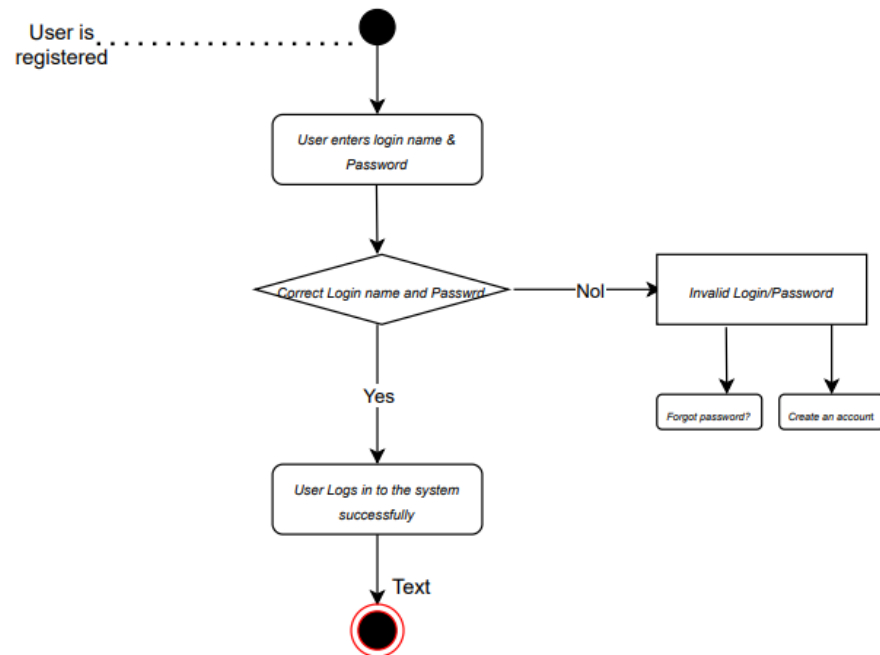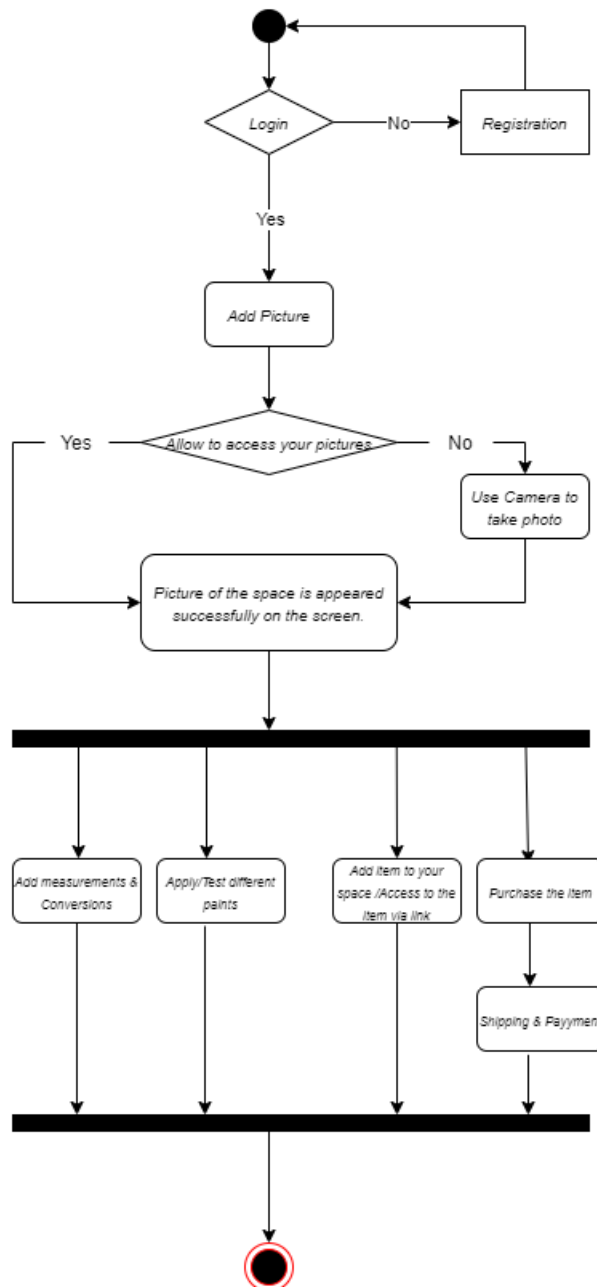# *Activity Diagram*

This Activity diagram represents login page. Registered user can use their username/password to login to the system. If the password is not correct, application will encourage you to use the "Forgot password?" link or "Create an account"

User is
registered .... ●

User enters login name &
Password

Correct Login name and Passwrd ——No|—— Invalid Login/Password

Yes

Forgot password?   Create an account

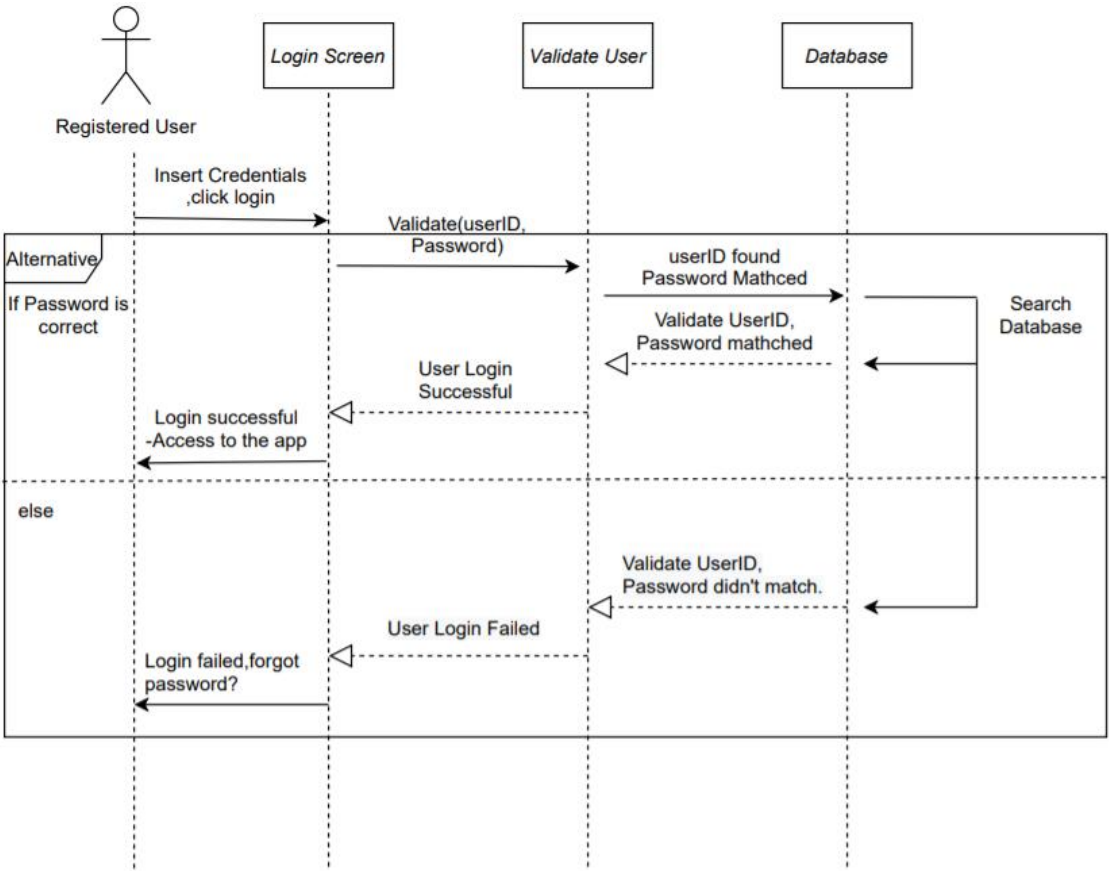User Logs in to the system
successfully

Text

Activity Diagram - Main Flow

This diagram refers to the primary functionality of the "LevelUp Home Decor" Application.

Sequence Diagram - Login Page

Registered User

Login Screen

Validate User

Database

Insert Credentials
,click login

Validate(userID,
Password)

userID found
Password Mathced

Validate UserID,
Password mathced

Search
Database

Alternative

If Password is
correct

User Login
Successful

Login successful
-Access to the app

else

Validate UserID,
Password didn't match.

User Login Failed

Login failed,forgot
password?

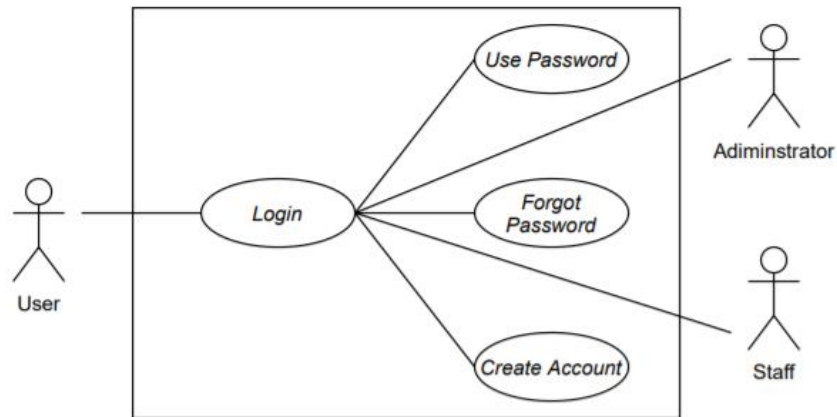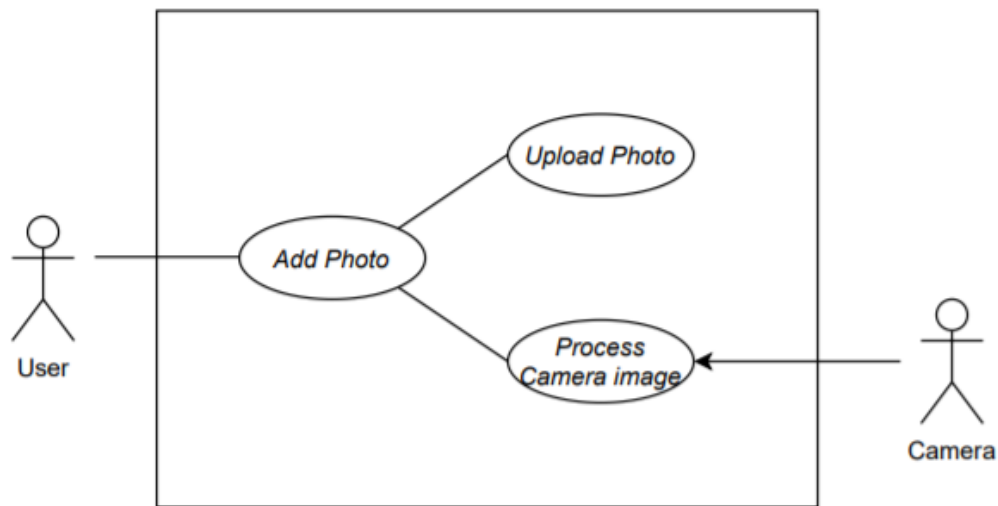# Sequence Diagram - Main Flow
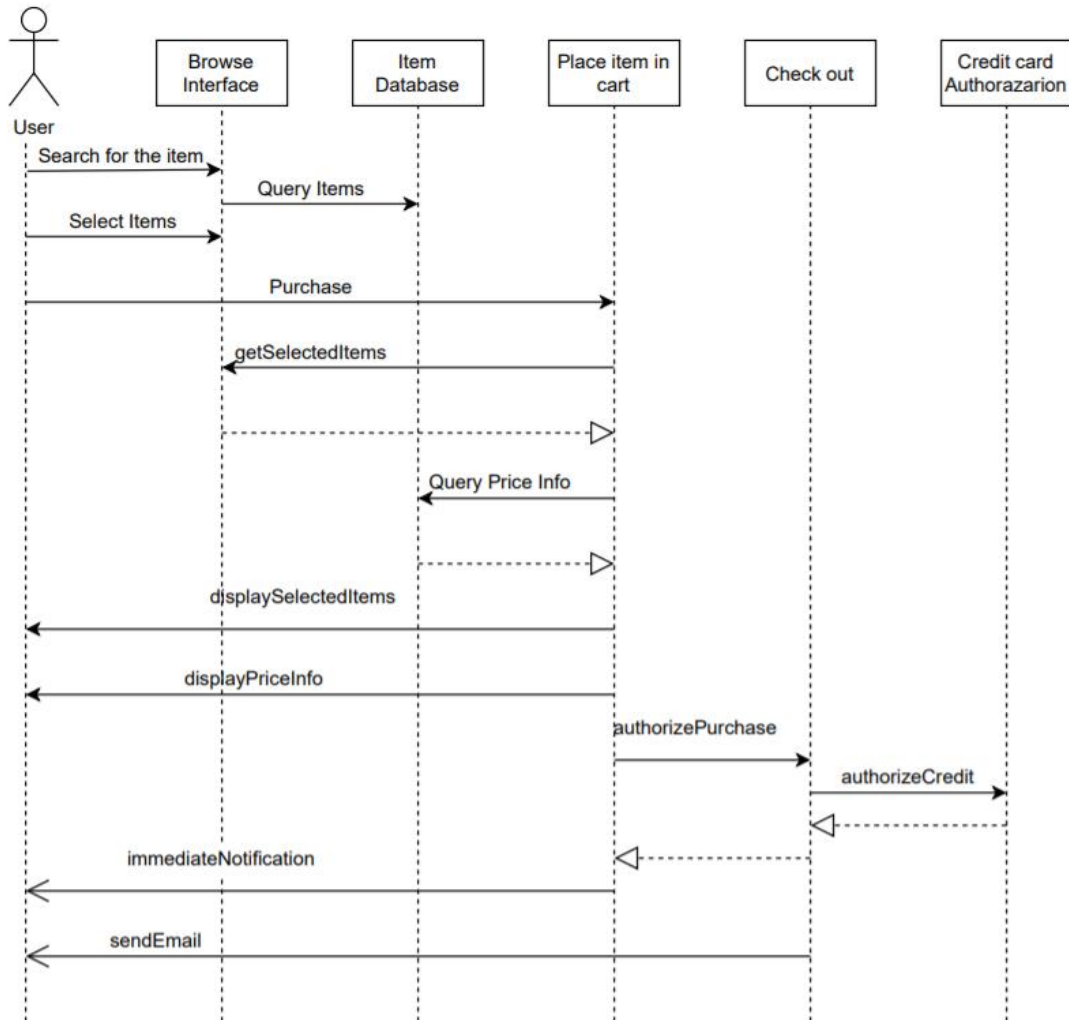
Use Case Diagrams

1. User can login to the system with user their credentials. If the password does not work, the user can follow the provided link to retrieve/reset their credentials. If they do not have an account, they can also create one. Administrators have access to each user's credentials, and staff can assist with trouble shooting.

2. To be able to edit the picture by moving items around, change the color of objects, or the walls in the image, users need to upload a photo from their phone. If the user chooses not to give the application access to their photos, they can simply use the camera to take a picture of the designated space.
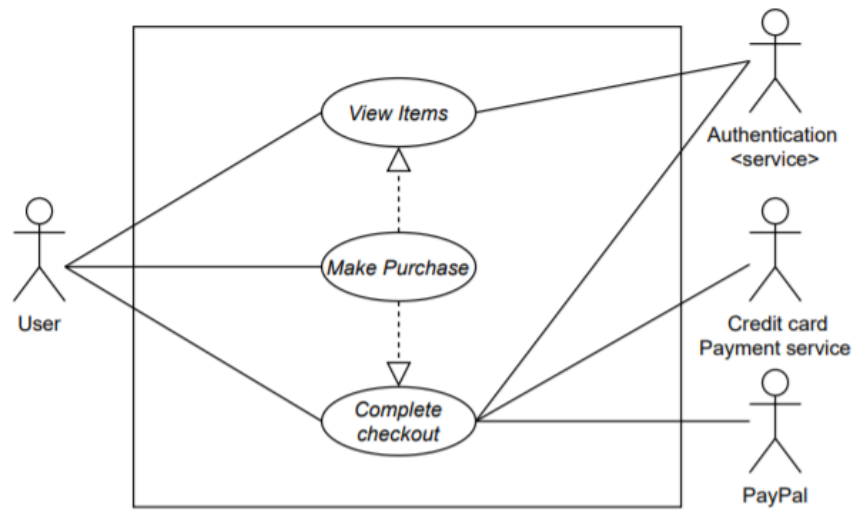
Purchase options are available through the app. At checkout, there are different options for payment, such as, credit card, or pay pal.

Class Diagram for Shipping Page

User
-userId : string
-password : string
-loginStatus :string

+verifyLogin() : bool

Customer
-customerName : string
-address : string
-email : string
-phoneNum : Int
-creditcardInfo : string
shippingInfo: string

+register()
+login()

Administrator
-adminName : string
-email : string

+updateCatalog() : bool

ShoppingCart
-cartId : Int
-productID : int
-quantity : int
-dateAdded : int

+addCartItem()
+deleteCartItem()
+updateQuantity
+viewCartDetails()
+checkout()

ShippingInfo
-shippingId : Int
-shippingMethod : string
-shippingCost : int

+updateShippingInfo()

Orders
-orderId : Int
-dateCreated : string
-dateShipped : string
-CustomerName : string
-customerId : string
-status : string
-shippingId : string

+placeOrder()

orderDetail
-orderId : int
-productId : int
-productName : string
-quantity : float
-unitCost : float

+calcPrice()

Product
-productId : int
-name : string
-description : string
-price : int
-imageFileName : string

+displayProduct()
+getProductDetails()

Class Diagram for Payment Page

Account

-customerName : string
-billingAddress : string
-email : string
-phoneNum : Int
-creditcardInfo : string
shippingId: string

+isValid() : bool

Payment

-paidDate : Date
-cardInfo : string
-cardExpiration

+processPayment()

Product

-productId : int
-name : string
-description : string
-price : int
-imageFileName : string

+displayProduct()
+getProductDetails()

Orders

-orderId : Int
-dateCreated : string
-dateShipped : string
-CustomerName : string
-customerId : string
-status : string
-shippingId : string

+placeOrder()