

## Product Backlog

- Login Page
  - Display Login form
  - Login - allow a registered user to log in
  - Registration - navigate to Register Page
  - Browse all product - navigate to Home Page
- Register Page
  - Display Registration Form
  - Register - allow a person to register for an account
  - Login - navigate to Login Page
  - Browse all product - navigate to Home Page
- Home page
  - Browse all product - allow all users to see all available products listed on a page, including a picture and a name
  - Filter products by category - users can filter products by selecting a specific category they want on the sidebar (Apparel, Home Goods, Pet Supplies, Electronics)
  - Search for products - users can search for a specific item from the search bar
  - View product details - users can click into a product and view its details
  - If logged in
    - Dropdown (shopping cart, wishlist, profile, logout) - users can click on the dropdown menu and go to either their shopping cart, wishlist, profile page, or logout.
  - If not logged in
    - Login - navigate to Login Page
    - Register - navigate to Register Page
- Product Page
  - Display product image, price, description, reviews (display the content of the review, the user that post the review)
  - Left and Right button: Display the previous/next image of the product
  - If logged in
    - Dropdown (shopping cart, wishlist, profile, logout) - users can click on the dropdown menu and go to either their shopping cart, wishlist, profile page, or logout.
    - Add to wishlist: Add the product to wishlist
    - Add to cart: Add the product to shopping cart
  - If not logged in
    - Login - navigate to Login Page
    - Register - navigate to Register Page

- Profile Page
  - Shows list of selling products - displays the image and name of the products the user is currently selling, user can click on the product which takes them to product details page
  - Button to go back to home page - navigate to Home Page
  - Show the name of the user and their profile picture
  - If logged in
    - Dropdown (shopping cart, wishlist, profile, logout) - users can click on the dropdown menu and go to either their shopping cart, wishlist, profile page, or logout.
  - If not logged in
    - Login - navigate to Login Page
    - Register - navigate to Register Page
  - Viewing profile for currently logged in user
    - Edit profile picture - user can change their profile picture
    - Add a product - user can add a product to sell
- Wishlist Page:
  - Display each product in the user's wishlist, and list out products that are not available.
  - Select box: each available product has a select box at the front.
  - Select all: select all available products
  - Add to shopping cart: add the selected products in the shopping cart
  - Remove: remove the selected products from the wish list
  - Clear: remove all unavailable products.
  - Dropdown (shopping cart, wishlist, profile, logout) - users can click on the dropdown menu and go to either their shopping cart, wishlist, profile page, or logout.
- Shopping Cart Page
  - Only available for logged in users
  - List all items the user added to shopping cart - including item picture, item name, item type, price, and quantity
  - Display total price in shopping cart
  - Select box: each available product has a select box at the front.
  - Select all: select all available products
  - Move to Wish List: Remove the item from shopping cart and add it to wishlist
  - Remove: remove the selected products from the cart
  - Clear: remove all unavailable products from the cart
  - Checkout: takes user to Checkout page

- Dropdown (shopping cart, wishlist, profile, logout) - users can click on the dropdown menu and go to either their shopping cart, wishlist, profile page, or logout.
- Transaction
  - List out products undergoing the transaction
  - Display contact and address information Form
  - Display payment info Form
  - Pay: proceed to payment
- Add/Edit Product Page
  - Produce Name: user can edit product name
  - Upload Picture: user should upload exactly 3 pictures of the product
  - Product Description: user can add/edit product description
  - Category: user must choose a product category
  - Add Types: user must include the type, price, and in-stock quantity for the product. User can add multiple types for a single products
  - Delete Types: user can delete a type of the product by clicking the x button
  - Dropdown (shopping cart, wishlist, profile, logout) - users can click on the dropdown menu and go to either their shopping cart, wishlist, profile page, or logout.
- Order Page (Buyer):
  - Ongoing Order Page:
    - Display all ongoing order: order number, products in the order
    - Cancel: cancel the order
    - Received: received the products and complete the order, remove the order from ongoing order list
  - Previous Order Page:
    - Display all previous orders: order number, products in the order
    - Contact seller: send email to the seller registered email
  - Dropdown (shopping cart, wishlist, profile, logout) - users can click on the dropdown menu and go to either their shopping cart, wishlist, profile page, or logout.
- Order Page (Seller)
  - Ongoing Order Button: shows all ongoing order: order number and products in order (includes product picture, name, type, price)
  - For each item:
    - Item sent button: seller can click on this button to notify the buyer the item is shipped
    - Contact Buyer button: seller can send email to the buyer
  - Previous Order Button:

Product Owner: Aiyana Huang (xinyih)

- Display all previous orders: order number, products in the order
- Dropdown (shopping cart, wishlist, profile, logout) - users can click on the dropdown menu and go to either their shopping cart, wishlist, profile page, or logout.

### **Sprint 1 Backlog**

- Create all models
  - Profile, Order (Aiyana)
  - Product, Review, Shopping Cart, Wishlist (Katrina)
- Create all forms
  - Login Form, Register Form, Profile Form (from homework)
  - Product Form, Review Form (Model Form)
  - Contact Form, Payment Info Form (later when we know more about Paypal)
- Create all HTML/CSS files (Aiyana + Katrina)

### **Data Model**

- Profile - saves profile information of the user, includes username, password, email (from User model), profile picture, list of products the user is selling, and reference to the user itself.
- Product - saves product information, includes pictures, name, description, seller, price, in stock quantity, availability, category
- Review - product, content, user that post the review
- Order - saves product order information, includes reference to buyer, reference to seller, reference to items, total quantity, total price, ongoing
- Shopping Cart - saves shopping cart information, allow users to buy from shopping cart directly. Includes reference to user, reference to list of items
- Wishlist - saves user's wishlist information, cannot purchase from wishlist directly. Includes reference to user, reference to list of items

Product Owner: Aiyana Huang (xinyih)

## Data Model Code

```
from django.db import models
from django.contrib.auth.models import User

# Create your models here.

# The model for each individual product
class Product(models.Model):
    # Each product requires three pictures
    product_picture1 = models.ImageField(blank=True)
    product_picture2 = models.ImageField(blank=True)
    product_picture3 = models.ImageField(blank=True)
    # Product info: name, description, price, in_stock_quantity, availability,
    # category, seller
    product_name = models.CharField(max_length=200)
    product_description = models.CharField(max_length=1000)
    product_price = models.IntegerField()
    product_in_stock_quantity = models.IntegerField()
    product_availability = models.BooleanField(default=True)
    product_category = models.CharField(max_length=50)
    product_seller = models.ForeignKey(User, on_delete=models.PROTECT)

# The model for each review for products, use filter to get reviews for each
# product.
class Review(models.Model):
    review_product = models.OneToOneField(Product, on_delete=models.PROTECT)
    review_content = models.CharField(max_length=200)
    review_reviewer = models.ForeignKey(User, on_delete=models.PROTECT)

# The model for each user's wishlist
class Wishlist(models.Model):
    wishlist_products = models.ManyToManyField(Product, related_name="contains")
    wishlist_user = models.OneToOneField(User, on_delete=models.PROTECT)

# The model for each user's shopping cart
class ShoppingCart(models.Model):
    shopping_cart_product = models.ManyToManyField(Product,
```

Product Owner: Aiyana Huang (xinyih)

```

                                                                 related_name="contains")

wishlist_user = models.OneToOneField(User, on_delete=models.PROTECT)

# The model for user profile
class Profile(models.Model):
    profile_picture = models.FileField(blank=True)
    content_type = models.CharField(max_length=50)
    profile_user = models.ForeignKey(User, on_delete=models.PROTECT,
related_name="profile_user")

    # to get list of selling product: profile.profile_user.product_set.objects.all()

    def __str__(self):
        return 'id=' + str(self.id) + ",pic=" + self.profile_picture.name

# The model for Order
class Order(models.Model):
    buyer = models.ForeignKey(User, on_delete=models.PROTECT)
    seller = models.ForeignKey(User, on_delete=models.PROTECT)
    # one order can contain many products, and a product can be in multiple orders
    item = models.ManyToManyField(Product, related_name="contains")
    quantity = models.IntegerField()
    total_price = models.IntegerField()
```

## Buy / Sell

[Browse all Products](#)[Register](#)

Login

UN:

PS:

## Buy / Sell

[Browse all Products](#)[Login](#)

Register

First name:

last name:

email:

UN:

PS:

confirm ps:

if logged in

Buy/sell

category:  
— (link)  
—  
—  
—  
—

🔍 search

{ name  
(link)

name

name

name

name

name

↓  
cart  
wish list  
profile  
logout

If not logged in :

Buy/sell

category:  
—  
—  
—  
—  
—  
—

🔍 search

loginregister

{ name  
(link)

name

name

name

name

name



product Page: if logged in

buy/sell

< return to home

product Name

image

\$ --- (price)

description

Reviews

one per user

Add to wish list

Add to cart

↓

cart

wish list

profile

logout

Product pg if not logged in

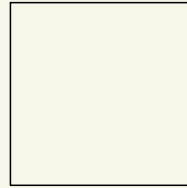
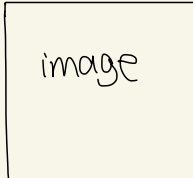
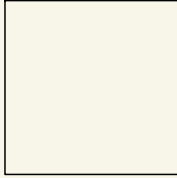
buy/sell

◀ return to home

login

register

Product Name



\$ --- (price)

description

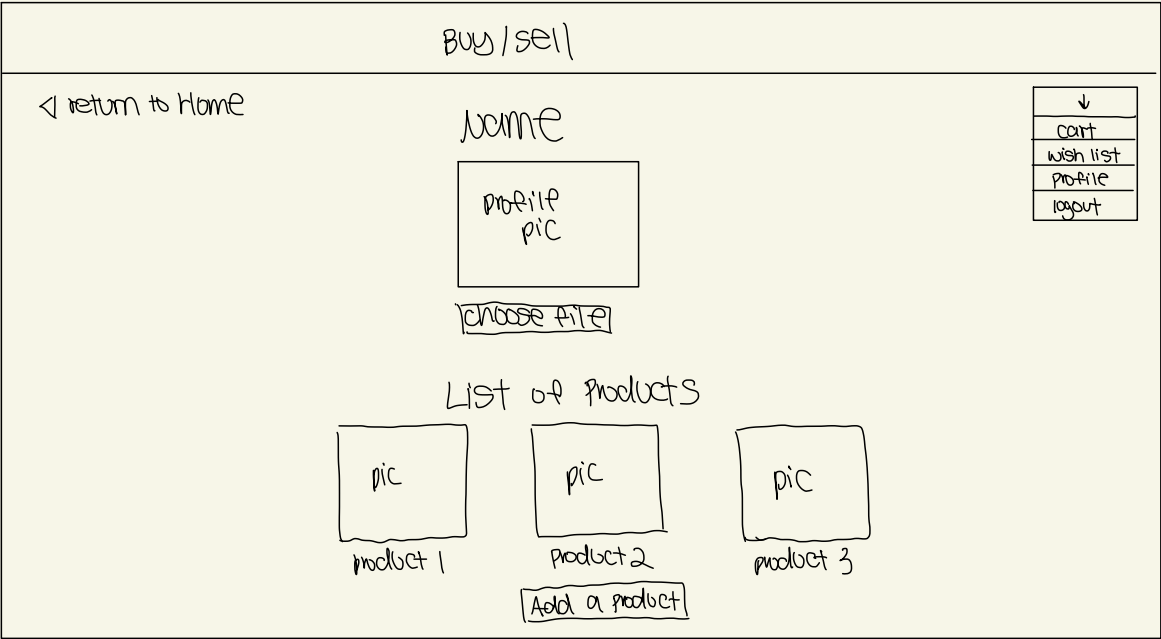
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Reviews

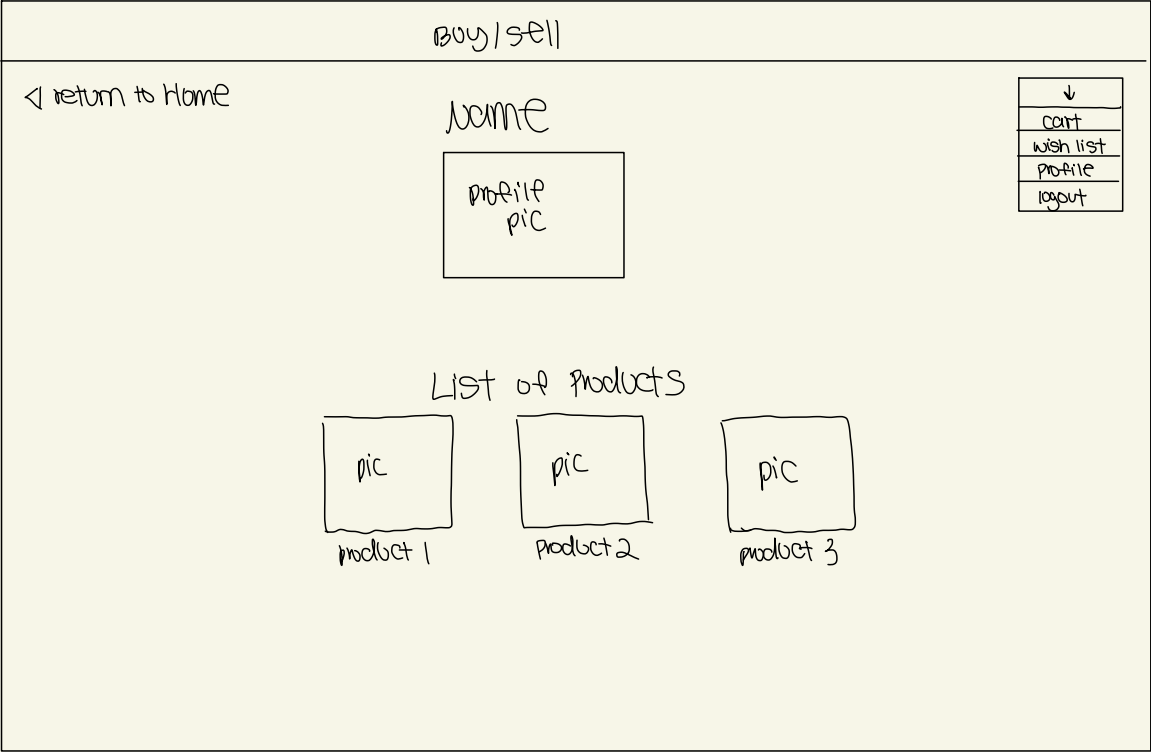
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

one per user

Profile for logged in user



Viewing profile of other users:



## Wish List

☐ Select All

☐

item picture

Item Name

\$item price

☐

item picture

Item Name

\$item price

☐

item picture

Item Name

\$item price

Items not available

item picture

Item Name

\$item price

## Shopping Cart

☐ Select All

☐

item picture

Item Name

\$item price

☐

item picture

Item Name

\$item price

☐

item picture

Item Name

\$item price

Total price: \$\$\$

Items not available

item picture

Item Name

\$item price

## Transaction

1. Items

item picture

Item Name

\$item price

item picture

Item Name

\$item price

item picture

Item Name

\$item price

2. Contact and address

Name:

Address:

3. Payment Info

## Add/Edit Product

Product Name:

Upload at least 1 Picture. At most 4 or 5.

Product Description:

Category:

Price:

In stock quantity:

Orders (Buyer)

on going order	Order number : 000001
	<div>Cancel</div> <div>Received</div>
Proving order	
	<div><div>item picture</div>ItemName\$ item price</div>
	Order Number = 000-...02
	<div>Contact Seller</div>
	<div><div>item picture</div>ItemName\$ item price</div>

Orders (Seller)

on going order	Order number : 000004
	<div>Item Text</div> <div>Contact Buyer</div>
Proving order	
	<div><div>item picture</div>ItemName\$ item price</div>
	Order Number : 000003
	<div><div>item picture</div>ItemName\$ item price</div>