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# System Requirements Statement (SRS) - Urban Gallery

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## **1. Introduction**

This document explains the system requirements and scope for developing Urban Gallery.

Urban Gallery could be divided in four main parts, Artist part, Customer part, Admin part and the acknowledgement part.

This document describes the system requirement of the Account part.

## 2. Functional Requirements

The Account part of Urban Gallery has three modules which are divided into 13 processes described as below.

No	BRS require ment ID	Description
<b>2.1 Artist Module</b>		
2.1.1	F1	Account Creation Process
2.1.2	F2	Login Process
2.1.3	F3	Forgot Password Process
2.1.4	F4	Change Password Process
2.1.5	F5	Update Account Process
2.1.6	F6	Search Product
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<b>2.2 Customer Module</b>		
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2.4.3	F29	Change Password Process
2.4.4	F30	Report Generation
2.4.5	F31	Account Management
<b>2.5 Message Acknowledgement Module</b>		
2.5.1	F33	Sends Messages of Acknowledgement

## 2.1 Artist Module

- Artist is the user of system who wants to sale the artwork.
- He is able to upload and delete the artwork.
- He is able to view the history of all orders and transaction.

### 2.1.1 Account Creation Process

- Urban Gallery compels to create the account before using it. So, Urban Gallery should provide the function which makes Artist to create new account.
- When Artist creates new account, the function demands two information described as below.

1. Login information
2. Contact Details

- The Login information  
The Login information consists of some items described as below.

1. User-ID
2. Password
3. First Name
4. Last Name
5. E-mail address
6. User Type

➤ All items are compulsory demanded.

➤ User-ID

- ✓ 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 four categories described as below.

1. Artist
2. Customer
3. Co-operate Customer
4. Administrator

- ✓ The User Type defines also four types of user , "Artist user", "Customer user", "Co-operate user", and "Administrator user".
- ✓ In an Account Creation Process, the user can select Artist.
- ✓ No one could select The Administrator, because Administrator is implemented to Urban Gallery in advance.

- Contact Details

- The Contact Detail consists of some items described as below.

1. Permanent Address
2. Contact Phone No
3. Email

➤ All items are compulsory demanded.

➤ Permanent Address

- ✓ Permanent Address should be filled.
- ✓ But only the state should be selected from options.
- ✓ Email should be filled.

- The Security Question information

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

### 2.1.2 Login Process

- Urban Gallery 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 "Artist".
    - ✓ When the User Type is "Artist", then user can be placed on "Artist 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 Artist is rejected, user authentication is not provided for system user.
- The artist account should alive for so long as the duration decided by Admin.
- Only when the three checks are successfully completed, artist can be placed on respected page.
- The "Artist Home" provides the some items described as below.
  1. A trigger to logout
  2. A trigger to update Account
  3. A trigger to Change Password
  4. A trigger to Publish Artwork for sale
  5. A trigger to Update Artwork Information
  6. A trigger to Delete Artwork
  7. A trigger to view history of sold Artwork

### 2.1.3 Forgot Password Process

- When system user lost their Password, the recovery method should be provided by Urban Gallery.  
The recovery method is described as below.
  - First, system user enters their UserID for Urban Gallery.
  - Next, Urban Gallery demands the Answer which has been registered since when the Account was created.
  - Only when the Answer is correct, Artist 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 Urban Gallery.
    - ✓ 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 Artist could get the authentication using the new password.
  - Then, the Artist 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, Artist couldn't get the new password.

### 2.1.4 Change Password Process

- When Artist wants to change their Password, the measure should be provided by Urban Gallery.
- Therefore, Urban Gallery should provide the function which is available after getting the Artist's 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, Artist could change their Password.
- When the current password is changed into new password, Urban Gallery compels user authentication again.

### 2.1.5 Update Account Process

- Urban Gallery should provide the function which makes the account updated for Artist.
- The information artist 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.

**1.1.7 Publish Artwork for sale**

- Publish products requirements are described as below.

1. Artwork category
2. Price
3. Artwork name
4. Description
5. Size
6. Photos

- Artist can see market prices before publishing products.

**1.1.8 Update Artwork information**

- After publishing the Artwork the Artist can only update following contents.
  1. Artwork Description
  2. Artwork price.

**1.1.9 Delete product information**

- After Publishing if Artist wants to remove some Artworks then he can delete the Artwork.

**1.1.10 View the sold Artwork**

Artist could see the information of sold Artwork.

## 2.2 Customer Module

### 2.2.1 Account Creation Process

- Urban Gallery System compels to create the account before using it. So, Urban Gallery System should provide the function which makes Customer creates new account.
- When Customer creates new account, the function demands three information described as below.

1. Login information
- 2.Contact Details
- 3.Payment information.

- The Login information  
The Login information consists of some items described as below.

- 4.UserID
- 5.Password
- 6.First Name
- 7.Last Name
- 8.E-mail address
- 9.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.

➤ User Type

The User Type falls into four categories described as below.

- 1.Artist
- 2.Customer
- 3.Corporate Customer
- 3.Administrator

- ✓ The User Type defines also four types of users; " Artist user", "Customer user", " Corporate User" and "Administrator user".
- ✓ In an Account Creation Process, the user can select Customers.
- ✓ No one could select The Administrator, because Administrator is implemented to Urban Gallery 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.

After Customer submits all required information. The information will be approved by Admin. Admin will decide according to the information submitted by the customer whether to approve the customer or not.

### **2.2.2 Login Process**

- Urban Gallery System always compels Customers 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 " Customer ", 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 user is rejected, user authentication is not provided for Customer.
- 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 some items described as below.
  1. A trigger to select the package
  2. A trigger to update Account
  3. A trigger to Change Password
  4. A trigger to Search Product
  5. A trigger to Browse through Categories
  6. A trigger to Browse through Size
  7. A trigger to Browse through Artist name
  8. A trigger to logout

### **2.2.3      Forgot Password Process**

- When Customer lost their Password, the recovery method should be provided by Urban Gallery system.

The recovery method is described as below.

  - First, Customer enters their UserID for Urban Gallery System.
  - The system will automatically send the reset password link on the email id Customer have put while creating the account.
  - The new password should be.
    - ✓ 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.
- After updating new password, the customer should re-login with Userid and new password.

### **2.2.4      Change Password Process**

- When Customer wants to change their Password, the measure should be provided by Urban Gallery System.
- Therefore, Urban Gallery 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, Wholesaler could change their Password.
- When the current password is changed into new password, Urban Gallery System compels Wholesaler authentication again.

### **2.2.5 Update Account Process**

- Urban Gallery System should provide the function which makes the account updated for Customer.
- The information Customer could update is described below.
  1. Login information
  2. User 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.
  4. User Name
  5. User Phone No
  6. E-mail address
  7. Permanent address
  - All items are compulsory demanded, but updating is optional.

### **2.2.6 Search Product**

- Search conditions are described as below.
  1. Artwork category
  2. Artist name
  3. Price range
  4. Size
  
- As the result of searching Requirements, Customer could see the list of Artworks which are available for sale.
  1. Artwork name
  2. Price
  3. Artwork details
  4. Photos
  5. Size

### **2.2.7 Add to Cart**

- The customer can add the Artwork to cart which they like.
- The customer will have option to remove the Artwork from the list which they don't want.

### **2.2.8 Order**

- To buy the Artwork followings are the condition
  1. Artwork category
  2. Price
  3. Artwork Quantity
  4. Artwork Name
  5. Artist Name

### **2.2.9 Payment Page**

The customer will be sent to payments page when they confirm their orders. Multiple payment option will be shown to customers such as cash on delivery or payment through UPI or Card Payment. Customer can choose through the options and move to next step.

### **2.2.10 Cancel Order**

- Customer can cancel the order in following condition



1. If the product does not fulfil the requirement.
2. If price goes out of his budget.

### **2.2.11 Order Status**

- Customer can see the live status of order placed.

## 2.3 Corporate Customer Module

- Corporate Customer is the user of system who wants to buy the art\_work.

### 2.3.1 Account Creation Process

- Urban Gallery System compels to create the account before using it. So, Urban Gallery should provide the function which makes customer creates new account.
- When Corporate customer creates new account, the function demands four information described as below.

1. Login information
2. Contact Details
3. Business Details
4. Security Question Information

- The Login information:  
The Login information consists of some items described as below.

- 5.UserID
- 6.Password
- 7.Cooperate Name
- 8.E-mail address
- 9.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 constraints 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 Urban Gallery.

- User Type

The User Type falls into three categories described as below.

- 1.Customer
- 2.Corporate Customer
- 3.Artist
- 4.Administrator

- ✓ The User Type defines also three types of user; " Customer user", "Corporate Customer user", "Artist" and "Administrator user".
- ✓ In an Account Creation Process, the corporate customer can select Artist.
- ✓ No one could select The Administrator, because Administrator is implemented to Urban Gallery 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 Corporate customer lost their Password. This information consists of two items described as below.

3. Selected Question
4. 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 Corporate Customer , and the Answer is registered by the Corporate Customer.

- Login information should be entered on one screen, and then Corporate Customer information and Security Question information should be entered on another screen.

### **2.3.2 Login Process**

- Urban Gallery always compels Corporate Customer 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 "Corporate Customer", user can be placed on "Corporate 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 user is rejected, user authentication is not provided for Corporate Customer.
- The Corporate Customer account should alive for so long as the duration decided by Admin.
- Only when the three checks are successfully completed, Corporate Customer can be placed on respected page.
- The "Corporate Customer Home" provides the some items described as below.
  9. A trigger to logout
  10. A trigger to update Account
  11. A trigger to Change Password
  12. A trigger to Search Product
  13. A trigger to Publish Product for sale
  14. A trigger to Update Product Information
  15. A trigger to Delete Product

### 2.3.3 Password Process

- When Corporate Customer lost their Password, the recovery method should be provided by Urban Gallery.  
The recovery method is described as below.
  - First, Corporate customer enters their UserID for Urban Gallery.
  - Next, Urban Gallery demands the Answer which has been registered since when the Account was created.
  - Only when the Answer is correct, Urban Gallery 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 Urban Gallery.
    - ✓ 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 Corporate Customer could get the user authentication using the new password.
  - Then, the Corporate Customer had better change the new password manually.
- If the Answer is not correct, otherwise, the correct Answer is demanded for Corporate Customer again.
  - In that case, Of course, Corporate Customer couldn't get the new password.

### 2.3.4 Change Password Process

- When Corporate Customer wants to change their Password, the measure should be provided by Urban Gallery.
- Therefore, Urban Gallery should provide the function which is available after getting the Corporate 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, Corporate Customer could change their Password.
- When the current password is changed into new password, Urban Gallery compels Corporate Customer authentication again.

### **2.3.5 Update Account Process**

- Urban Gallery should provide the function which makes the account updated for Corporate Customer.
- The information Corporate Customer could update is described below.

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

- The Login information  
The updatable items as described below.

8. Cooperate Name
9. E-mail address

➤ All items are compulsory demanded, but updating is optional.

- The User information  
The updatable items as described below.

10. Cooperate Name
11. Contact No
12. E-mail address
13. 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.

### **2.3.6 Search Product**

- Search conditions are described as below.
  1. Product category
  2. Price range
  3. Product size
- As the result of searching Requirements, Corporate Customer could see the list of products which are available for sale.
  1. Product name
  2. Price
  3. Quantity
  4. Photos

### **2.3.7 Buy Product**

- To buy the product followings are the condition
  1. Product category
  2. Price range
  3. Product Quantity
  4. Product Name
  5. Product Size

### **2.3.8 Payment Page**

The customer will be sent to payments page when they confirm their orders. Multiple payment option will be shown to customers such as cash on delivery or payment through UPI or Card Payment. Customer can choose through the options and move to next step.

### **2.3.9 Cancel Order**

- Before paying Corporate Customer 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

- Corporate Customer could see the information of existing products.

## 2.4 Admin Module

- Administrator should be responsible for following activities,

### 2.4.1 Login Process

- Urban Gallery 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 it
    - ✓ .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.
  - 16. A trigger to logout
  - 17. A trigger to update Account
  - 18. A trigger to Change Password
  - 19. A trigger to Search Artwork
  - 20. A trigger to Publish Artwork for sale
  - 21. A trigger to Update Artwork Information
  - 22. A trigger to Delete Artwork



### 2.4.2 Forgot Password Process

- When Admin lost their Password, the recovery method should be provided by Urban Gallery  
The recovery method is described as below.
- First, Admin enters their UserID for Urban Gallery.
  - 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 Urban Gallery
  - ✓ 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.

### 2.4.3 Change Password Process

- When Admin wants to change his Password, the measure should be provided by Urban gallery
- Therefore Urban gallery 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, Urban Gallery
- compels user authentication again.

#### **2.4.4 Record Generation**

- Admin should be 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.
- Daily report of payment as per the states to admin.
- Monthly report of membership as per the states to admin.
- Monthly report of sales as per the states to admin.

#### **2.4.5 Accounts Management**

- Admin should be able to manage all the accounts with following activities,
  1. Enable accounts
  2. Disable accounts
  3. Approval of Sale

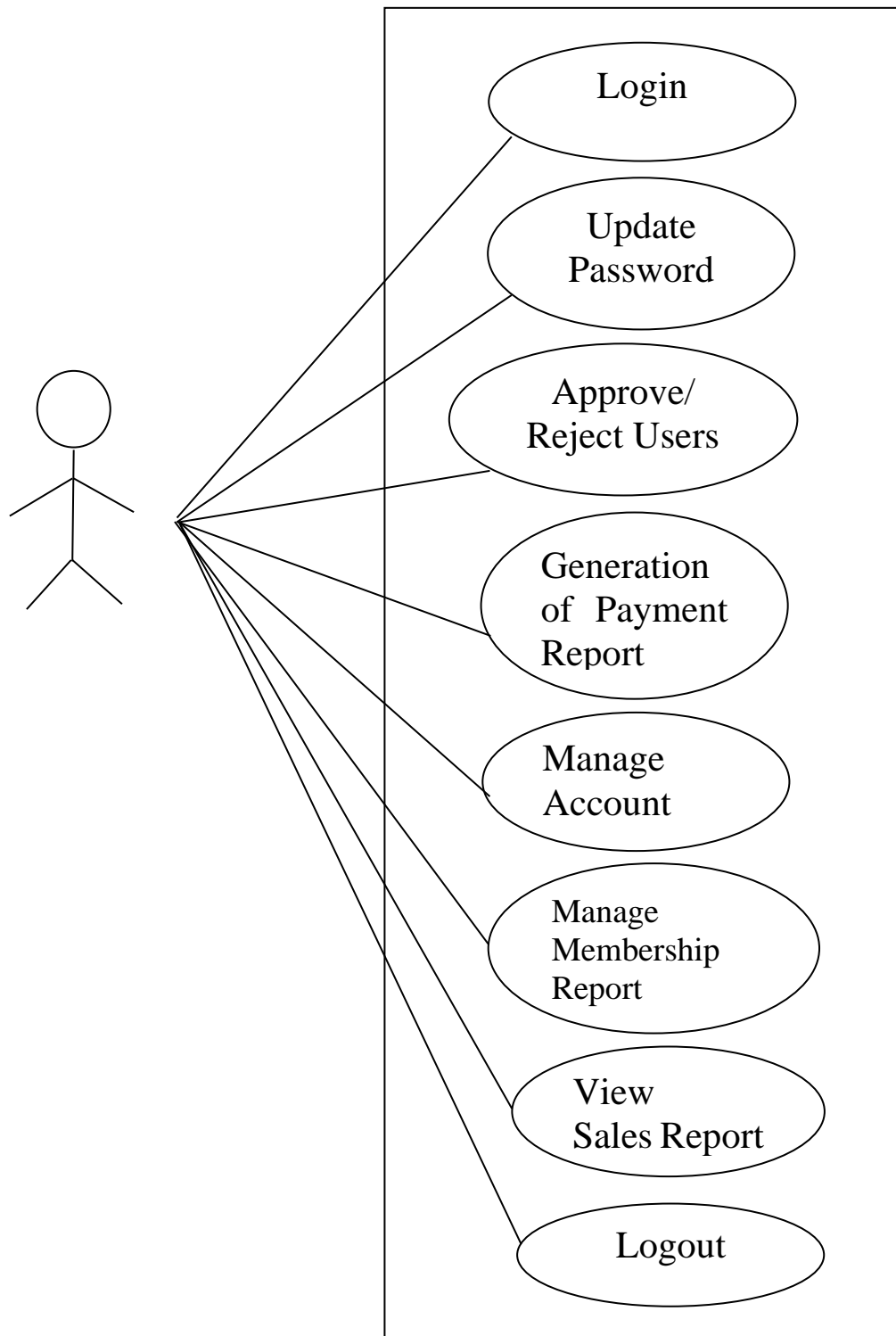
## 2.5 Message Acknowledgement Module

- 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.

## 2.6 Use Case Diagram

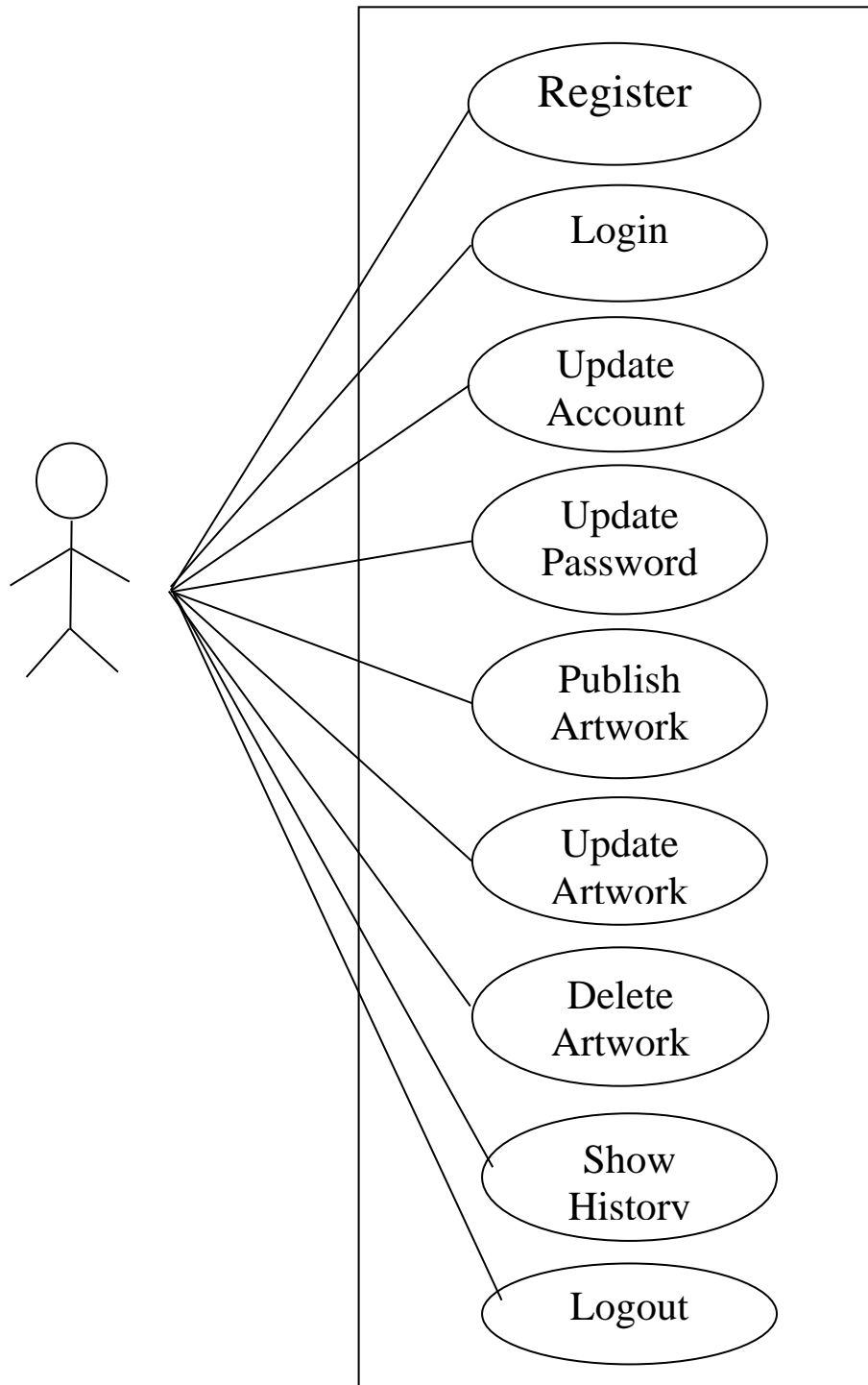
**Admin:**

*Fig. Use case diagram for admin*



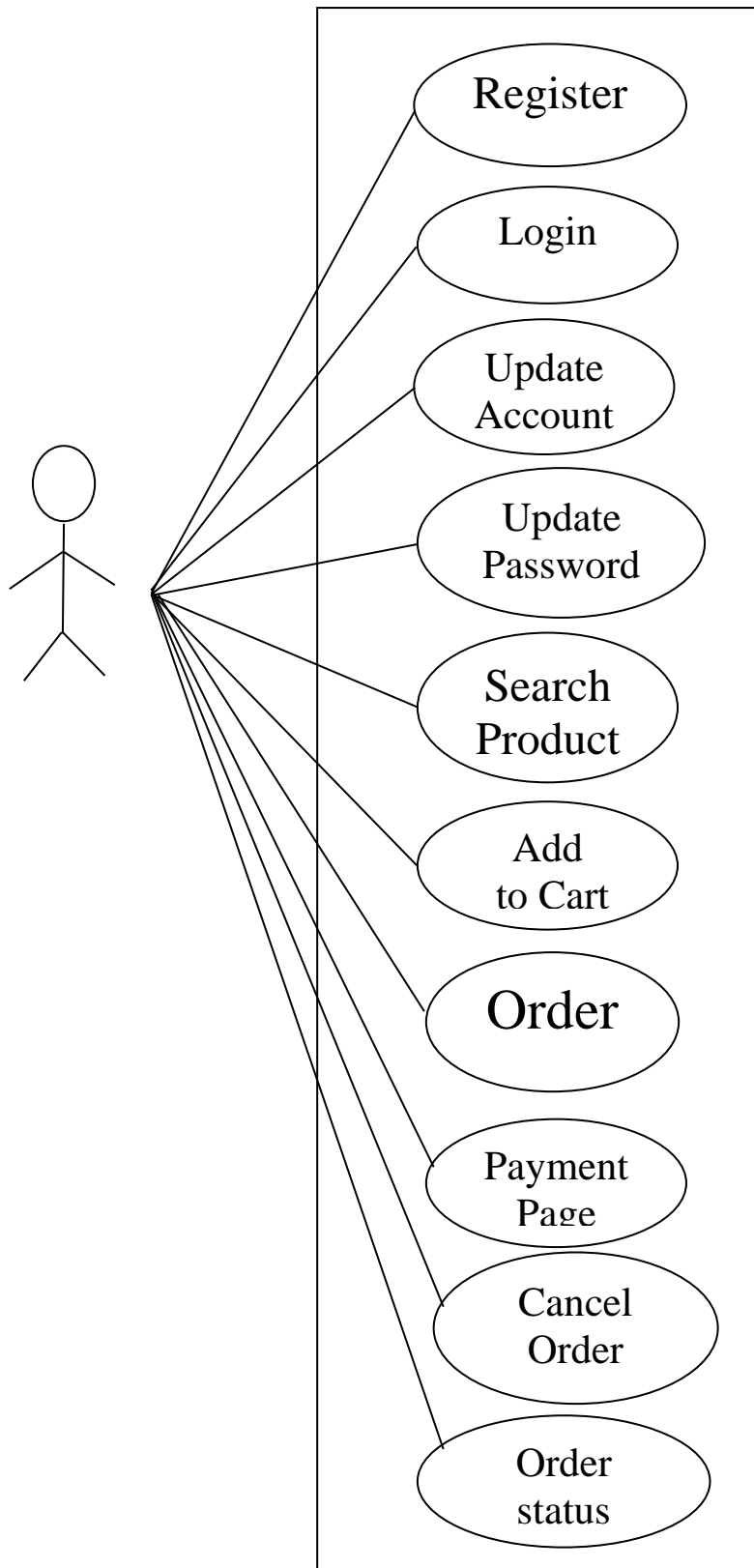
**Admin:**

1. In Admin use case diagram Admin is the Actor.
2. Admin can handle following use cases:
  - a. Login
  - b. Report Generation
  - c. Controls account

**Artist:***Fig. Use case diagram for Artist*

**Artist:**

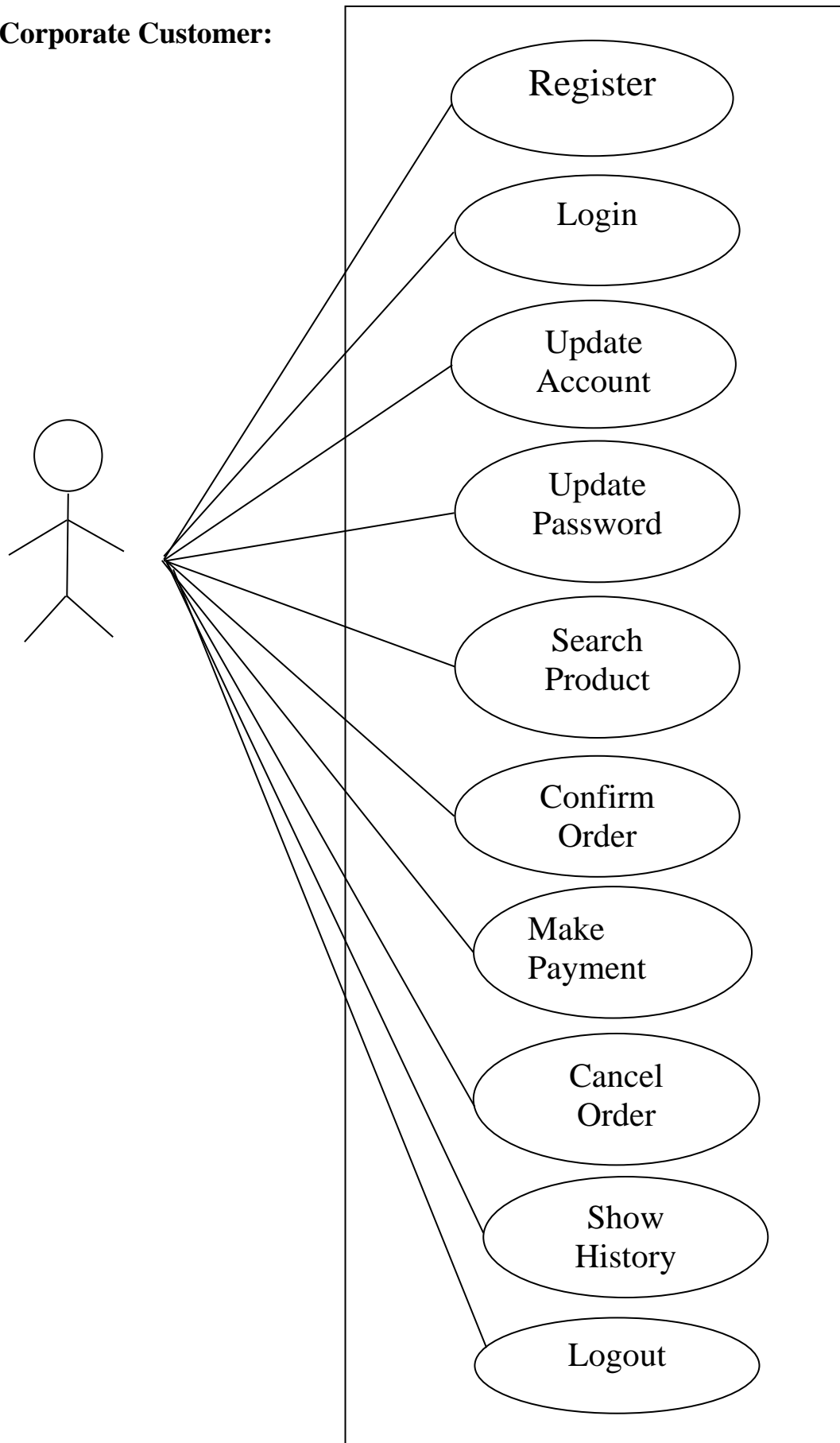
1. In Artist use case diagram Artist is the Actor.
2. Artist can handle following use cases:
  - a. Register
  - b. Login
  - c. Search Product
  - d. Publish Product
  - e. Update Product
  - f. Delete Product

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



**Customer:**

1. In Customer use case diagram Customer is the Actor.
2. Customer can handle following use cases:
  - a. Register
  - b. Login
  - c. Search Product
  - d. Buy Product
  - e. Payback
  - f. Cancel Order

**Corporate Customer:**

*Fig. Use case diagram for Corporate Customer*

**Corporate Customer:**

1. In Corporate Customer use case diagram Corporate Customer is the Actor.
2. Corporate Customer can handle following use cases:
  - g. Register
  - h. Login
  - i. Search Product
  - j. Buy Product
  - k. Payback
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