System Requirements Statement (SRS) –

Online Nursery Store System

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# Introduction

This document explains the system requirements and scope for developing **Online Nursery Store System**

**Online Nursery Store System** could divide the four main parts, Customer part, Vendor part, Admin part and the acknowledgement part. Online Nursery Store overcomes lots of challenges when compared to an offline store. A separate website for plants and their accessories helps customers to view various kinds of products.

# Functional Requirements

The Account part of Online Nursery Store System has three modules which are divided 13 processes described as below.

|  |  |  |
| --- | --- | --- |
| **No** | **BRS requirement ID** | **Description** |
| **2.1** | **Customer Module** | |
| **2.1.1** | **F1** | **Account Creation Process** |
| **2.1.2** | **F2** | **Login Process** |
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|  |  |  |
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|  |  |  |
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| **2.3.3** | **F17** | **Manage Dashboard** |
| **2.3.4** | **F18** | **Report Generation** |
| **2.3.5** | **F19** | **Account Management** |
| **2.3.6** |  |  |
| **2.4 Message Acknowledgement Module** | | |
| **2.4.1** | **F20** | **Sends Messages of Acknowledgement** |

## Customer Module

* Customer is the user of system who wants to sale the product.

* He is also able to view the market prices of products.

### Account Creation Process

* Online Nursery Store System compels to create the account before using it. So, E-Farming System should provide the function which makes farmer creates new account.
* When Customer creates new account, the function demands four information described as below.
* Visit the website: Go to the online nursery store's website using a web browser on your computer or mobile device.
* Find the account creation option: Look for a prominent link or button that says something like "Sign Up" or "Create an Account." It is usually located in the header or top navigation bar of the website.
* Click on the account creation link: Click on the provided link or button to initiate the account creation process.
* Provide personal information: You will be asked to fill out a form with your personal details. Typically, this includes your full name, email address, and password. Some platforms may also ask for additional information such as your address or phone number.
* Choose a username: Select a unique username that will be used to identify your account. Sometimes, the platform may suggest available usernames based on your name or email address.
* Verify your email address: In order to activate your account and ensure that you are the rightful owner of the provided email address, you may need to verify it. This usually involves clicking on a verification link sent to the email address you provided during the registration process.
* Complete the account creation: Once you have filled out all the required information, verified your email address, and reviewed the terms and conditions, submit the registration form.
* Account activation: After submitting the form, the platform may display a confirmation message indicating that your account has been successfully created. In some cases, you may need to wait for an email confirmation stating that your account is now active and ready to use.
* Log in: Once your account is activated, you can log in using the email address and password you provided during the registration process.

1. Login information
2. Contact Details

* The Login information

The Login information consists of some items described as below.

1. UserID
2. Password
3. First Name
4. Last Name
5. E-mail address
6. User Type
   * All items are compulsory demanded.
   * UserID

* The UserID should be unique. If the UserID correspond with not case-sensitive to other which is previously registered, the UserID should not be registered as an account.
  + Password
* The Password has constrains which makes the Password consists of more than or equal 8 and less than or equal 16 characteristics including characters described as below.

1. Numeric figure (at least one)
2. Capital alphabet (A-Z)(at least one)
3. Small alphabet (a-z)(at least one)
4. Special character (#, $, %, &, etc.) (at least one)

* The Password is masked by dummy characters. The re-entering Password is demanded.
* The Password must be encrypted in e-Farming System.
  + User Type

The User Type falls into three categories described as below.

1. Customer
2. Vendor
3. Administrator

* The User Type defines also three types of user, "customer", "admin user", and "vendor”.
* In an Account Creation Process, the user can select customer.
* No one could select The Administrator, because Administrator is implemented to online nursery store System in advance.
* Contact Details
* The Contact Detail consists of some items described as below.

1. Permanent Address
2. Contact Phone No
   * All items are compulsory demanded.
   * Permanent Address

* Permanent Address should be filled.
* But only the state should be selected from options.
* The Security Question information

The Security Question information is needed when farmer lost their Password. This information consists of two items described as below.

1. Selected Question
2. Answer
   * All items are compulsory demanded.
   * Some questions which are difficult to answer for anyone else are prepared in advance.

E.g. which color do you like most?

* + A question should be selected from options by the farmer, and the Answer is registered by the farmer.
* Login information should be entered on one screen, and then farmer information and Security Question information should be entered on another screen.

### Login Process

* Online Nursery Store System always compels user authentication before using itself except when a new account is successfully created.
* The user authentication demands UserID and Password. The UserID and the Password should be checked in three ways.
  + First, The UserID and the Password should be existed and correct.
* If The UserID and the Password are not equal to what the user has registered, the user authentication cannot be provided.
  + Second, the User Type linked to the UserID should be "customer".
* When the User Type is "Customer", then user can be placed on “Customer Home”.
  + Finally, UserID should be available.
* The Administrator can decide whether the UserID is available or suspended – Refer to the SRS of the Admin part.
* If farmer is rejected, user authentication is not provided for system user.
* The Customer account should alive for so long as the duration decided by Admin.
* Only when the three checks are successfully completed, Customer can be placed on respected page.
* The “Customer Home” provides the some items described as below.

1. A trigger to logout
2. A trigger to Change Password
3. A trigger to Search Product
4. A trigger to Add product
5. A trigger to Delete Product

### Forgot Password Process

* When system user lost their Password, the recovery method should be provided by online nursery store system.

The recovery method is described as below.

* + First, system user enters their UserID for online nursery store System.
  + Next, online nursery store System demands the Answer which has been registered since when the Account was created.
  + Only when the Answer is correct, farmer get the new password by E-mail which also has been registered since when the Account was created.
  + The new password is automatically generated by online nursery store System.
* Of course, the new password should consist of more than or equal 8 and less than or equal 16 characteristics including at least a numeric figure, a capital alphabet, a small alphabet, and a special character.
* As a consequence, The customer could get the customer authentication using the new password.
  + Then, the customer had better change the new password manually.
* If the Answer is not correct, otherwise, the correct Answer is demanded for user again.
  + In that case, Of course, customer couldn’t get the new password.

### Change Password Process

* When customer wants to change their Password, the measure should be provided by online nursery store system.
* Therefore, online nursery store system should provide the function which is available after getting the customer authentication.
* The function demands the current password and the new password.
  + Of course, the new password should consist of more than or equal 8 and less than or equal 16 characteristics including at least a numeric figure, a capital alphabet, a small alphabet, and a special character.
  + The current password and the new password are masked by using dummy characters.
  + The new password is demanded to enter twice to avoid a typing error.
* Only when the current password is correct, customer could change their Password.
* When the current password is changed into new password, online nursery store system compels user authentication again.

**1.1.5 Search product**

* Search conditions are described as below.

1. Product category
2. Price range

**1.1.6 Add product**

* Add products to cart:

1.product details

2.product price

**1.1.7 Delete product**

* Delete products from cart:

1.product details

2.product price

**2.Vendor Module**

### 2.1 Account Creation Process

* Online Nursery Store System compels to create the account before using it. So,Online Nursery Store System should provide the function which makes Customer creates new account.
* When Customer creates new account, the function demands four information described as below.

1. Login information

2.Contact Details

3.Security Question Information

4.Payment information.

* The Login information

The Login information consists of some items described as below.

5.UserID

6.Password

7.First Name

8.Last Name

9.E-mail address

10.User Type

* + All items are compulsory demanded.
  + UserID
* The UserID should be unique. If the UserID correspond with not case-sensitive to other which is previously registered, the UserID should not be registered as an account.
  + Password
* The Password has constrains which makes the Password consists of more than or equal 8 and less than or equal 16 characteristics including characters described as below.

1.Numeric figure (at least one)

2.Capital alphabet (A-Z)(at least one)

3.Small alphabet (a-z)(at least one)

4.Special character (#, $, %, &, etc.) (at least one)

* The Password is masked by dummy characters. The re-entering Password is demanded.
* The Password must be encrypted in System.Online Nursery store System
  + User Type

The User Type falls into three categories described as below.

1.Customer

2.Vendors

3.Admin

* The User Type defines also three types of user; " Customer user, "vendor user", and "Admin user”.
* In an Account Creation Process, the user can select vendor.
* Contact Details
* The Contact Detail consists of some items described as below.

1.Permanent Address

2.Contact Phone No

* + All items are compulsory demanded.
  + Permanent Address
* Permanent Address should be filled.
* But only the state should be selected from options.
* The Security Question information

The Security Question information is needed when Customer lost their Password. This information consists of two items described as below.

1. Selected Question
2. Answer
   * All items are compulsory demanded.
   * Some questions which are difficult to answer for anyone else are prepared in advance.

E.g. which color do you like most?

* + A question should be selected from options by the vendor, and the Answer is registered by the vendor.
* Login information should be entered on one screen, and then vendors information and Security Question information should be entered on another screen.

## Login Process

* Online Nursery Store System always compels vendor authentication before using itself except when a new account is successfully created.
* The user authentication demands UserID and Password. The UserID and the Password should be checked in three ways.
  + First, The UserID and the Password should be existed and correct.
* If The UserID and the Password are not equal to what the user has registered, the user authentication cannot be provided.
  + Second, the User Type linked to the UserID should be "user".
* When the User Type is "Vendor ", user can be placed on “Vendor Home”.
  + Finally, UserID should be available.
* The Admin can decide whether the UserID is available or suspended – Refer to the SRS of the Admin part.
* If user is rejected, user authentication is not provided for vendor.
* The Vendor account should alive for so long as the duration decided by Admin.
* Only when the three checks are successfully completed, Vendor can be placed on respected page.
* The “Vendor Home” provides the some items described as below.

1. A trigger to logout
2. A trigger to forgot password
3. A trigger to Change Password
4. A trigger to add Product
5. A trigger to Delete Product
6. A trigger to cancel products

## Forgot Password Process

* When Vendor lost their Password, the recovery method should be provided by Online Nursery Store system.

The recovery method is described as below.

* + First, Vendor enters their UserID for Online Nursery Store System.
  + Next, Online Nursery Store System demands the Answer which has been registered since when the Account was created.
  + Only when the Answer is correct, Vendor get the new password by E-mail which also has been registered since when the Account was created.
  + The new password is automatically generated by Online Nursery Store System.
* Of course, the new password should consist of more than or equal 8 and less than or equal 16 characteristics including at least a numeric figure, a capital alphabet, a small alphabet, and a special character.
* As a consequence, The Vendor could get the user authentication using the new password.
  + Then, the Vendor had better change the new password manually.
* If the Answer is not correct, otherwise, the correct Answer is demanded for Vendor again.
  + In that case, Of course, Vendor couldn’t get the new password.

## Change Password Process

* When Vendor wants to change their Password, the measure should be provided by Online Nursery Store System.
* Therefore, Online Nursery Store System should provide the function which is available after getting the Vendor authentication.
* The function demands the current password and the new password.
  + Of course, the new password should consist of more than or equal 8 and less than or equal 16 characteristics including at least a numeric figure, a capital alphabet, a small alphabet, and a special character.
  + The current password and the new password are masked by using dummy characters.
  + The new password is demanded to enter twice to avoid a typing error.
* Only when the current password is correct, Vendor could change their Password.
* When the current password is changed into new password, Online Nursery Store System compels Vendor authentication again.

**2.5 Add product**

* Add products to cart:

1.product details

2.product price

**2.6 Delete product**

* Delete products from cart:

1.product details

2.product price

**2.7 Cancel Order**

• Before paying Wholesaler can cancel the order in following condition

1. If the product does not fulfil the requirement.

2. If price goes out of his budget.

Browse existing product Price

• Vendor could see the information of existing product**s.**

#### 3.Admin Module

**3.1 Login process**

* Online Nursery Store System always compels user authentication before using itself except when a new account is successfully created.
* The user authentication demands UserID and Password. The UserID and the Password should be checked in three ways.
  + First, The UserID and the Password should be existed and correct.
* If The UserID and the Password are not equal to what the admin has registered, the Admin authentication cannot be provided.
  + Second, the User Type linked to the UserID should be "Admin".
* When the User Type is "Admin", user can be placed on “Admin Home”.
  + Finally, UserID should be available.
* The Administrator can decide whether the UserID is available or suspended – Refer to t
* .0he SRS of the Admin part.
* If user is rejected, user authentication is not provided for system user.
* The Admin account should alive for so long as the duration decided by Admin.
* Only when the three checks are successfully completed, Admin can be placed on respected page.
* The “Admin Home” provides the some items described as below.

1. A trigger to logout
2. A trigger to forgot password
3. A trigger to Change Password
4. A trigger to Search Product
5. A trigger to Publish Product for sale
6. A trigger to Update Product Information
7. A trigger to Delete Product

### 3.2 Forgot Password Process

* When Admin lost their Password, the recovery method should be provided by Online Nursery Store system.

The recovery method is described as below.

* + First, Admin enters their UserID for Online Nursery Store System.
  + He will enter the E-mail id since when the Account was created.
  + Only when the E-mail Id is correct, Admin get the new password by E-mail which also has been registered since when the Account was created.
  + The new password is automatically generated by Online Nursery Store System.
* Of course, the new password should consist of more than or equal 8 and less than or equal 16 characteristics including at least a numeric figure, a capital alphabet, a small alphabet, and a special character.
* As a consequence, The Admin could get the Admin authentication using the new password.
  + Then, the Admin had better change the new password manually.

### 3.3 Change Password Process

* When Admin wants to change his Password, the measure should be provided by Online Nursery Store System.
* Therefore, Online Nursery Store System should provide the function which is available after getting the Admin authentication.
* The function demands the current password and the new password.
  + Of course, the new password should consist of more than or equal 8 and less than or equal 16 characteristics including at least a numeric figure, a capital alphabet, a small alphabet, and a special character.
  + The current password and the new password are masked by using dummy characters.
  + The new password is demanded to enter twice to avoid a typing error.
* Only when the current password is correct, Admin could change his Password.
* When the current password is changed into new password, Online Nursery Store System compels user authentication again.

### 3.4 Record Generation

• Admin should able to see all the records from any users.

• Daily report of enrolment to admin.

• Monthly report of enrolment as per the states to admin.

### *3.5* Accounts Management

• Admin should able to manage all the accounts with following activities,

1. Enable accounts

2. Disable accounts

## *Message Acknowledgement Module*

• In following conditions acknowledgement to be send

1. After completion of successful registration.
2. After every successful transaction (buy).
3. Now the messages are being sent by using email but in future we can have mobile sms.

#### 2.5 Use Case Diagram

**admin**

***Fig. Use case diagram for admin***

**Admin:**

1. In Admin use case diagram Admin is the Actor.
2. Admin can handle following use cases:
3. Login
4. Forgot Password
5. Manage Dashboard
6. Account Management
7. Report

*\*

***Customer***

*Fig.* ***Use case diagram for Customer***

**Customer:**

1. customer can handle following use cases:
2. Account creation process
3. Login process
4. Forgot password process
5. Change password
6. Search product
7. Add product into cart
8. Delete product into cart

**Vendor**

*Fig. Use case diagram for Vendor*

**Vendor:**

1. Vendor can handle following use cases:
2. Account Creation Process
3. Login Process
4. Forgot Password
5. Change process
6. Add
7. Delete product
8. Cancel order