System Requirements Statement (SRS) –

BoxOfficeBuddy

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Created by : Kenji Tanaka

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# Introduction

This document explains the system requirements and scope for developingBoxOfficeBuddy system.

BoxOfficeBuddy System could divide the three main parts, Userpart,Theatre owner part,Admin part and the acknowledgement part.

This document describesthe system requirement of the Accountpart.

# Functional Requirements

The Account partof BoxOfficeBuddy System has three modules which are divided 13 processes described as below.

|  |  |  |
| --- | --- | --- |
| **No** | **BRS requirement ID** | **Description** |
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| **2.3.6** | **F26** | **Upload details** |
| **2.3.7** | **F27** | **View Sales Report** |
| **2.4 Message Acknowledgement Module** | | |
| **2.4.1** | **F27** | **Sends Messages of Acknowledgement** |

## User Module

* The user of the system can book tickets for movies, view available shows, and manage their account.

### Account Creation Process

* BoxOfficeBuddy System compels to create the account before booking ticket. So, BoxOfficeBuddy System should provide the function which makes user creates new account.
* When user creates new account, the function demands information described as below.

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 thanor equal 8 and less than or equal 16 characteristics includingcharacters described as below.

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

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

The User Type falls into three categories described as below.

1. User
2. Theatre Owner
3. Administrator
4. The User Type defines also three types of user:
5. " User"," Theatre Owner", and "Administrator”.

* In an Account Creation Process, the user can select User.
* No one could select The Administrator, because Administrator is implemented to BoxOfficeBuddy 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 befilled.
* But only the state should be selected from options.
* The Security Question information

The Security Question information is needed when User 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 user, and the Answer is registered by the user.
* Login information should be entered on one screen, and then user information and Security Question information should be entered on another screen.

### Login Process

* BoxOfficeBuddy 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 "User".
* When the User Type is "User", then user can be placed on “User 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 user is rejected, user authentication is not provided for system user.
* The User account should alive for so long as the duration decided by Admin.
* Only when the three checks are successfully completed, user can be placed on respected page.
* The “User Home” provides the some items described as below.

1. A trigger to logout
2. A trigger to updateAccount
3. A trigger to Change Password
4. A trigger to Search Movies
5. A trigger to Book Tickets
6. A trigger to View Booking History
7. A trigger to Cancel Booking
8. A trigger to Browse Available Shows

### Forgot Password Process

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

The recovery method is described as below.

* + First, system user enters their UserID for BoxOfficeBuddy system.
  + Next BoxOfficeBuddy System demands the Answer which has been registered since when the Account was created.
  + Only when the Answer is correct, user 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 BoxOfficeBuddy System.
* Of course, the new password should consist of more thanor equal 8 and less than or equal 16 characteristics includingat least a numeric figure, a capital alphabet, a small alphabet, and a special character.
* As a consequence, The User could get the user authentication using the new password.
  + Then, the user 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, user couldn’t get the new password.

### Change Password Process

* When user wants to change their Password, the measure should be provided by BoxOfficeBuddy System.
* Therefore, BoxOfficeBuddy System should provide the function which is available after getting the user 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 includingat 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, user could change their Password.
* When the current password is changed into new password, BoxOfficeBuddy System compels user authentication again.

### Update Account Process

* BoxOfficeBuddy System should provide the function which makes the account updated for user.
* The information farmer could update is described below.

1. Login information
2. User information
3. Security Question Information

* The Login information

The updatable items as described below.

1. First Name
2. Last Name
3. E-mail address
   * All items are compulsory demanded, but updating is optional.

* The User information

The updatable items as described below.

1. User Name
2. User Phone No
3. E-mail address
4. Permanent address
   * All items are compulsory demanded, but updating is optional.

* The Security Question information

The updatable items as described below.

1. Selected Question
2. Answer
   * All items are compulsory demanded, but updating is optional.

### Search Movies

* Search conditions are described as below.

1. Movie category(New Release, Top Rated, Upcoming)
2. Movie Genres(Action, Drama, Comedy, Romance)
3. Show times
4. Language

### Book Tickets

* Users can book tickets by selecting below:

1. Movie
2. Showtime
3. Seat

### View Booking History

* Users can view their booking history including past and upcoming shows.

### Cancel Booking

* Users can cancel bookings under certain conditions, such as before the show time.

### Browse Available Shows

* Users can browse through available shows and their details.

### Give Feedback

* Users can give feedback after watching movie.

#### Wholesaler Modulect

### Account Creation Process

* E-Farming System compels to create the account before using it. So, E-Farming System should provide the function which makes farmer creates new account.
* Whenfarmer creates new account, the funion demands four information described as below.

1.Login information

2.Contact Details

3.SecurityQuestionInformation

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 UserIDcorrespond 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 thanor equal 8 and less than or equal 16 characteristics includingcharacters described as below.

1.Numericfigure (at least one)

2.Capitalalphabet (A-Z)(at least one)

3.Smallalphabet (a-z)(at least one)

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

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

The User Type falls into three categories described as below.

1.Farmer

2.Wholesaler

3.Administrator

* The User Type defines also three types of user;"Wholesaleruser","Wholesaler user", and "Administrator user”.
* In an Account Creation Process, the user can selectWholesaler.
* No one could select The Administrator, because Administrator is implemented to e-Farming 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 befilled.
* But only the state should be selected from options.
* The Security Question information

The Security Question information is needed when Wholesalerlost 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 Wholesaler, and the Answer is registered by the Wholesaler.
* Login informationshould be entered on one screen, and thenWholesaler information and Security Question information should be entered on another screen.

### Login Process

* E-Farming System always compels Wholesalerauthenticationbefore using itself except when a new account is successfully created.
* The user authenticationdemands 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 theuser hasregistered, the user authentication cannot be provided.
  + Second, the User Type linked to the UserID should be "user".
* When the User Type is "Wholesaler", user can be placed on “WholesalerHome”.
  + Finally, UserIDshould be available.
* The Administrator 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 Wholesaler.
* The Wholesaleraccount should alive for so long as the duration decided by Admin.
* Only when the three checks are successfully completed, Wholesalercan be placed on respected page.
* The “WholesalerHome” provides the some items described as below.

1. A trigger to logout
2. A trigger to updateAccount
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
8. A trigger to Browse existing Market price

### Forgot Password Process

* When Wholesalerlost their Password, the recovery method should be provided by e-Farming system.

Therecovery method is described as below.

* + First, Wholesalerenters theirUserID for e-Farming System.
  + Next, E-Farming System demands the Answer which has been registered since when the Account was created.
  + Only when the Answer is correct, Wholesalerget the new password by E-mail which also has been registered since when the Account was created.
  + The new password is automatically generated by e-Farming System.
* Of course, the new password should consist of more thanor equal 8 and less than or equal 16 characteristics includingat least a numeric figure, a capital alphabet, a small alphabet, and a special character.
* As a consequence, The Wholesalercould get the user authentication using the new password.
  + Then, the Wholesalerhad better change the new password manually.
* If the Answer is not correct,otherwise, the correct Answer is demanded for Wholesaleragain.
  + In that case, Of course, Wholesalercouldn’t get the new password.

### Change Password Process

* When Wholesalerwants to change their Password, the measure should be provided by e-FarmingSystem.
* Therefore, E-Farming System should provide the function which is available after getting the Wholesalerauthentication.
* The function demands the current password and the new password.
  + Of course, the new password should consist of more thanor equal 8 and less than or equal 16 characteristics includingat least a numeric figure, a capital alphabet, a small alphabet, and a special character.
  + The current password and the new password are masked by usingdummy characters.
  + The new password is demanded to enter twice to avoid a typing error.
* Only when the current password is correct, Wholesalercould change their Password.
* Whenthe current password is changed into new password, E-Farming System compelsWholesalerauthentication again.

### Update Account Process

* E-Farming System should provide the function which makes the account updated for Wholesaler.
* The informationWholesalercould update isdescribed below.

1. Login information

2. Userinformation

3. Security QuestionInformation

* The Login information

The updatable items as described below.

1. First Name
2. Last Name
3. E-mail address
   * All items are compulsory demanded, but updating is optional.

* The User information

The updatable items as described below.

1. User Name
2. User Phone No
3. E-mail address
4. Permanent address
   * All items are compulsory demanded, but updating is optional.

* The Security Question information

The updatable items as described below.

1. Selected Question
2. Answer
   * All items are compulsory demanded, but updating is optional.

#### Search Product

• Search conditions are described as below.

1. Product category

2. Price range

• As the result of searching Requirements, Wholesalercould see the list of products which are available for sale.

1. Product name

2. Price

3. Quantity

4. Photos

#### Buy Product

• To buy the product followings are the condition

1. Product category

2. Price range

3. Product Quantity

4. Product Name

**2.2.8 Payback Process**

• In payback process system following are the conditions

1.If somehow order is not fulfil.

2. If wholesaler is not satisfied with product.

**2.2.9 Cancel Order**

• Before paying Wholesalercan 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

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

#### Admin Module

**•** Administratorshould be responsible for following activities**,**

### Login Process

* E-Farming System always compels user authenticationbefore using itself except when a new account is successfully created.
* The user authenticationdemands 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 theadmin hasregistered, the Adminauthentication 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, UserIDshould 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 Adminaccount 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 updateAccount
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
8. A trigger to Browse existing Market price

### Forgot Password Process

* When Adminlost their Password, the recovery method should be provided by e-Farming system.

Therecovery method is described as below.

* + First, Adminenters theirUserID for e-Farming System.
  + He will enter the E-mail id since when the Account was created.
  + Only when the E-mailId 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 e-Farming System.
* Of course, the new password should consist of more thanor equal 8 and less than or equal 16 characteristics includingat least a numeric figure, a capital alphabet, a small alphabet, and a special character.
* As a consequence, The Admin could get the Adminauthentication using the new password.
  + Then, the Adminhad better change the new password manually.

### Change Password Process

* When Adminwants to change his Password, the measure should be provided by e-FarmingSystem.
* Therefore, E-Farming System should provide the function which is available after getting the Adminauthentication.
* The function demands the current password and the new password.
  + Of course, the new password should consist of more thanor equal 8 and less than or equal 16 characteristics includingat least a numeric figure, a capital alphabet, a small alphabet, and a special character.
  + The current password and the new password are masked by usingdummy characters.
  + The new password is demanded to enter twice to avoid atyping error.
* Only when the current password is correct, Admincould change his Password.
* Whenthe current password is changed into new password, E-Farming System compels user authentication again.

### Update Account Process

* E-Farming System should provide the function which makes the account updated for Admin.
* The informationAdmincould update isdescribed below.

1. Login information
2. User information
3. Security QuestionInformation

* The Login information

The updatable items as described below.

1. First Name
2. Last Name
3. E-mail address
   * All items are compulsory demanded, but updating is optional.

* The User information

The updatable items as described below.

1. User Name
2. User Phone No
3. E-mail address
4. Permanent address
   * All items are compulsory demanded, but updating is optional.

* The Security Question information

The updatable items as described below.

1. Selected Question
2. Answer
   * All items are compulsory demanded, but updating is optional.

#### 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.

#### 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,sale).
3. Now the messages are being sent by using email but in future we can have mobile sms.

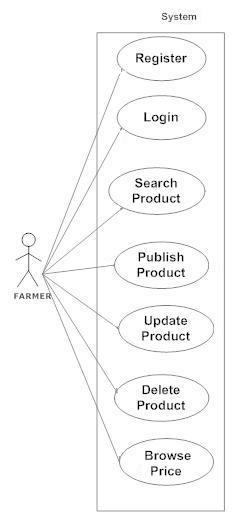
#### 2.5 Use Case Diagram

**Admin:**

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*Fig. Use case diagram for admin*

1. In Admin use case diagram Admin is the Actor.
2. Admin can handle following use cases:
3. Login
4. Report Generation
5. Controls account

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*Fig. Use case diagram for Farmer*

**Farmer:**

1. In Farmer use case diagram Farmer is the Actor.
2. Farmer can handle following use cases:
3. Register
4. Login
5. Search Product
6. Publish Product
7. Update Product
8. Delete Product
9. Browse Product Price

**Wholesaler:**

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*Fig. Use case diagram for Wholesaler*

1. In Wholesaler use case diagram Wholesaler is the Actor**.**
2. Wholesaler can handle following use cases:
3. Register
4. Login
5. Search Product
6. Buy Product
7. Payback
8. Cancel Order
9. Browse Product Price