System Requirements Statement (SRS) –

BuildMart

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1. Introduction

This document explains the system requirements and scope for developing **BuildMart** System.

BuildMart System could divide the five main parts, Individual Customer, Construction material vendor, Labour, Construction Company, and Administrator part. This document describes the system requirement of the Account part.

2. Functional Requirements

The Account part of BuildMart System has Five modules which are divided 13 processes described as below.

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2.1 Individual Customer Module

- Individual customer is the user of system who wants to buy the construction site's material and also to search for its Labour.

- He is also able to view the market prices of products, material suppliers near his construction site.

2.1.1 Account Creation Process

- BuildMart System compels to create the account before using it. So, BuildMart System should provide the function which enables individual customers to create new account.

- When customer creates new account, the function demands four 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 which corresponds to previously registered UserId(case insensitive), that 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 BuildMart System.

➢ User Type

The User Type falls into five categories described as below.

       1. Individual customer

       2. Construction material vendor

       3. Construction company

       4. Labourr

       5. Administrator

✓ The User Type defines also five types of user; "Individual customer user", "Construction material vendor user", "Construction company user", "Labourr user" and "Administrator user".

✓ In an Account Creation Process, the user can select Individual customer.

✓ No one could select The Administrator, because Administrator is implemented to BuildMart 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 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 customer, and the Answer is registered by the customer.

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

2.1.2   Login Process

- BuildMart 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 "individual customer".
  ✓ When the User Type is "Individual customer", then user can be placed on "Individual 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 individual customer is rejected, user authentication is not provided for system user.

- The individual customer account should alive for so long as the duration decided by Admin.

- Only when the three checks are successfully completed, individual customer can be placed on respected page.

- The "Individual customer Home" provides 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 Search construction material or services required

5. A trigger to add the material to cart
6. A trigger to buy material added in cart
7. A trigger to make payment of buying material
8. A trigger to check order tracking
9. A trigger to see orders history month wise, year wise
10. A trigger to give feedback to vendors and Labour

2.1.3   Forgot Password Process

- When system user lost their Password, the recovery method should be provided by BuildMart system.
  The recovery method is described as below.

  ➢ First, system user enters their UserID for BuildMart System.

  ➢ Next, BuildMart System demands the Answer which has been registered since when the Account was created.

  ➢ Only when the Answer is correct, individual customer 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 BuildMart 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 Individual customer could get the individual customer authentication using the new password.
  ➢ Then, the individual 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, individual customer couldn't get the new password.

2.1.4   Change Password Process

- When individual customer wants to change their Password, the measure should be provided by BuildMart System.

- Therefore, BuildMart System should provide the function which is available after getting the individual 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, individual customer could change their Password.

- When the current password is changed into new password, BuildMart System compels user authentication again.

2.1.5   Update Account Process

- BuildMart System should provide the function which makes the account updated for individual customer.

- The information individual 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.

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.

2.1.6 Search construction material or service

☐ Search conditions are described as below.

1. Materials category or name
2. Service category

2.1.7 Add the material to cart and View Cart
• Add the material required to cart as follows.

1. Select the material
2. Click on add to cart
3. View cart.

• Individual customer can compare market prices before adding material to cart.

2.1.8 Place the order by making payment
☐ After adding material to cart individual customer can place the order (minimum 25% of total payment is compulsory while placing order) as follows.
1. Click on place the order.
2. Enter quantity required. 3. Click on make payment.
4. Choose payment option.
5. Add banking details.
6. Enter UPI or password to make payment and place order

2.1.9 View Order History

• The system should maintain a record of previous orders made by Individual customer.

• Individual customer can view their order history, including details like order date, products purchased, quantities, etc.

2.1.10 View Payment History

- The system should keep a record of the Individual customer's payment history.

- Individual customer can review their previous payments made on the platform, including payment amount, date, and payment method used.

2.1.11 Give Feedback to Vendors and Labour

- Id can provide feedback or ratings to vendors and Labour.

- The system should allow them to submit their comments or ratings for specific products or services received.

2.2   Construction Material Vendor Module

2.2.1 Account Creation Process & Purchase Membership

- BuildMart System compels to create the account before using it. So, BuildMart System should provide the function which makes vendor creates new account.

- When vendor 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 constrained 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 BuildMart System.

➢ User Type
The User Type falls into four categories described as below.

      1.Individual Customer
      2.Construction Material Vendor
      3.Construction Company
      4.Labourr

   ✓ The User Type defines also four types of user; "Individual Customer ",
   ✓ "Construction Material Vendor ", "Construction Company", and "Labourr".
   ✓ In an Account Creation Process, the user can select Construction Material Vendor.
   ✓ No one could select The Administrator, because Administrator is implemented to BuildMart 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 Wholesaler 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 Wholesaler, and the Answer is registered by the Wholesaler.

- Login information should be entered on one screen, and then Construction Material Vendor information and Security Question information should be entered on another screen.

2.2.2 Login Process

- BuildMart System always compels Construction Material 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 " Construction Material Vendor ", user can be placed on "Construction Material Vendor Home Page".

  > ➢ 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 Construction Material Vendor.

- The Construction Material Vendor account should alive for so long as the membership duration decided by Admin.

- Only when the three checks are successfully completed, Construction Material Vendor can be placed on respected page.

- The "Construction Material Vendor Home" provides some items described as below.

> 11. A trigger to logout
> 12. A trigger to update Account
> 13. A trigger to Change Password
> 14. A trigger to Add Product
> 15. A trigger to Delete Product
> 16. A trigger to View New Notification
> 17. A trigger to Update Product Information
> 18. A trigger to Show Payment History
> 19. A trigger to View all orders
> 20. A trigger to update Order Status

2.2.3 Forgot Password Process

- When Construction Material Vendor lost their Password, the recovery method should be provided by BuildMart system.
  The recovery method is described as below.

  ➢ First, Wholesaler enters their UserID for BuildMart System.

  ➢ Next, BuildMart System demands the Answer which has been registered since when the Account was created.

  ➢ Only when the Answer is correct, Wholesaler 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 BuildMart 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 Construction Material Vendor could get the user authentication using the new password.
  - ➢ Then, the Construction Material Vendor had better change the new password manually.

- If the Answer is not correct, otherwise, the correct Answer is demanded for Wholesaler again.
  - ➢ In that case, Of course, Wholesaler couldn't get the new password.

2.2.4 Change Password Process

- When Construction Material Vendor wants to change their Password, the measure should be provided by BuildMart System.

- Therefore, BuildMart System should provide the function which is available after getting the Construction Material 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, Construction Material Vendor could change their Password.

- When the current password is changed into new password, BuildMart System compels Construction Material Vendor authentication again.

2.2.5 Update Account Process

- BuildMart System should provide the function which makes the account updated for Construction Material Vendor.

- The information Construction Material Vendor could update is described below.

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

- The Login information
  The updatable items as described below.

    4. First Name
    5. Last Name

6. E-mail address

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

- The User information
  The updatable items as described below.

  7. User Name
  8. User Phone No
  9. E-mail address
  10. 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.

2.2.6 Add and Delete Materials & Update Rates

• If Construction Material Vendor have some new material available in their shop then they can easily add for displaying it.

  1. Select Material category
  2. Select Material Brand
  3. Add Material Stock
  4. Add Material Rate
  5. Add Production Time (if vendor have production of particular product) 6. Add Photos (optional)

Update Rates

- Suppose some hike in the price of some material as per market condition then Construction Material Vendor can modify the rates.
- For Update Rate Process Following fields are necessary

  1. Select Material category
  2. Select Material Brand

3.   Add Material New Rate

2.2.7 Update Quantity in Stock

- After getting new delivery Construction Material Vendor can change the new quantity of material
- If Construction Material Vendor are producer of material after producing they can Update respective material stock.
- For updating Quantity of materials in stock following fields are necessary.

1.   Select Material category
2.   Select Material Brand
3.   Add New Quantity

1. Select Status

2.2.8 View Order History

□ Construction Material Vendor can see all history of orders.

1. A trigger to select category
2. A trigger to show History of orders

2.2.9 View Payment History

□ Construction Material Vendor can see all history of Payments.

1   A trigger to select category
2   A trigger to show History of Payments

2.2.10 Launch Offers
□ According to Vendors choice they can launch offers for various product for certain time period.

2.3 Labour Module

 Labours are users of the system who offer services to construction companies and individual customers.

2.3.1 Account Creation Process

• The BuildMart site should provide a function for Labour to create a new account.

• When creating a new account, the following information should be required:

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 constrained 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 BuildMart System.

➢ User Type for Labour should be set as "Labourr."

✓ In an Account Creation Process, the user can select Labourr.

- 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.

2.3.2 Login Process

• Labour need to authenticate themselves through the login process to access the system.

• User authentication requires the UserID and Password to be checked in the following ways:

➢ First, the UserID and Password should be correct and match the registered information.

➢ Second, the User Type linked to the UserID should be "Labourr."

➢ Finally, the UserID should be active and not suspended.

• Only when all three checks are successful, the Labourr can access their respective page.

• The "Labourr Home" provides the following options:

1. Logout
2. Update Account
3. Change Password
4. Add Services
5. Delete Services
6. Update Rates

2.3.3 Forgot Password Process

• If a Labourr forgets their password, the system should provide a password recovery method.

• The recovery method includes the following steps:

> ➢ The Labourr enters their UserID for the BuildMart site.

> ➢ The system prompts for the answer to the security question registered during account creation.

> ➢ If the answer is correct, the Labourr receives a new password via email.

> ➢ The new password is automatically generated and must meet the specified criteria.

• After receiving the new password, the Labourr can authenticate themselves using it and then change the password manually.

2.3.4 Change Password Process

• Labour can change their password through the system's password change functionality.

• The process requires the current password and the new password.

> ➢ The new password should meet the specified criteria.
> ➢ Both the current and new passwords are masked for security.

• Only when the current password is correct, the Labourr can change their password.

• After changing the password, the Labourr needs to authenticate themselves again.

2.3.5 Update Account Process

• The system should allow Labour to update their account information.

• The following information can be updated:

1. Login information
2. User information
• All the updatable items should be provided, but updating is optional.

2.3.6 Update Availability Status

• Labour can update his availability status

• Labour can also Set his Available Date.

2.3.7 Update Rates

• Labour can update the rates for their services.
• The process includes specifying the service and the updated rates.

2.4   Construction Company Module

• A construction company is a user of the system who wants to purchase construction materials.

• They can also view market prices of products.

2.4.1 Account Creation Process & Purchase Membership

• The BuildMart site should provide a function for construction companies to create a new account.

• When creating a new account, the following information should be required:

1. Login information
2. Contact Details

• The Login information consists of the following items:

1. UserID
2. Password
3. First Name
4. Last Name
5. Email address
6. User Type

    ➤ All items are compulsory.

    ➤ UserID should be unique and not already registered in a case-insensitive manner.

> ➢ Password should meet certain criteria, including a minimum length, the inclusion of numeric figures, capital and small alphabets, and special characters.
> ➢ User Type for construction companies should be set as "Construction Company."

• The Contact Details consist of the following items:

1. Permanent Address
2. Contact Phone No

> ➢ All items are compulsory.
> ➢ Permanent Address should be filled, with only the state being selected from options.

2.4.2 Login Process

• Construction companies need to authenticate themselves through the login process to access the system.

• User authentication requires the UserID and Password to be checked in the following ways:

> ➢ First, the UserID and Password should be correct and match the registered information.
> ➢ Second, the User Type linked to the UserID should be "Construction Company." ➢ Finally, the UserID should be active and not suspended.

• Only when all three checks are successful, the construction company can access their respective page.

• The "Construction Company Home" provides the following options:

1. Logout
2. Update Account
3. Change Password
4. Search Product
5. Buy Construction Materials
6. Payments
7. Order History
8. Order Tracking
9. Payment History
10. Feedback to Vendors and Labour

2.4.3 Forgot Password Process

- If a construction company forgets their password, the system should provide a password recovery method.

- The recovery method includes the following steps:

  ➢ The construction company enters their UserID for the BuildMart site.
  ➢ The system prompts for the answer to the security question registered during account creation.
  ➢ If the answer is correct, the construction company receives a new password via email. ➢ The new password is automatically generated and must meet the specified criteria.

- After receiving the new password, the construction company can authenticate themselves using it and then change the password manually.

2.4.4 Change Password Process
- Construction companies can change their password through the system's password change functionality.

- The process requires the current password and the new password.

  ➢ The new password should meet the specified criteria.
  ➢ Both the current and new passwords are masked for security.

- Only when the current password is correct, the construction company can change their password.

- After changing the password, the construction company needs to authenticate themselves again.

2.4.5 Update Account Process

- The system should allow construction companies to update their account information.

- The following information can be updated:

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

- All the updateable items should be provided, but updating is optional.

2.4.6 Search Product

- Construction companies can search for construction materials based on certain criteria:

1. Product category
2. Specifications
3. Price range

2.4.7 Add the material to cart and View Cart

- Add the material required to cart as follows.

  1. Select the material
  2. Click on add to cart
  3. View cart.

- Construction companies can compare market prices before adding material to cart.

2.4.8 Place Orders

• Construction companies can select and purchase construction materials from the available options.

• The process includes adding items to the cart and proceeding to the secure payment gateway for transaction completion.

2.4.9 View Order History

• The system should maintain a record of previous orders made by construction companies.

• Construction companies can view their order history, including details like order date, products purchased, quantities, etc.

2.4.10 View Payment History

• The system should keep a record of the construction company's payment history.

• Construction companies can review their previous payments made on the platform, including payment amount, date, and payment method used.

2.4.11 Give Feedback to Vendors and Labour

• Construction companies can provide feedback or ratings to vendors and Labour.

• The system should allow them to submit their comments or ratings for specific products or services received.

2.5   Admin Module
• Administrator should be responsible for following activities**.**

2.5.1 Login Process

- BuildMart System always compels user authentication before using itself except when a new account is successfully created.

- The user authentication demands Username and Password. The Username and the Password should be checked in three ways.

  ➢ First, The Username and the Password should be existed and correct.
    ✓ If The Username 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 Username should be "Admin".
    ✓ When the User Type is "Admin", user can be placed on "Admin Home".

  ➢ Finally, Username should be available.
    ✓ The Administrator can decide whether the Username is available or suspended.
    ✓ 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 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 Product for sale

5. A trigger to Update Product Information
6. A trigger to Delete Product
7. A trigger to Avail Offers
8. A trigger to Give Memberships

2.5.2 Forgot Password Process

- When Admin lost their Password, the recovery method should be provided by BuildMart system.
  The recovery method is described as below.

  ➢ First, Admin enters their Username for BuildMart 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 BuildMart.
    ✓ 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.

2.5.3 Change Password Process

- When Admin wants to change his Password, the measure should be provided by BuildMart system.

- Therefore, BuildMart 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, BuildMart System compels user authentication again.

2.5.4 Update Account Process

- BuildMart System should provide the function which makes the account updated for Admin.

- The information Admin could update is described below.

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

- The Login information
  The updatable items as described below.

    4. First Name
    5. Last Name
    6. E-mail address

  > ➢ All items are compulsory demanded, but updating is optional.

- The User information
  The updatable items as described below.

    7. User Name
    8. User Phone No
    9. E-mail address
    10. Permanent address

  > ➢ All items are compulsory demanded, but updating is optional.

- The Security Question information The updatable items as described below.

11. Selected Question
12. Answer

➢ All items are compulsory demanded, but updating is optional.
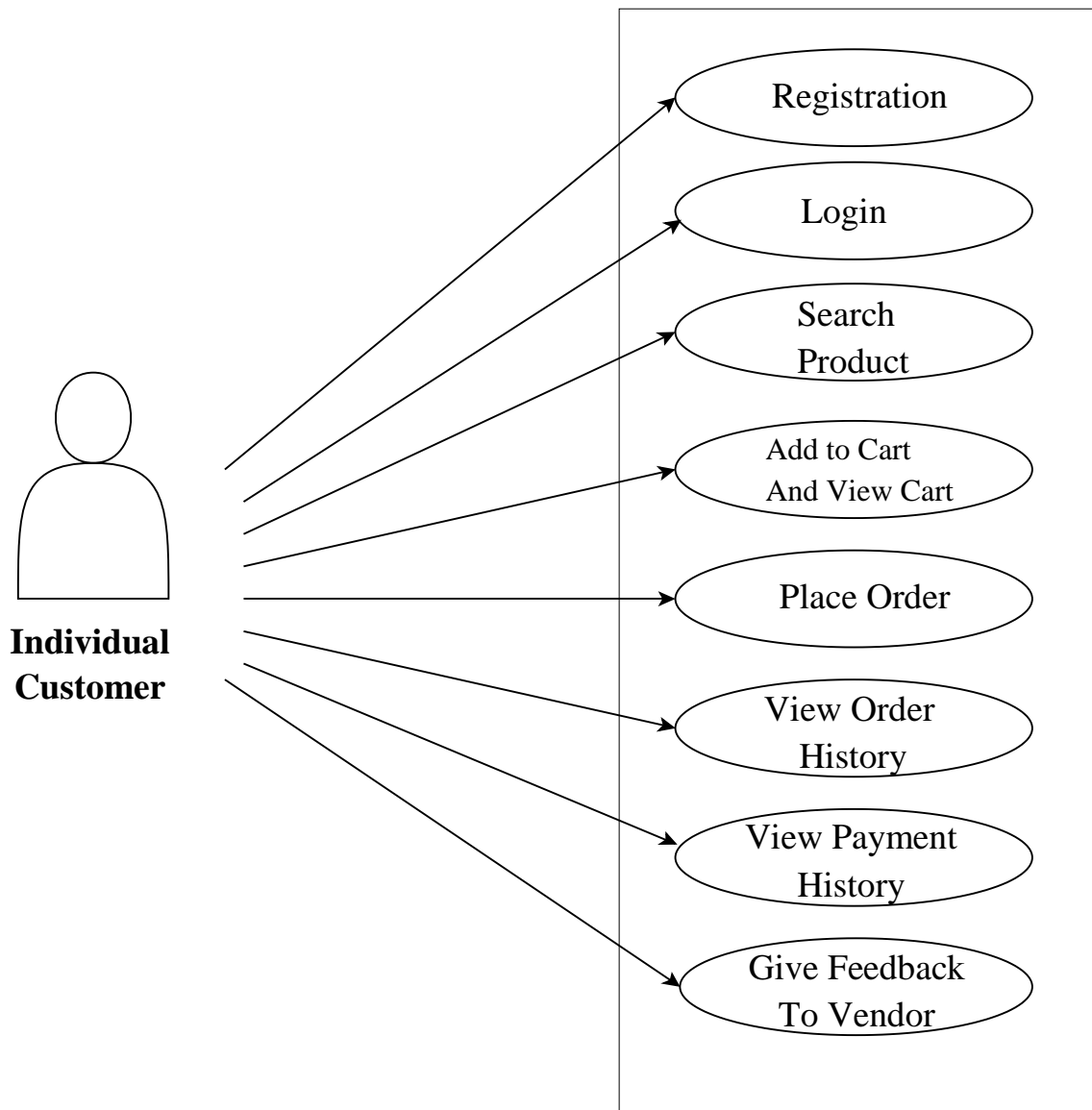
2.5.5 Record Generation

• Admin should able to see all the records from any users.
• Daily report of enrolment to admin.
• Monthly report of enrolment as per the customers to admin.

2.5.6 Accounts Management

• Admin should able to manage all the accounts with following activities,
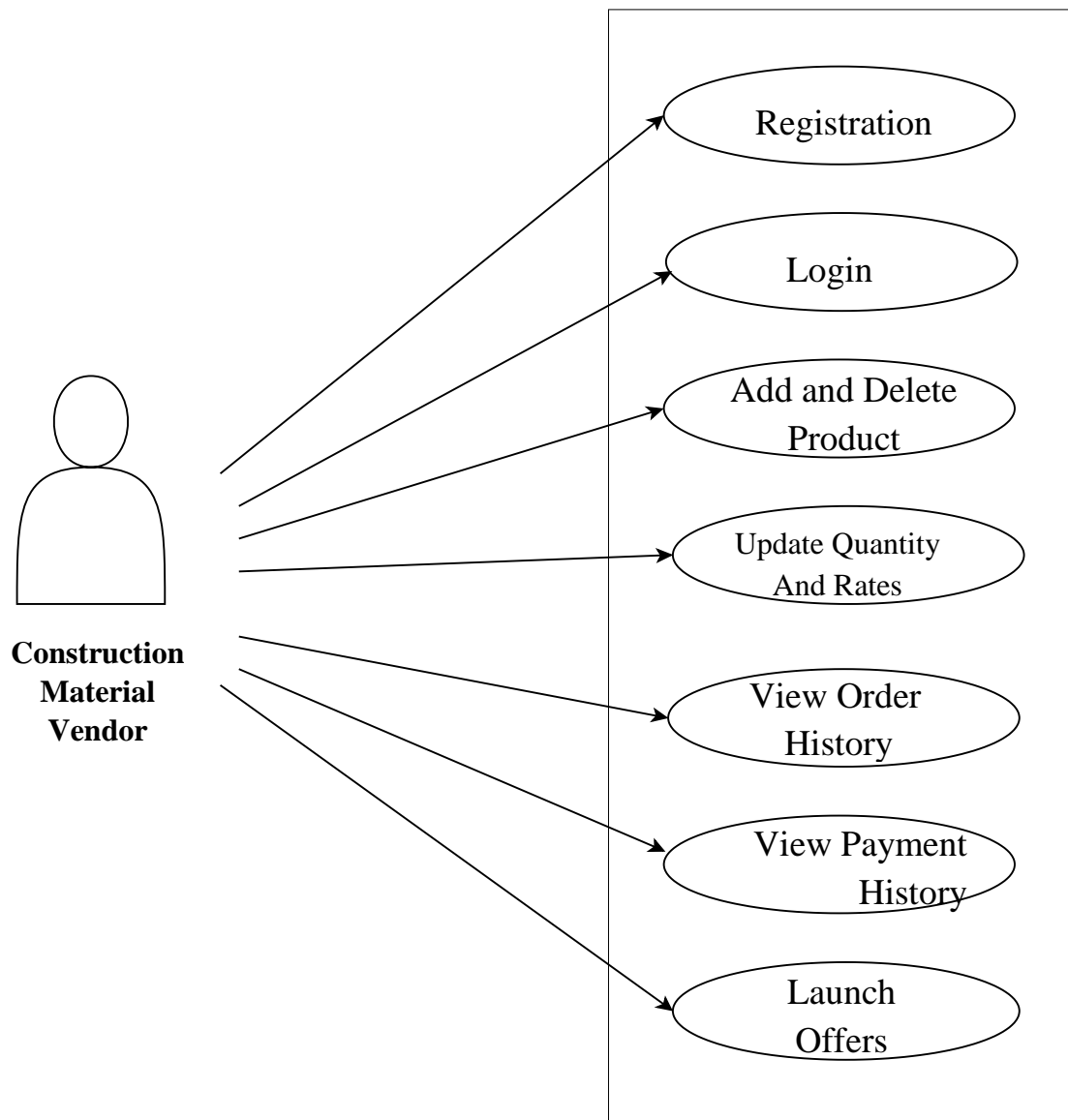1. Enable accounts
2. Disable accounts

2.6 Use Case Diagram
Individual Customer:

Fig. Use case diagram for Individual Customer

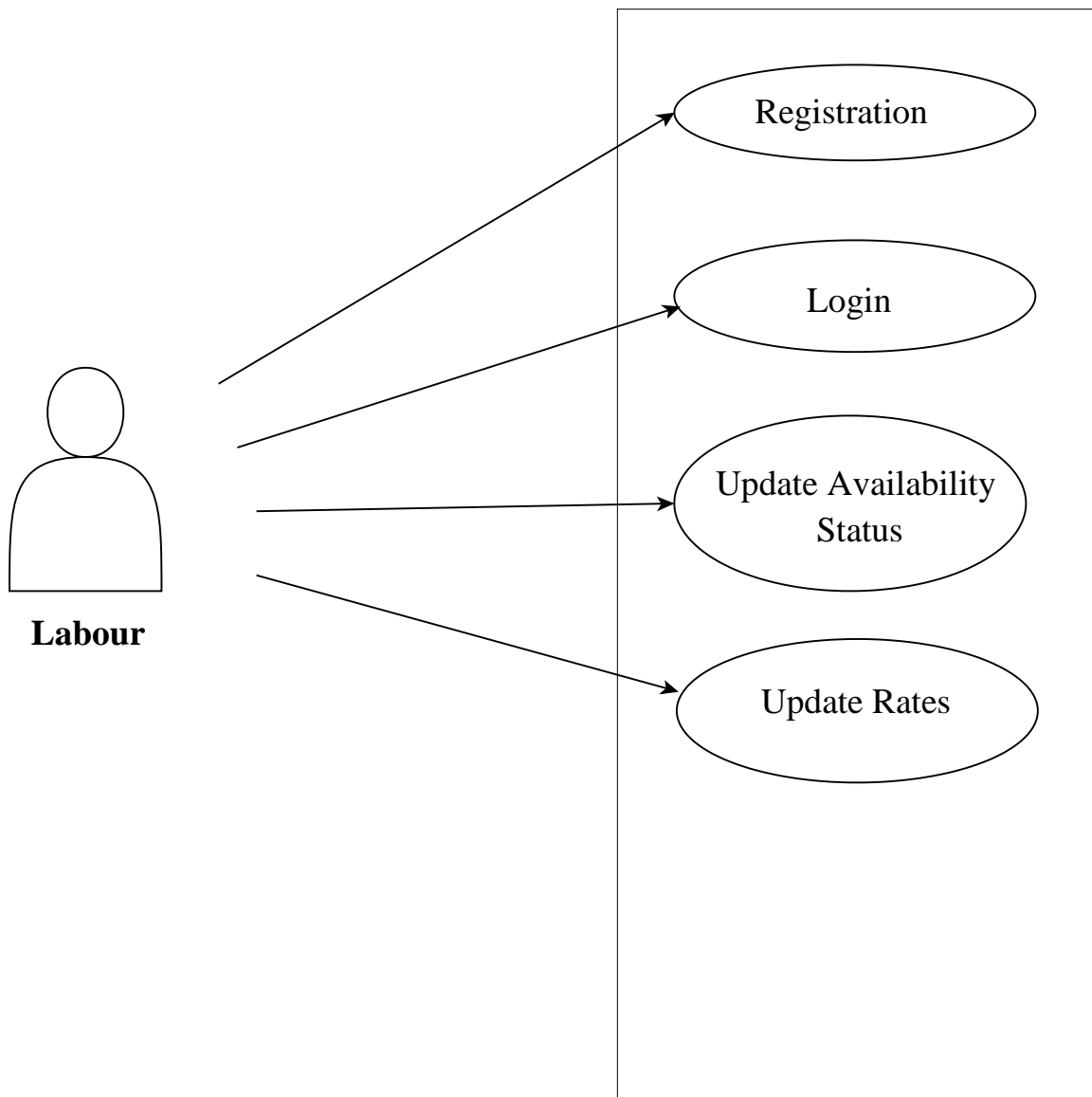**Individual Customer:**

       1.   In Individual Customer use case diagram Individual Customer is the Actor.

       2.   Individual Customer can handle following use cases:

          a. Registration

          b. Login

          c. Search Product

          d. Add to Cart and View Cart

          e. Place Order

          f. View Order History

          g. View Payment History

          h. Give Feedback to Vendor

Construction Material Vendor:

Fig. Use case diagram for Construction Material Vendor

Construction Material Vendor:

1.In Construction material vendor use case diagram construction material vendor is the Actor.

2. Construction material vendor can handle following use cases:
   a. Registration
   b. Login
   c. Add and delete product
   d. Update quantity and rates
   e. Launch offers
   f. View Order History
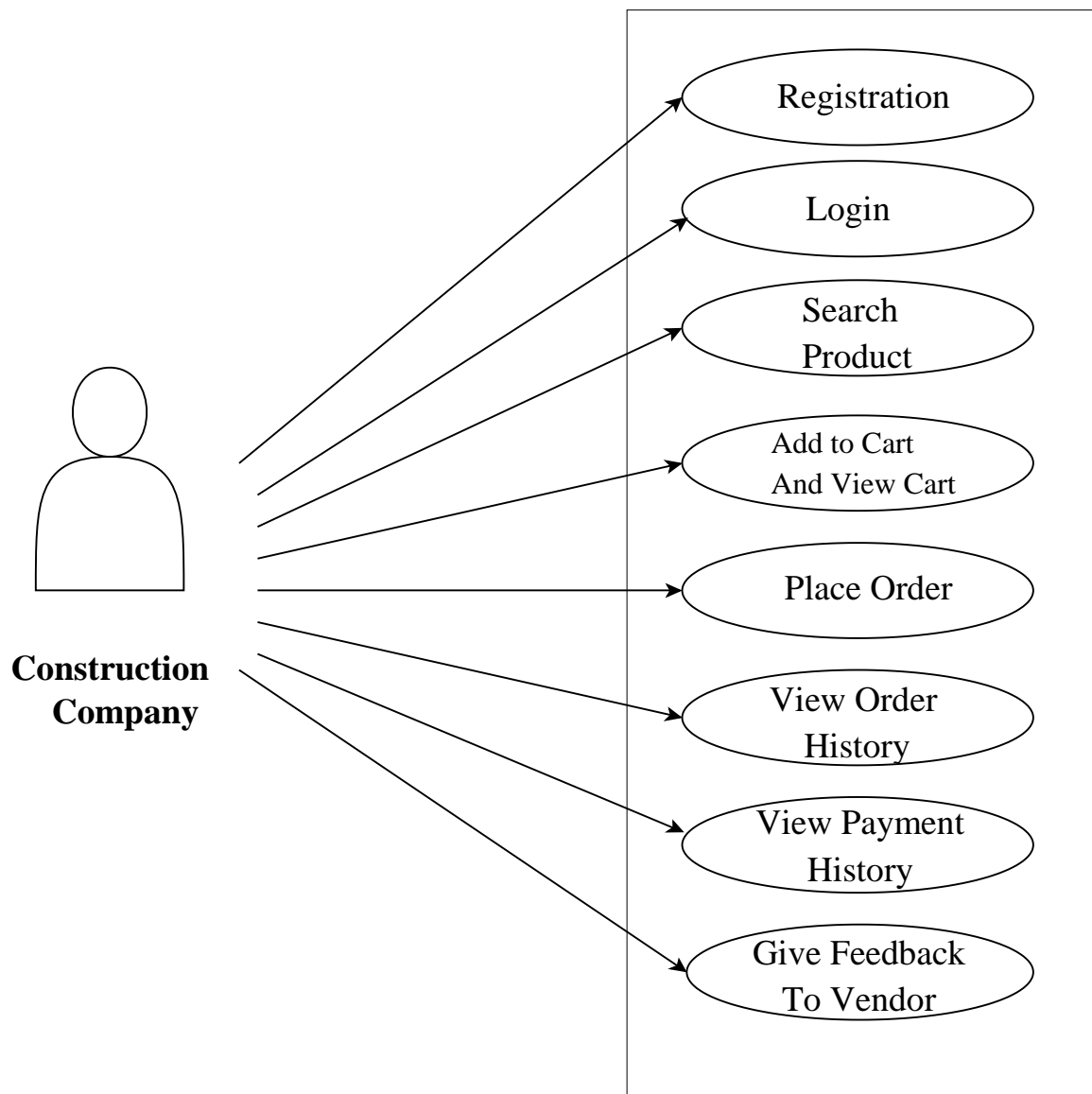   g. View Payment History

Labor:

Fig. Use case diagram for Labour

Labour :

        1.In Labour use case diagram Labour is the Actor.

        2.Labour can handle following use cases:

            a. Registration

            b. Login

            c. Add and delete product

            d. Update availability status
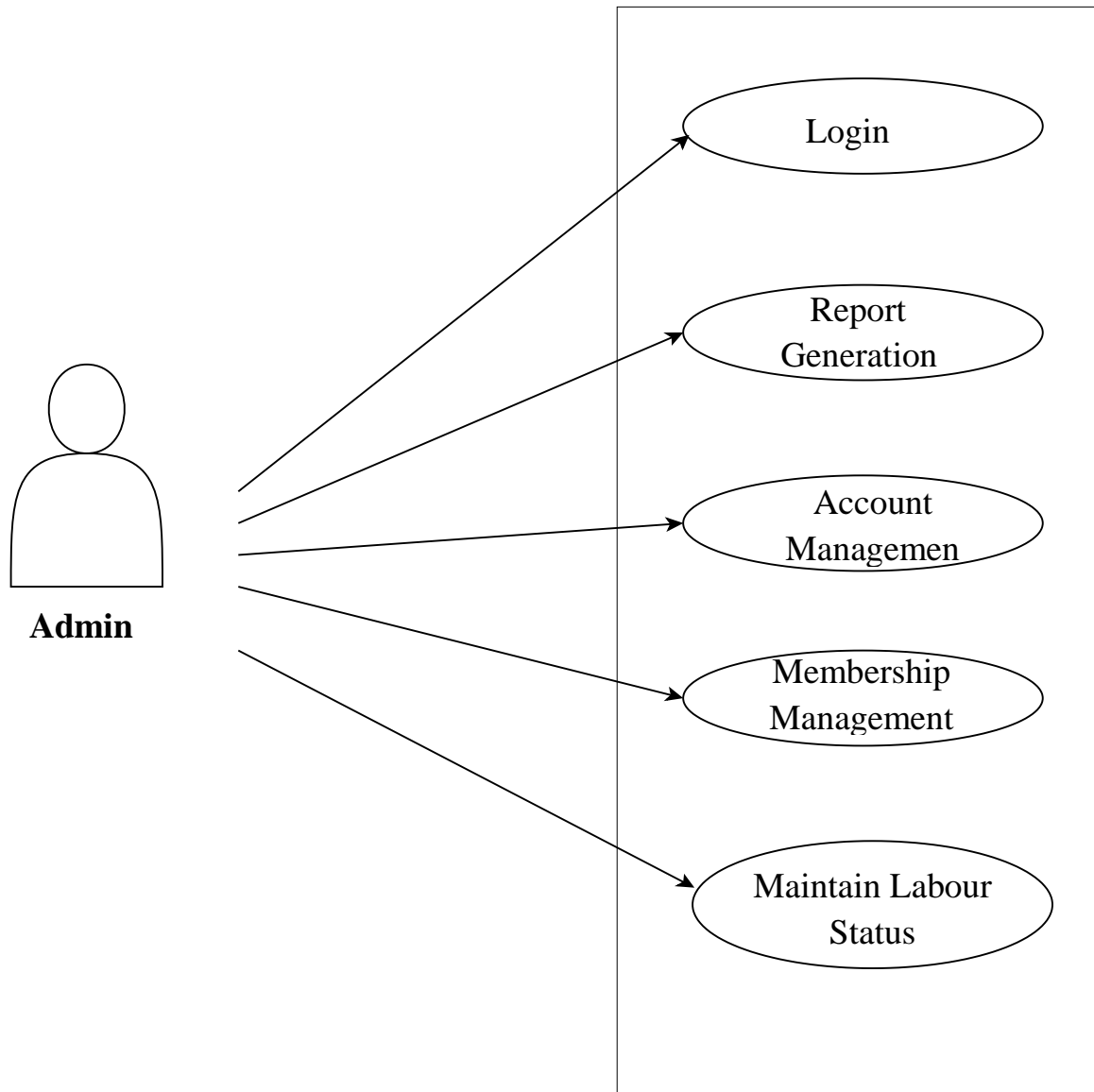
            e. Update rates

Construction Company:

Fig. Use case diagram for Construction Material Vendor

Construction Company:

      1.In Construction company use case diagram construction company is the Actor.

      2. Construction company can handle following use cases:

        a. Registration

        b. Login

        c. Search Product

        d. Add to Cart and View Cart

        e. Place Order

        f. View Order History

        g. View Payment History

        h. Give Feedback To Vendor

Admin:

Fig. Use case diagram for admin

1. In Admin use case diagram Admin is the Actor.
2. Admin can handle following use cases:
   a. Login
   b. Report Generation
   c. Account management
   d. Membership management
   e. Maintain labour status