

Web Applications, A.Y. 2019/2020
Master Degree in Computer Engineering
Master Degree in ICT for Internet and Multimedia

Homework 1 – Client-side Design and Development

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Objectives

The Online Shopping System (OSS) is a web-based application. The purpose of the application is to automate and facilitate the whole process of shopping. This application fixes the limitation and problems of paper based processes. The main goal to increase the quantity of sales by making the new technology of web pages design more attractive. Also, viewing the another related items to increase interest of customers. Nowadays, shopping online is occupying an essential part of shopping, big and small companies or stores need to have its commercial website. This system involves its own database to be maintained. As the information or details about the products are stored in the database (like RDBMS) for the server side functionalities.

Main functionalities

It is an interface to be used by the customer and the product owner. However, it is only designed for the customer for now. Customer can login with password and mail information. It currently logs in with any password since there is no related database connection. It sees the products divided into categories. You can see the popular ones separately from the products. Popular products are listed. In addition, the detailed information of the products is clicked on the relevant button, and displays the description, price, color, size and user comment information. And most importantly, you can see other related products similar to that product. It can add products to the basket. You can see the order summary information. It sees with the total amount of the price. If you want, you can delete the product from your basket. And it can filter and search as desired. You can sort by price status.

Design choices

The interface is basically designed with React. It was first developed by creating with "create react app". Layered architecture was tried to be used. All of the components are put in a separate package, React's own icons are used. React's various libraries are imported and designed with css, html, js technologies. Sample data was placed. Some of the pictures from the amazon dataset were used. I designed with React Js because, **ReactJS** is a JavaScript library that combines the speed of JavaScript and uses a new way of rendering webpages, making them highly dynamic and responsive to user input. React is a JavaScript library so if a developer is familiar with JS functions, they will have an easier start with ReactJS. With this library, developers define interfaces with an HTML-like syntax called JSX. As a result, HTML and CSS code is produced. React's API is very small, yet powerful, and all you need to do before you start is to learn a few basic functions.

Login



Login

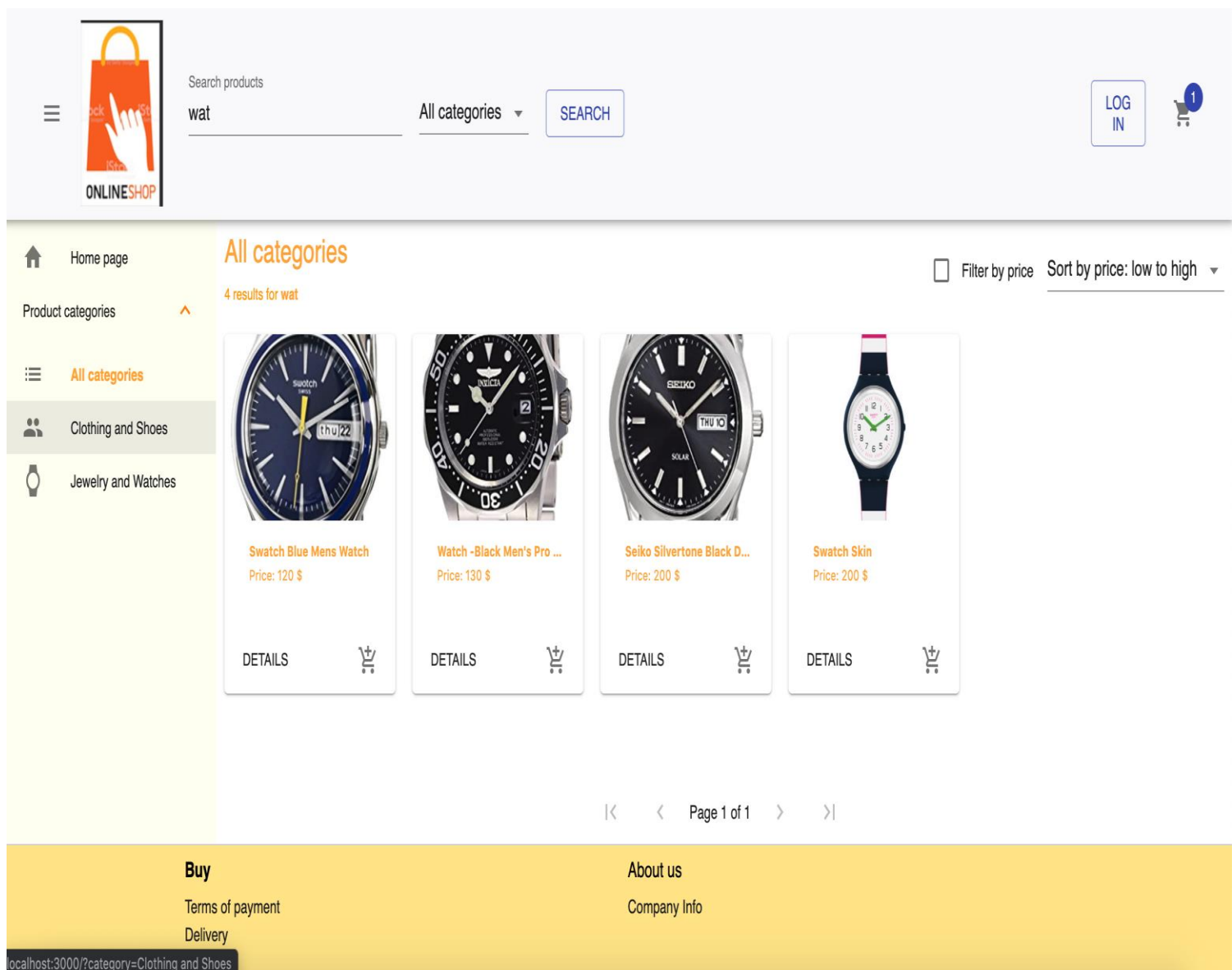
Enter your email address

Enter your password

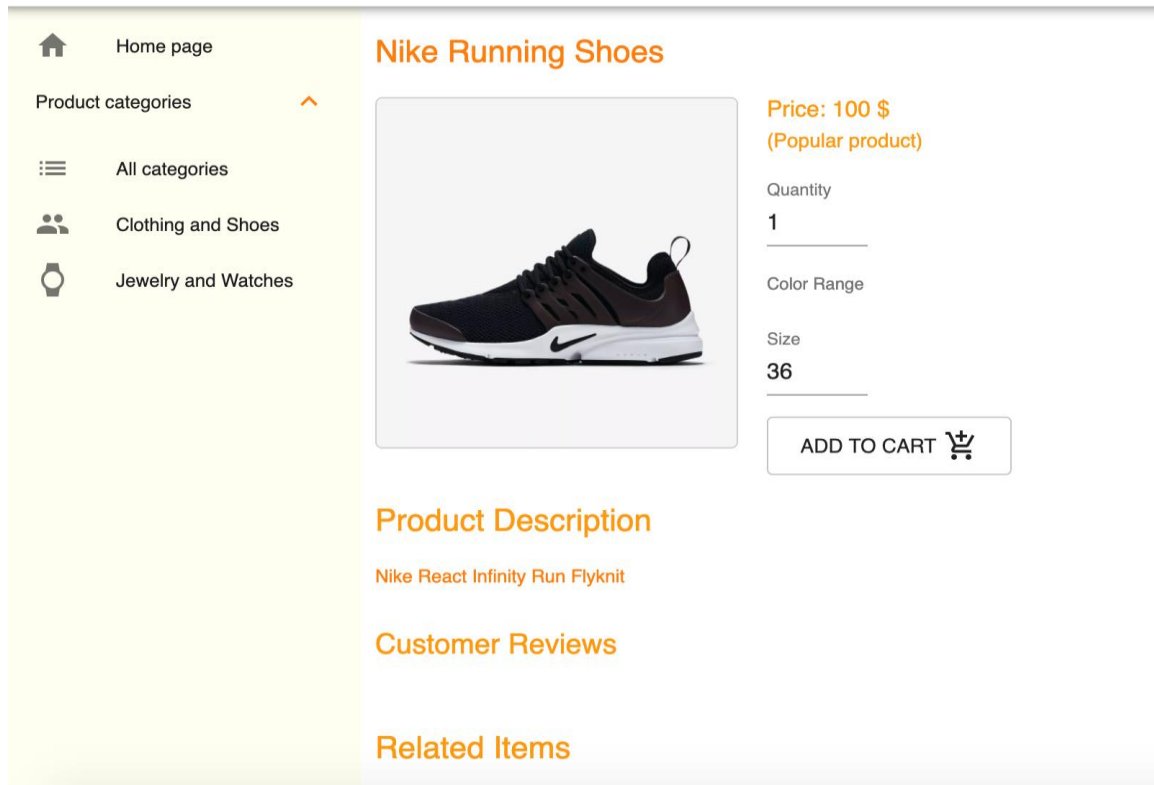
LOGIN

REGISTER

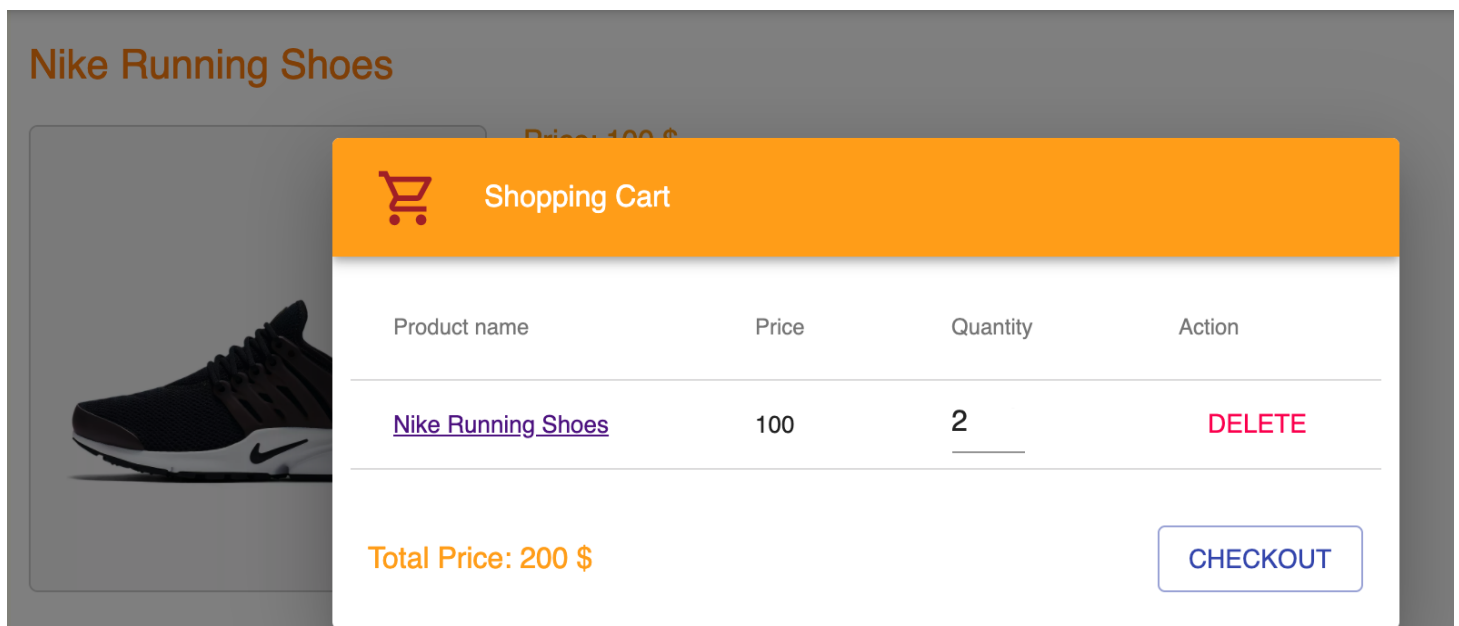
The customer should log in with password and e-mail information. It currently logs in with any password, as there is no related database connection. And there is a register page. With the register, the information received from the user is transferred to the database. Then, it can be controlled from there and the user can login.




There is a menu on the left where the user can see the products categorized. Or there is a tab where you can see popular products. In the section above, there is a search section where you can query the desired product. It can also search by price range, and sort by prices. And the section where you can view its basket is above. This is the screen the user sees first.





And, this is the page where the product details are displayed. Color information, quantity information, and size information. There are also user and related descriptions.





This is displayed when adding the product to the basket. The discard button is working. However, purchase button is not working right now.

 Home page

 Product categories ^

 All categories

 Clothing and Shoes

 Jewelry and Watches

Order Summary

Product name	Price	Quantity
Nike Running Shoes	100	2

Total price: 200 \$

PURCHASE

DISCARD

And the customer sees in this way together with the total price amount on the order summary page.