | Remove new farmer account by using farmer’id | | | | |
| Trigger | Administrator enter new farmer page. | | | | |
| Preconditions | - The administrator must be connected to the internet  - The administrator must login with an administrator account | | | | |
| Use Case Input Specification | | | | | |
| Input | type | Constraint | | | Example |
| - | - | - | | | - |
| Post conditions | The new farmer account will removed from the system. | | | | |
| Normal flow | User | | System | | |
|  | 1.Administrator click remove button on the new farmer account.  3.Administrator click confirm button. | | 2.The system show confirmation pop-up button.  4.The system remove the new farmer account  5.The system notify “The new farmer account has been removed from the system”.  6. The system display the list of new farmer account that is in the database to the administrator. | | |
| Alternative Flow | - | | | | |
| Exception Flow | - | | | | |
| Assumption | Have a new farmer account that want to remove. | | | | |

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| Use Case ID | UC-06 | | | | |
| Use Case Name | View farmer account | | | | |
| Created By | Nattapat Tamtrakool | | Last Update By | Nattapat Tamtrakool | |
| Date Created | 4/12/2018 | | Last Revision Date | 4/12/2018 | |
| Actors | Administrator | | | | |
| Description | View the list of new farmer account in the system, which  will include username, name, last name, and telephone number. | | | | |
| Trigger | Administrator enter new farmer page. | | | | |
| Preconditions | - The administrator must be connected to the internet  - The administrator must login with an administrator account | | | | |
| Use Case Input Specification | | | | | |
| Input | type | Constraint | | | Example |
| Username | String | - | | | kamiOchi01 |
| Password | String | - | | | Mamipoko55 |
| Last name | String | - | | | Tamtrakool |
| Phone number | String | - | | | 0805449644 |
| Post conditions | Administrator can view the list of new farmer account. | | | | |
| Normal flow | User | | System | | |
|  | 2.User fill all information needed  3.User click submit button | | 1.System provide new farmer page including “submit button”  4.System retrieve the list of new farmer account from the database.  5.System display the list of new famer account. | | |
| Alternative Flow | - | | | | |
| Exception Flow | - | | | | |
| Assumption | -. | | | | |

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| Use Case ID | UC-07 | | | | |
| Use Case Name | Edit farmer personal information. | | | | |
| Created By | Nattapat Tamtrakool | | Last Update By | Nattapat Tamtrakool | |
| Date Created | 4/12/2018 | | Last Revision Date | 4/12/2018 | |
| Actors | Administrator | | | | |
| Description | View the list of new farmer account in the system, which  will include username, name, last name, and telephone number. | | | | |
| Trigger | Administrator enter new farmer page. | | | | |
| Preconditions | - The administrator must be connected to the internet  - The administrator must login with an administrator account | | | | |
| Use Case Input Specification | | | | | |
| Input | type | Constraint | | | Example |
| Username | String | - | | | kamiOchi01 |
| Password | String | - | | | Mamipoko55 |
| Last name | String | - | | | Tamtrakool |
| Phone number | String | - | | | 0805449644 |
| Post conditions | Administrator can view the list of new farmer account. | | | | |
| Normal flow | User | | System | | |
|  | 2.User fill all information needed  3.User click submit button | | 1.System provide new farmer page including “submit button”  4.System retrieve the list of new farmer account from the database.  5.System display the list of new famer account. | | |
| Alternative Flow | - | | | | |
| Exception Flow | - | | | | |
| Assumption | -. | | | | |