REPORT

Class: Web Programming

Subject: Project Report

Professor: Tamer

Major: Computer Science / Electrical Engineering

Team Members: 심명규 2014311788 / CS

신수환 2014310529 / EE

류호성 2015312133 / CS

김준현 2014312794 / CS

Due Date: 2019.12.19

1. Purpose

The project aims to design a web page for SKKU flea market. People can register a market with 2 circumstances – Buyer, Seller. Seller can upload the products and buyer can buy their products from the site.

2. Design Specification

1) Describe what is the problem

The site implementation for each member – Buyer, Seller and Administrator are different. First, Administrator can manage member list. Administrator can see all member's student ID, password, name, and classification, which shows if he or she is buyer or seller. In addition, they could do either modification of member's information or member deletion.

Seller is the member who wants to sell product. So, they could do product registration. Product information includes name, price, trading place, and phone number. Also, products can be handled by auction, so seller can proceed an auction without setting a price. Also, product info could be modified or either can be deleted. In the menu, member could check their product list specifically – price and bidder.

Buyer is the member who wants to buy product. They could see the product list which seller uploaded to the site. They could check their shopping list with calculation of products they bought. The price of the auction is reflected to the shopping list when they are over. Also, they could buy product with 'Buy' button, or give a bid on auction. They could put their wish list also. They could search product by seller name, product name, and hope price.

On the common page, it will have login page, registration page, and product page. [1]

2) Describe how to solve the problem

The main HTML codes are all designed in JSP. Java is used to implement functionalities to control databases with user requests.
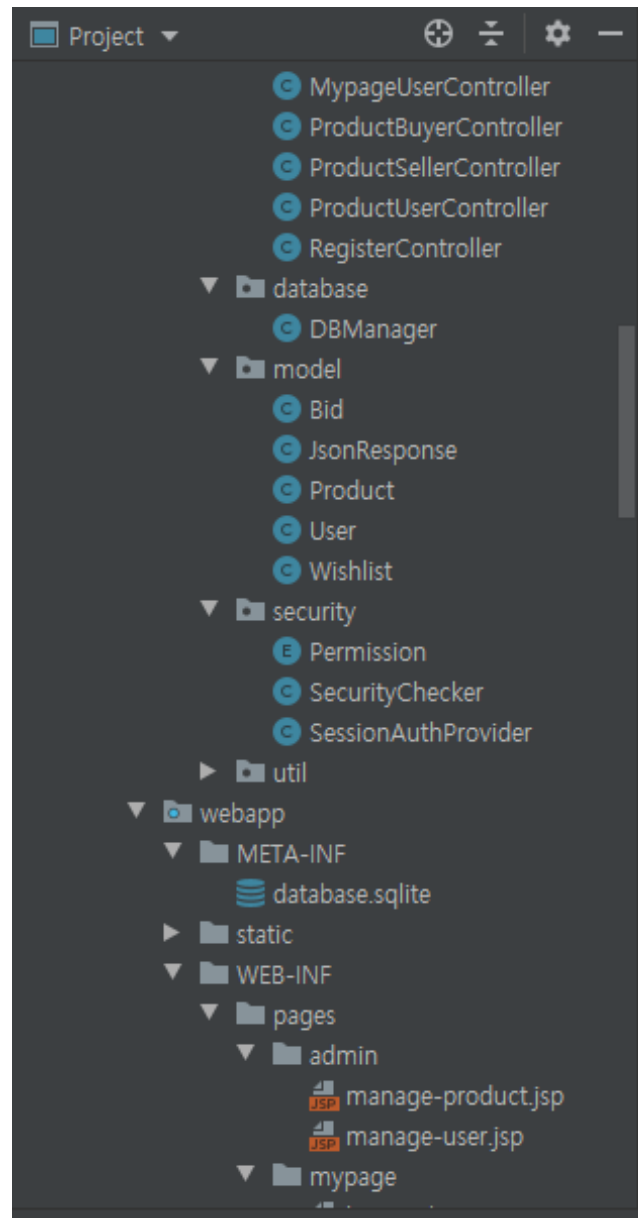
[Picture 1] Codes of Project

We used Colorlib template as the base for HTML and CSS files. [2] Also, we used IntelliJ IDE to build our website [3] and used to Apache Tomcat for our server.[4]

```jsp
52
53          </style>
54      </head>
55      <body>
56      <div class="hero-wrap img vh-100" style="...">
57          <div class="overlay"></div>
58      </div>
59      <div class="container bg-white p-4 ftco-animate">
60          <div class="title">SKKU Flea Market</div>
61          <h1 class="text-center">로그인</h1>
62          <form action="login" method="post" class="p-4 bg-light rounded-lg mb-0">
63              <div class="p-4 text-center">
64                  <img src="static/images/profile-user.png" class="profile-img"/>
65              </div>
66              <input type="text" name="id" class="form-control mb-2" placeholder="아이디" required>
67              <input type="password" name="password" class="form-control mb-2" placeholder="비밀번호" required>
68              <c:if test="${not empty errorMessage}">
69                  <div class="text-danger text-center">${errorMessage}</div>
70              </c:if>
71              <button type="submit" class="btn btn-block btn-primary py-3 px-5">로그인</button>
72              <a class="btn btn-block btn-light py-3 px-5" href="register">회원가입</a>
73          </form>
74      </div>
75
```

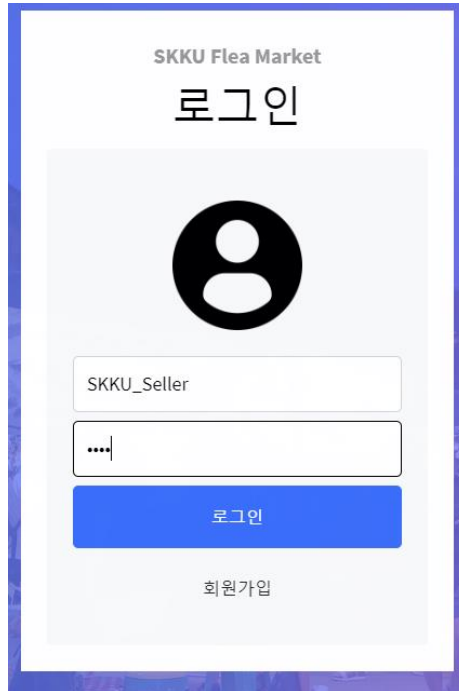[Picture 2] Example of JSP code

3. Function Implementation Results

(1) Common Page

1) Registration Page

[Picture 3, 4] Register Page on left and Error Page on right

In the registration page, users may put their ID, password, name, phone number, and member classification. There is also an ID validation feature as well. If an ID already exists, the webpage notifies the user that the ID already exists.
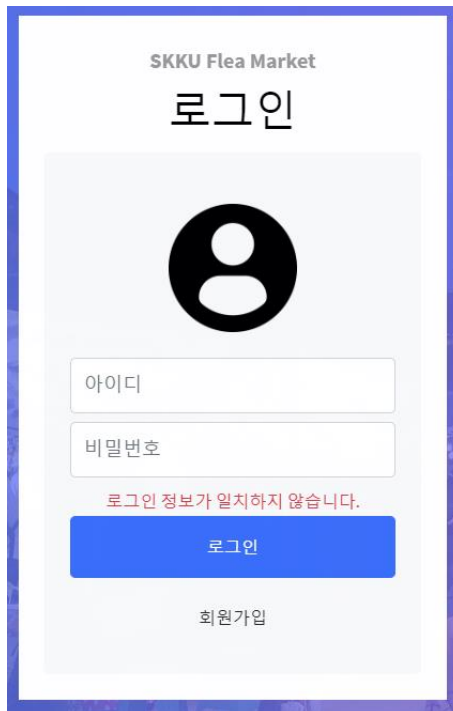
2) Login Page

[Picture 5] Login Page

If ID or password does not match, error message will occur.

[Picture 6] Login Page – Error Message

3) Product Page

Product will be shown on the product page when seller registers it.

상품명
침대

카테고리	등록일	거래 장소
가구	2019-12-17	지관

상품 설명
작고 귀엽고 실용적인 침대입니다. 작고 귀엽고 실용적인 침대입니다. 작고 귀엽고 실용적인 침대입니다.
작고 귀엽고 실용적인 침대입니다. 작고 귀엽고 실용적인 침대입니다. 작고 귀엽고 실용적인 침대입니다.

상품 이미지

정찰제 거래
판매자가 정한 가격으로 거래합니다.

판매 기한
2019-12-18 22:00

가격
100,000원

★ 찜하기   구매

판매자 정보

이름
asdf
연락처
010-0001-1398

[Picture 7] Product Page

(2) Seller
1) Product Registration

[Picture 8] Product Registration Page

Seller can register products with name, category, trading place, trading type, cost, due date, and simple description of product. They can attach image files, too. Phone number is registered in the seller's user information. The seller can start the auction from 0₩ (not setting a price).

2) Seller's Product List

상품 거래 히스토리

분류	이름	유형	가격	기한	상태	찜 현황	입찰(경매)	비고
가구	asdf	네고	1000	2019-12-19	판매 완료	0		수정 삭제
기타	경매	경매	100500	2019-12-17	판매 완료	0	admin: 1000 2019-12-17 07:00 asdffff: 4000 2019-12-17 07:01 asdf: 100000 2019-12-17 07:01 asdf: 100500 2019-12-17 07:06	수정 삭제
가구	침대	정찰제	100000	2019-12-18	판매중	0		수정 삭제

[Picture 9] Product List Page

After registration, the seller can check his/her product on history page. After administrator's approval, the product will be shown to all users. Also, they could check the history of auction, as well as the number of people who wants to buy their products.

id	name	description	price	finalprice	tradingplace	i
필터	필터	필터	필터	필터	필터	필터
2	TEST	아주 깔끔하…	100000	100000	Ji Dormitary	data:
1	상품상품	100자 너무 …	5000	5000	장소장소	

[Picture 10] Product on Database

It is managed on the database sheet.

3) Product Info

The seller may modify or delete his/her products before the product is sold.

상품 정보 편집 ✕

상품명

TEST

카테고리

○ 전자기기
● 가구
○ 도서
○ 의류
○ 기타

거래 장소

Ji Dormitary
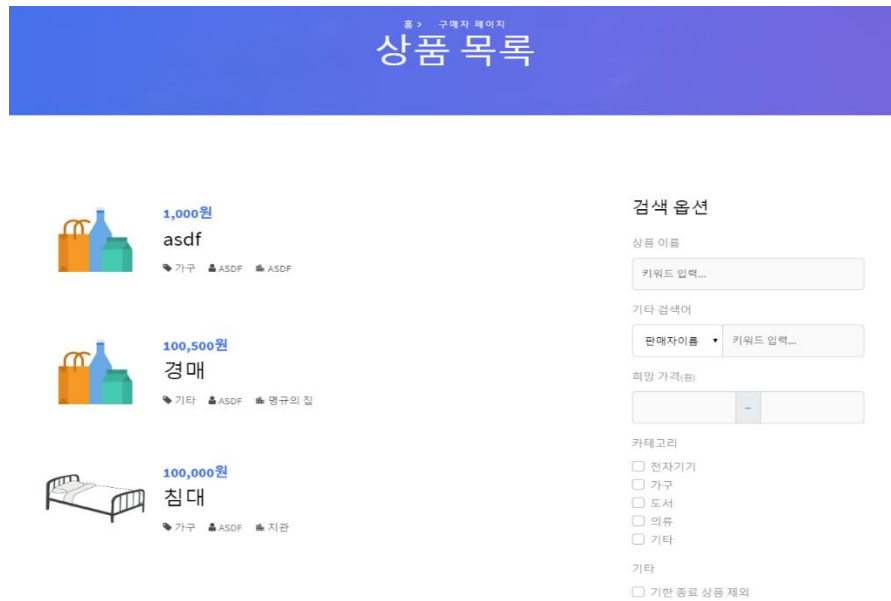
거래 유형

거래 유형은 변경할 수 없습니다.

판매 금액 (시작 금액)

100000

거래유형이 경매인 경우, 입찰이 들어왔다면 이 항목을 편집해도 현재 가격에는 변화가 없습니다.

판매 기한

2019-12-18 오후 08:00

[Picture 11] Product Information Modification

(3)　Buyer

1) Product list

[Picture 12] Product List

After administrator's approval, the product will be displayed on the product list page. Also, we could search products by options. By clicking the product, buyers can check the details of product.

2) Shopping List

상품 거래 히스토리

구매 완료

분류	이름	판매자	유형	기한	가격
전자기기	XBox 360	fdsa	경매	2019-12-17	10500
가격 합계					**10500**

경매 진행 중

분류	이름	판매자	기한	입찰가
가격 합계				**0**

네고 진행 중

분류	이름	판매자	기한	네고가
가구	침대프레임	fdsa	2019-12-17	40000
가격 합계				**40000**

전체 합계 (진행중 경매, 네고 포함): 10500 (50500)

마이페이지 메뉴

◉ 프로필 관리

✿ 거래 정보 관리 (구매자)

★ 찜 목록 관리

Buyers can view their shopping list on "My Page".

3) Product Buy

[Picture 13] Auction Type Product

[Picture 14] Bidding on Auction

If seller as set the selling type as auction, the remaining time and cost of present time is shown. Buyer can bid the product by clicking bid button.

When the time expires, the type of the product is changed into sold out.

[Picture 15] General Type Product

On the general type product, by 'buy' button, product will be purchased and changed into sold out type.

[Picture 16] Sold Out Product

4) Product Search

[Picture 17] Search Bar

On search, it will display search results by product list page.

검색 옵션

상품 이름

키워드 입력...

기타 검색어

판매자이름 ▾ 키워드 입력...

희망 가격(원)

[~   ]
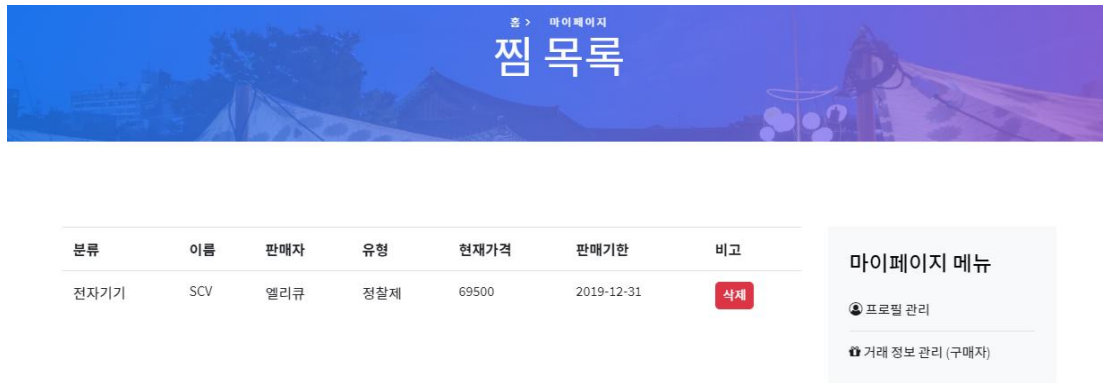
카테고리

☐ 전자기기
☐ 가구
☐ 도서
☐ 의류
☐ 기타

기타

☐ 기한 종료 상품 제외

🔍 검색

[Picture 18] Search Options on Product List page

Buyers can search by name, price and category.

5) Wishlist

[Picture 19] Wishlist

Wishlist can be checked on "My Page". Buyers can remove products from the Wishlist if the buyer do not want to buy the item anymore.

(4)　Administrator

To use administrator account, put the User type should be manually set to ADMIN on the database.
(Administrator only can made by authorized user.)

	id	password	type	name	phonenumber
	필터	필터	필터	필터	필터
1	asdf	YXNkZg==	BUYER	asdf	
2	fdsa	ZmRzYQ==	SELLER	fdsa	
3	SKKU_Seller	YXNkZg==	SELLER	팔사람	010-0000-1398
4	SKKU_Buyer	YXNkZg==	BUYER	사는사람	010-0001-1398
5	ADMIN	YXNkZg==	ADMIN	이름	*NULL*

[Picture 20] ADMIN Type Database

1) Member List

[Picture 21] Member list administration

Administrators can check ID, password, name, phone number and classification of each user.

2) Member Modification and Deletion

[Picture 22] Member info Modification

Administrator can modify information of member. They can change password, name, phone number, and type of user.

아이디	패스워드(암호화)	이름	전화번호	유저타입	비고
asdf	YXNkZg==	asdf		구매자	수정 삭제

홈 > 관리자 페이지

사용자 관리

아이디	패스워드(암호화)	이름	전화번호	유저타입	비고
fdsa	ZmRzYQ==	fdsa		판매자	수정 삭제
SKKU_Seller	YXNkZg==	팔사람	010-0000-1398	판매자	수정 삭제
SKKU_Buyer	YXNkZg==	사는사람	010-0001-1398	구매자	수정 삭제
ADMIN	YXNkZg==	이름		관리자	수정 삭제

[Picture 23] Deletion of User

Deletion of user ID can be done as well.

(5) Extra Functions

1) Responsive Web Page

The layout of the page changes by the size of the window.
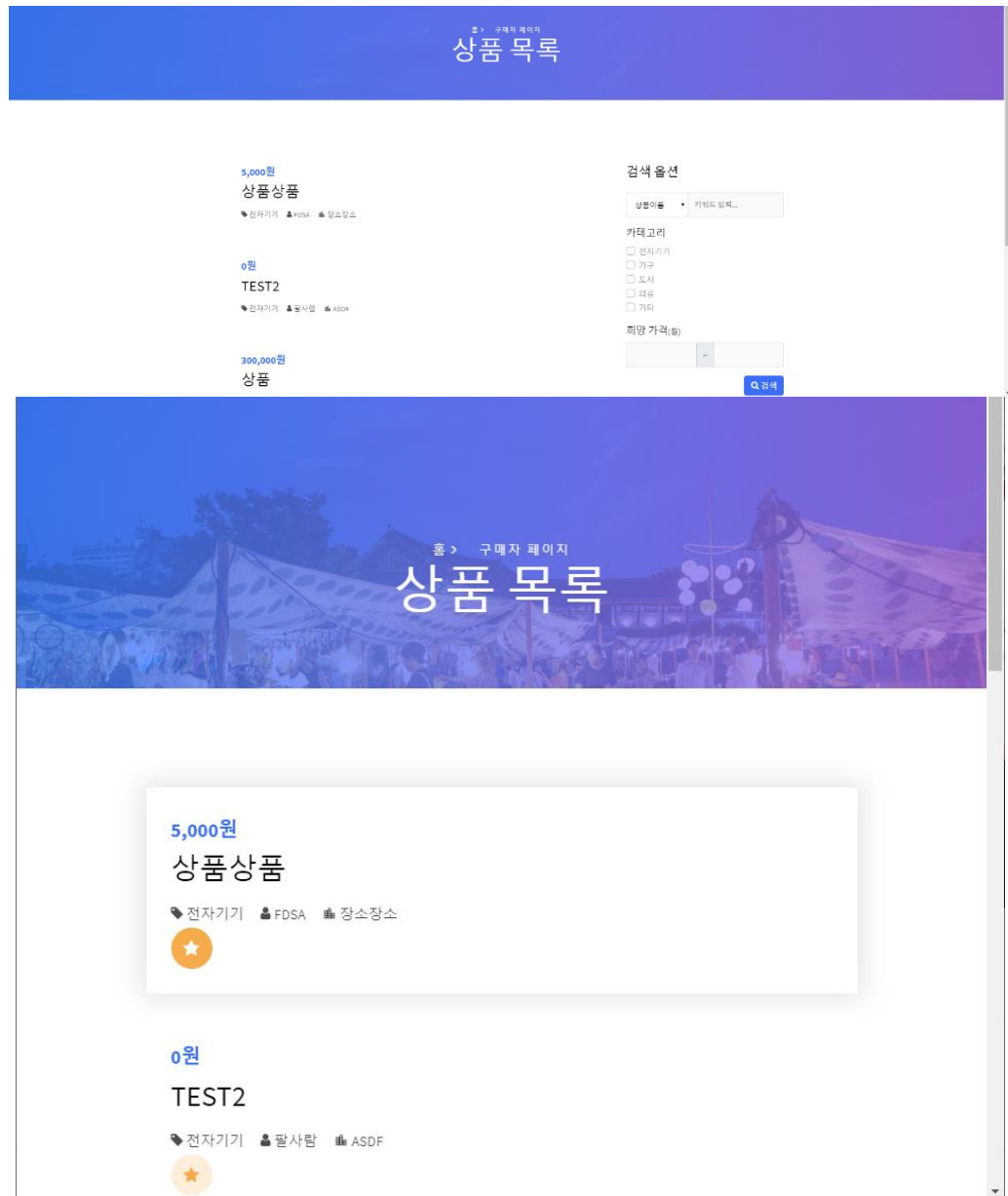
[Picture 24] Responsive Web Page

2) Search by Category

Buyers can search things by category also.

[Picture 25] Search by Tag

3) Profile Modification

Users – Buyers and Sellers – can modify their profile by themselves.

[Picture 26] Modify Profile

4) Selling by Negotiation
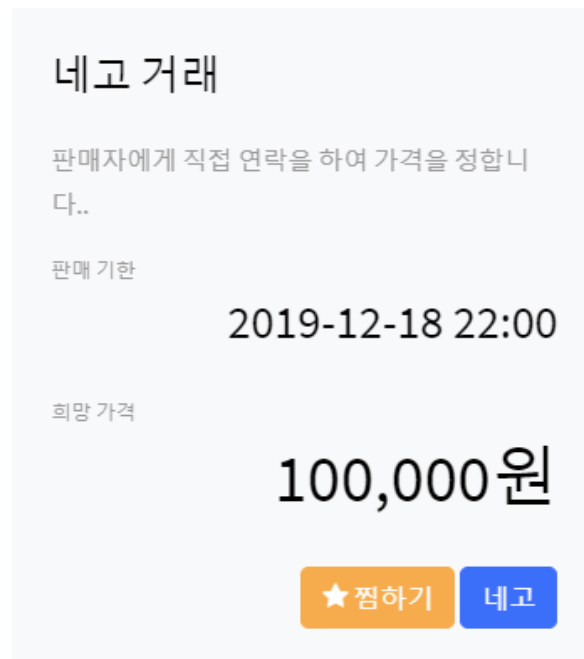
[Picture 27] Negotiation

Buyers can negotiate price with the seller. If the seller accepts the negotiation price, the product will be sold at that price.

5) Selling Approval by Admin

분류	이름	판매자	유형	가격	기한	상태	비고
가구	asdf	asdf	네고	1000	2019-12-19	판매 완료	수정 삭제
기타	경매	asdf	경매	100500	2019-12-17	판매 완료	수정 삭제
가구	침대	asdf	정찰제	100000	2019-12-18	판매중	수정 삭제
기타	네고	asdf	네고	100000	2019-12-18	등록 대기	승인 수정 삭제

[Picture 28] Approval

After the seller register his/her product, the administrator will check the product, and if it is OK, administrator will going to have an approval. If not, administrator will decline the product.

4. Roles

심명규: Login, Register, Main, Product page Frontend

신수환: My page, Administrator page Frontend

류호성: Product, Bidding, Wishlist Backend

김준현: Login, Register, Admin, DB Backend

5. References

[1] "2019-2 SWE 3048 WP Term Project Notice.pdf". (2019). [ebook] Available at: https://icampus.ac.kr [Accessed 16 December. 2019].

[2] SkillHunt. Colorlib.

[3] InteliJ. Intel.

[4] Apache Tomcat. Apache Software Foundation.