

#1 Functions

1) Common Page

● Registration

Registration for the Kingo Market is divided into Buyer and Seller. Market users are required to fill out the form. If the user has not entered all the inputs, entered a different value in the password confirmation box, or entered an already existing ID, the registration will be failed.

-Buyer sign up:

Buyer Sign up!

ID

Password

Confirm password

Address

SIGN UP!

-Seller sign up:

Seller Sign up!

ID

Password

Confirm password

Phone number

SIGN UP!

● Login

Users can login with ID and password.

Login

ID

Password

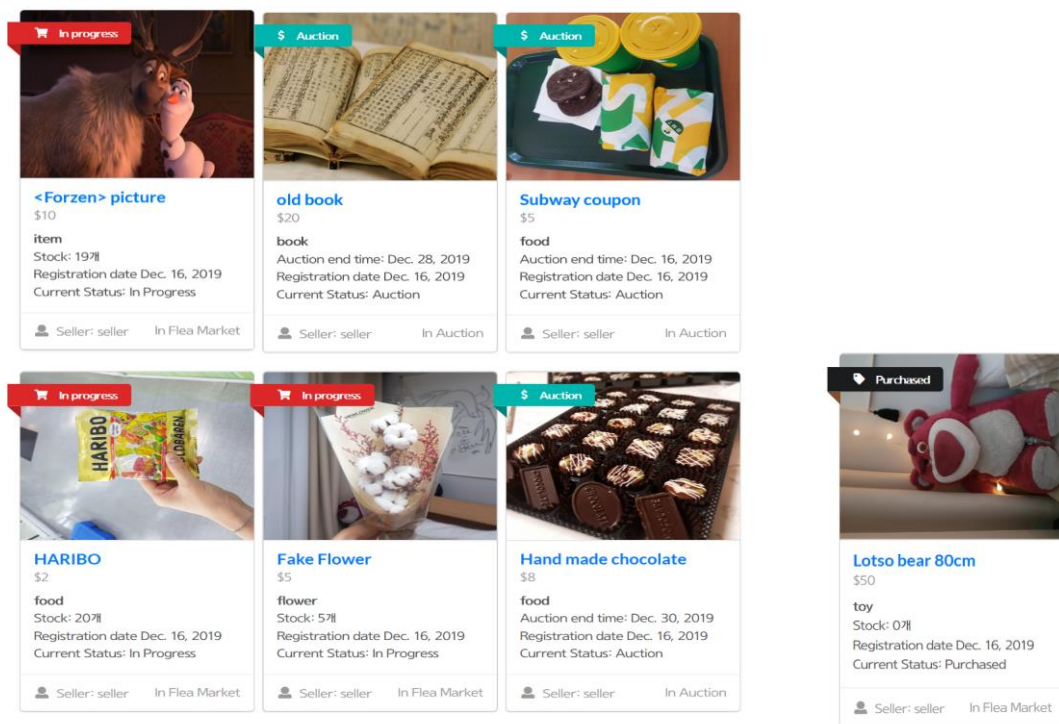
SIGN IN!

After login (if everything was successful):

Successfully Login

- **Product list**

All Products registered in this Web page is displayed on the main page. Each card is linked to the product detail page and marked by tag to be classified into 'auction', 'purchased', 'in progress'.




The card tag is changed to 'purchased' if the number of product stock is 0 or the auction is ended. ▲

- **Product detail**

Users can access product detail page by clicking the product card in the main page. This page provides detail information of the product such as the number of stocks, registered date, seller name, etc.

-Flea Market:

There is 'Buy' button to buy the product and 'add to wish' button to add the product in the wish list.



IKEA Sofa


Price: \$100
Category: Furniture

Stock remaining	0
Registered date	Dec. 10, 2019
Trading place	Seoul
Seller	Dongooree
Seller's phone number	1027104467

BuyAdd to wish

-Auction:

There are Input field to enter a bid price, 'bid' button is for submitting the price and 'add to wish' button is to add the product in user's own wish list. If the end date of the auction has passed or if the buyer offers a price below the current price, the auction does not proceed.



Subway coupon

Current Price: \$5
Category: food

Registered date	Dec. 16, 2019
Trading place	Busan
Seller	seller
Seller's phone number	1012345678
Auction End time	Dec. 16, 2019

BID!Add to wish

2) Administrator

We set administrator's account separately. If manager sign in by administrator's account, 'Administration page' appears. 'Administration page' is linked to site administration system provided by Django. Using this system, manager can add, delete, and modify member and products.

Hi, admin!! [Logout](#) [Administration page](#)

Site administration

ACCOUNTS		
Buyers	+ Add	Change
Sellers	+ Add	Change
AUTHENTICATION AND AUTHORIZATION		
Groups	+ Add	Change
Users	+ Add	Change
SHOP		
Bids	+ Add	Change
Products	+ Add	Change
Reviews	+ Add	Change
Shoppinglists	+ Add	Change
Wishes	+ Add	Change

● Member List

-Modification of member information

Manager can check the member list and modify member's information in the 'Users' table.

Select user to change

Q

Search

Action:

Go

0 of 3 selected

<input type="checkbox"/>	USERNAME	EMAIL ADDRESS	FIRST NAME	LAST NAME	STAFF STATUS
<input type="checkbox"/>	admin	tmddos1998@naver.com			<div></div>
<input type="checkbox"/>	buyer				<div></div>
<input type="checkbox"/>	seller				<div></div>

3 users

-Member deletion

'Change' button next to the buyer and seller table is linked to the page that can perform a member deletion.

Select buyer to change

Action: <input type="text"/>	Go 1 of 1 selected
<input checked="" type="checkbox"/> BUYER	
<input checked="" type="checkbox"/> buyer	
1 buyer	

3) Buyer

● Mypage

'Mypage' show the user information. 'Mypage' of buyer includes user ID, address, shopping history (list of products the buyer bought through flea market), and auction history (list of products the buyer bought through auction)

My page

User ID	buyer
User type	Buyer
Address	Ansan
Shopping history	IKEA Sofa 100/ nike cap 6/
Auction history	

● Product buy

-Flea market

When seller clicks buy button, Kingo Market disallow them to buy.

Only 'BUYERS' are allowed to buy

When buyer clicks buy button, Kingo Market allow them to buy and add bought product in the buyer's shopping list.

Successfully purchased

-Auction

User inputs a price to bid in the bid price field and click 'bid' button. If the bid price that the user entered is lower than the current price or the auction due date passes, bid is rejected.

Bid failed. Please enter the price higher than the current price.

Bid failed. Auction is over!

If the bid price is larger then the current price, bid is registered. Then the current price is updated.

Bid successfully registered

old book

Current Price: \$40

Category: book



old book

Current Price: \$50

Category: book

History of user's bid status can be checked in user's 'mypage'.

Auction history old book at 30 in Dec. 16, 2019, Seller is "seller"/ old book at 40 in Dec. 16, 2019, Seller is "seller"/ old book at 50 in Dec. 16, 2019, Seller is "seller"/

● Product search

All users can search all products registered in Kingo Market. Users can retrieve products by typing 'product name' or 'seller name' in the search box. It is also possible to search products according to the type of market (flea market or auction), status (auction, purchased, in progress), and the amount of price.

The result product of searching is shown next to the search boxes. Alignment method can be controlled as user chooses.

Search

Enter the product or the seller

Search

Market

Status

Price

Auction

Flea Market

Align

choose an alignment sequence

Search

Enter the product or the seller

Search

Market

Status

Price

Auction

Purchased

In Progress

Align

choose an alignment sequence

Search

Enter the product or the seller

Search

Market

Status

Price

~ 10\$

10\$ ~ 50\$

50\$ ~ 100\$

100\$ ~



Align

choose an alignment sequence

● Shopping list

All buyers have their own shopping list which contains the products they bought in this market. Total price of the whole products in the shopping list is calculated automatically.

buyer's Shoppinglist



Product	Market Type	Status	Price
 nike cap	Flea Market	Purchased	\$6000
 IKEA Sofa	Flea Market	In Progress	\$100
			Total : \$6100

● Wish list

All users also have their own wish list. Users can add the product in the wish list before buy it if they like the product but are hesitated to buy. When they click 'add to wish' button next to the 'buy' or 'bid' button, the product is added to the wish list.

Successfully added to WISH LIST

sy's Wishlist

Product	Seller	Price
 IKEA Sofa	Dongooree	100
 nike cap	hyk2	6

4) Seller

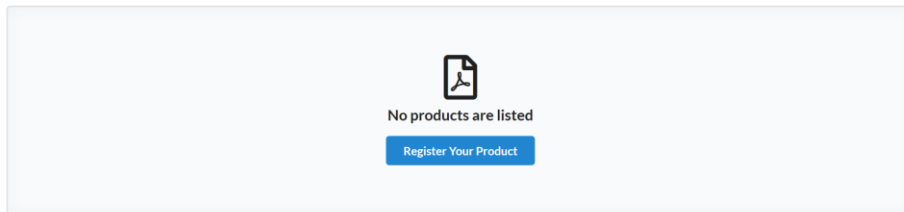
● Product registration

If the seller signed in have not registered product yet, product list for the seller tells 'No products are

listed'. 'Register Your Product' button is linked to product registration page.

Product list for seller

User ID: haha



Seller needs to fill out the form to register the product to sell. Field with *mark is mandatory thing to enter the input. Seller can choose the way they want to sell the product in 'Market Type' field. Price of auctioned product is set to the current price of the auction. Auction Due field is for setting the end day of progressed auction, so it is not necessary to enter the input for flea market product.

Product Register

Product Name *	Product Price *
<input type="text" value="Product Name"/>	<input type="text" value="Product Price"/>
Stock *	Trading Place *
<input type="text" value="Stock"/>	<input type="text" value="Product Price"/>
Market Type *	
<input type="text" value="Select the market type"/>	
Category *	
<input type="text" value="Product Category"/>	
Auction Due	
<input type="text" value="mm/dd/yyyy"/>	
Product Image *	
<input type="text" value=""/> <input type="button" value="찾아보기..."/>	
<input type="button" value="Registration"/>	<input type="button" value="Save image"/>

Market Type *



















Select the market type
Flea Market
Auction

● Product list

Product list displays all the products the seller registered with product information (name, price, status etc).

Product list for seller

User ID: seller


Product	Current Price	Status	Market Type	Management
 <Frozen> picture	\$10	In Progress	Flea Market	 
 old book	\$50	Auction	Auction End time: Dec. 28, 2019	  End the auction
 Subway coupon	\$5	Auction	Auction End time: Dec. 16, 2019	  End the auction
 HARIBO	\$2	In Progress	Flea Market	 
 Fake Flower	\$5	In Progress	Flea Market	 
 Hand made chocolate	\$8	Auction	Auction End time: Dec. 30, 2019	  End the auction

Register Your Product

Seller can end the auction by clicking the 'End the auction' button. When the auction is ended by the seller, the status of product changes to 'Purchased'. Also, the product is purchased by the winner of the auction who offers the highest price and the product is added to the buyer's shopping list.

Seller can delete the product by clicking  this icon.

Successfully deleted item

 this icon is linked to the page that shows who and how many buyers add the product to their wish list. Like the capture image below, the product named <Frozen> picture is added to wish list of a buyer whose name is 'buyer'. For the auction product, the history of auction is shown that which buyer has bid for certain price.

History of Your Product <Frozen> picture

User who wish to buy this product

buyer

1 users want to buy this product !!!

Modify Your Product

'Modify Your Product' button is linked to the modification page. The exist information of the product selected to be modified remains.

Product Modification

Product Name *	Product Price *
<input type="text" value="<Forzen> picture"/>	<input type="text" value="10"/>
Stock *	Trading Place *
<input type="text" value="19"/>	<input type="text" value="Seoul"/>
Market Type *	
<input type="text" value="Flea Market"/>	
Category *	
<input type="text" value="item"/>	
Auction Due	
<input type="text" value="mm/dd/yyyy"/>	
Product Image *	
<input type="text"/> <input type="button" value="찾아보기..."/>	

5) Additional function

● Review

Users can leave the comment of the product. The user's name, type and the date are shown.

Product Review

sk Buyer Written on Dec. 14, 2019
Wow I want to buy this !!!

sk Buyer Written on Dec. 14, 2019
Nice Cap !!!!!!!!

buyer Buyer Written on Dec. 14, 2019
I like this cap

● Products Alignment

The user can align products based on three options: “new product”, “low price”, “high price.” If the user chooses “new product”, the products will be shown by the order based on the time when products are registered. “Low price” alignment option will show products from the lowest price to the highest price. “high price” option will show products from the highest price to the lowest price.

Align

choose an alignment sequence

new product

low price

high price

- alignment by choosing “new product” option

Search

Enter the product or the seller

Search

Market

Status

Price

Auction

Flea Market

Align

choose an alignment sequence

choose an alignment sequence

new product

low price

high price

Auction

old book

\$50

book

Auction end time: Dec. 28, 2019

Registration date Dec. 16, 2019

Current Status: Auction

Seller: seller

In Auction

Auction

Subway coupon

\$5

food

Auction end time: Dec. 16, 2019

Registration date Dec. 16, 2019

Current Status: Auction

Seller: seller

In Auction

In progress

HARIBO

\$2

food

Stock: 19/18

Registration date Dec. 16, 2019

Current Status: In Progress

Seller: seller

In Flea Market

In progress

Fake Flower

\$5

flower

Stock: 5/1

Registration date Dec. 16, 2019

Current Status: In Progress

Seller: seller

In Flea Market

Auction

Hand made chocolate

\$8

food

Auction end time: Dec. 30, 2019

Registration date Dec. 16, 2019

Current Status: Auction

Seller: seller

In Auction

Auction

Macarons

\$10

food

Auction end time: Dec. 15, 2019

Registration date Dec. 16, 2019

Current Status: Auction

Seller: seller

In Auction

- alignment by choosing “low price” option

Search

Enter the product or the seller

Search

Market

Status

Price

Auction

Flea Market

Align

choose an alignment sequence

In progress

HARIBO

\$2

food

Stock: 19/18

Registration date Dec. 16, 2019

Current Status: In Progress

Seller: seller

In Flea Market

Auction

Subway coupon

\$5

food

Auction end time: Dec. 16, 2019

Registration date Dec. 16, 2019

Current Status: Auction

Seller: seller

In Auction

In progress

Fake Flower

\$5

flower

Stock: 5/1

Registration date Dec. 16, 2019

Current Status: In Progress

Seller: seller

In Flea Market

Auction

Hand made chocolate

\$8

food

Auction end time: Dec. 30, 2019

Registration date Dec. 16, 2019

Current Status: Auction

Seller: seller

In Auction

Auction

Macarons

\$10

food

Auction end time: Dec. 15, 2019

Registration date Dec. 16, 2019

Current Status: Auction

Seller: seller

In Auction

Auction

old book

\$50

book

Auction end time: Dec. 28, 2019

Registration date Dec. 16, 2019

Current Status: Auction

Seller: seller

In Auction

- alignment by choosing “high price” option

Search

Search

Market

Status













Price

Auction

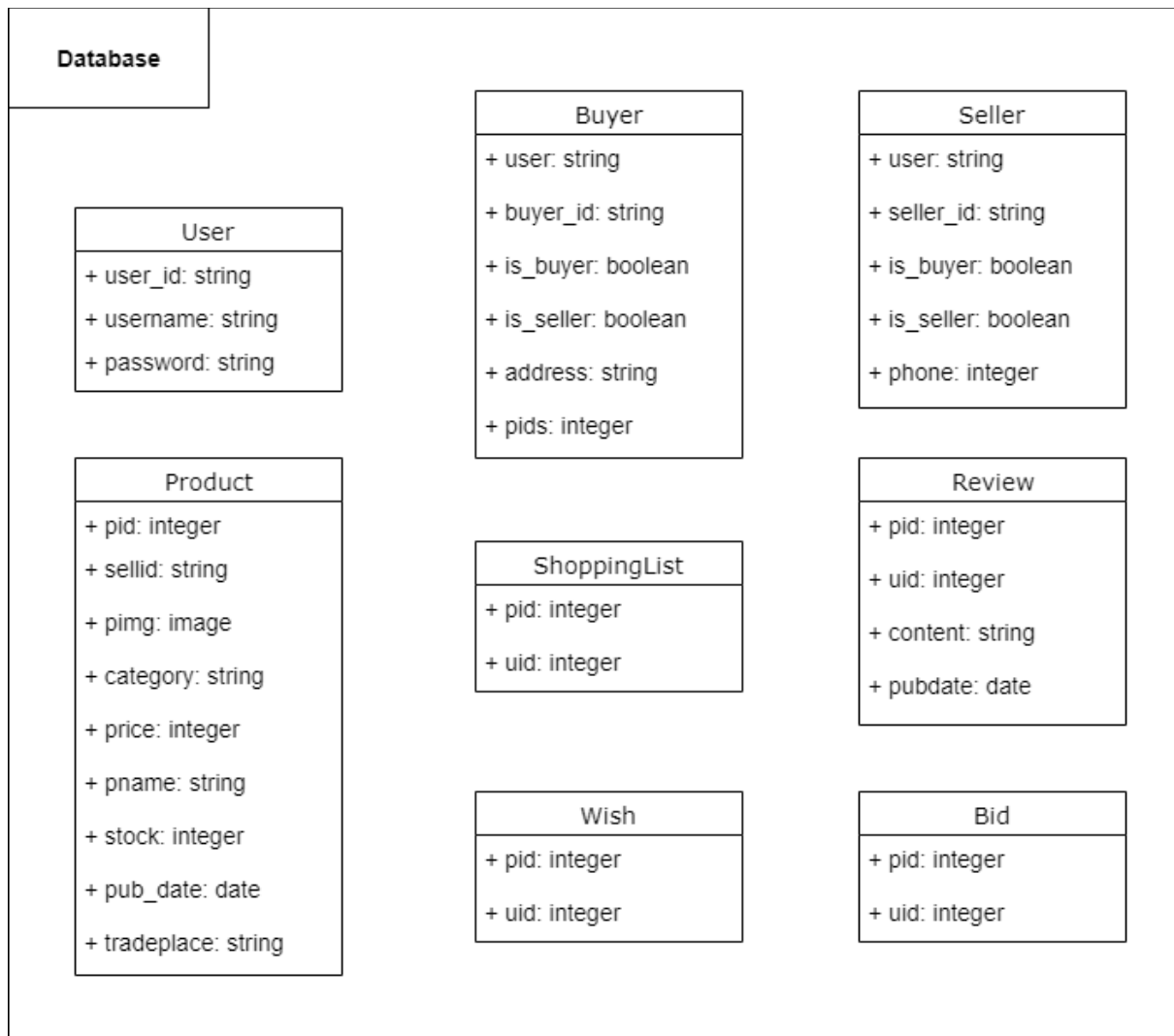
Flea Market

Align

choose an alignment sequence

 <p>\$ Auction</p> <p>old book</p> <p>\$50</p> <p>book</p> <p>Auction end time: Dec. 28, 2019 Registration date Dec. 16, 2019 Current Status: Auction</p> <p> Seller: seller In Auction</p>	 <p>\$ Auction</p> <p>Macarons</p> <p>\$10</p> <p>food</p> <p>Auction end time: Dec. 15, 2019 Registration date Dec. 16, 2019 Current Status: Auction</p> <p> Seller: seller In Auction</p>	 <p>\$ Auction</p> <p>Hand made chocolate</p> <p>\$8</p> <p>food</p> <p>Auction end time: Dec. 30, 2019 Registration date Dec. 16, 2019 Current Status: Auction</p> <p> Seller: seller In Auction</p>
 <p>\$ Auction</p> <p>Subway coupon</p> <p>\$5</p> <p>food</p> <p>Auction end time: Dec. 16, 2019 Registration date Dec. 16, 2019 Current Status: Auction</p> <p> Seller: seller In Auction</p>	 <p>In progress</p> <p>Fake Flower</p> <p>\$5</p> <p>flower</p> <p>Stock: 5개</p> <p>Registration date Dec. 16, 2019 Current Status: In Progress</p> <p> Seller: seller In Flea Market</p>	 <p>In progress</p> <p>HARIBO</p> <p>\$2</p> <p>food</p> <p>Stock: 19개</p> <p>Registration date Dec. 16, 2019 Current Status: In Progress</p> <p> Seller: seller In Flea Market</p>

#2 Database



These are the tables used in the database for the project. Each row indicates a column of respective tables. Table 'Buyer' and 'Seller' refer 'User' table. 'Product' table is for products registered on the web site. 'ShoppingList' table is for each buyer's purchase record and 'Wish' table is for each buyer's record of the product on the wish list. 'Review' table is for the reviews written by users for each product. 'Bid' table is for the records that the buyer has bid for a certain price on the auction product.