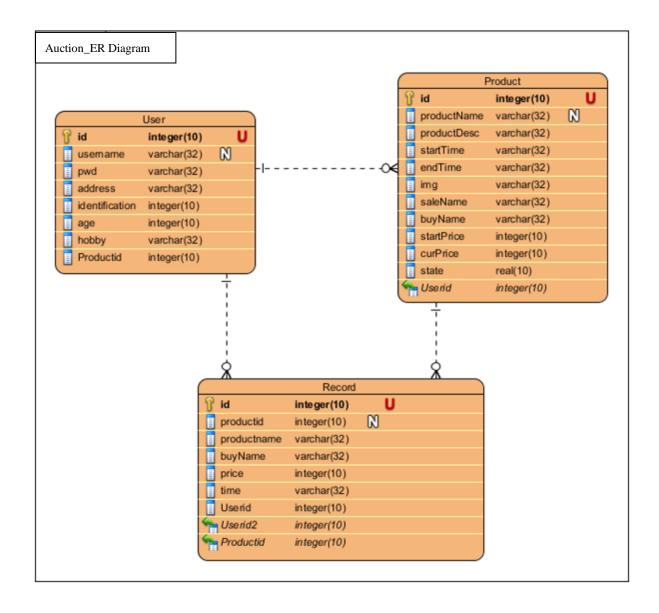
Online Auction System

This online auction system has main functions including user login registration, user information update, auction retrieval, personal bidding records, my auctions and new auction, etc. Introductions of main components are as follows.

1. Database: MySQL

The name of database is auction, there are three tables inside: user, product and record. Their associations are as follows. The SQL command use to create the database and table can be found in mysql.txt.



2. Backend: Java

1) <u>VO</u>

| File Name | Descriptions |
|------------------|---|
| LoginUserVO.java | Package logged-in user information |
| ProductVO.java | Package product information |
| RecordVO.java | Package bidding records |
| RegisterVO.java | Package user information when registering |

2) <u>DAO</u>

DAOBase.java: Connect with MySQL

UserDAO.java: Main functions of the website

| Function Name | Descriptions |
|--|---|
| public List <productvo> isOnSale()</productvo> | List all products that is on sale from table product |
| public ProductVO queryByProductId | View detail information of the product |
| public List <productvo> queryByKeyword</productvo> | Search product by keyword |
| public List <productvo> queryBySaleName</productvo> | Search product by vendor's name |
| public List <productvo> queryByBuyName</productvo> | Search product by username |
| public List <recordvo> queryMyProduct</recordvo> | Check user's bidding records |
| public List <recordvo> queryRecordByProductId</recordvo> | View the successful deal |
| public int totalPage | Count total page number |
| public boolean submitPrice | Determine whether bidding is success or not |
| public int maxPrice | Find out the highest bidding price |
| public String maxBuyer | Find out who is the top buyer |
| public boolean endAuction | After the auction ends, add a record of max price, buyer and end time into the database |
| public boolean addAuction | Add new auctions |
| public boolean username | Determine whether the username is identical |
| public boolean insert | Save new user info into the database |
| public boolean update | Update user info |

2) servlet: realizing the functions and page turns

| File Name | Descriptions |
|-----------------------------|-------------------------------|
| AddAuctionServlet.java | Add new auction |
| EndAuction.java | Close the auction |
| LoginServlet.java | User log on |
| LogoutServlet.java | User log out |
| ProductDetailServlet.java | Show product details |
| QueryProductBySaleName.java | View my auctions |
| QueryProductServlet.java | Search product using keywords |
| ShowRecord.java | View my bidding records |
| SubmitPriceServlet.java | Submit the bidding price |
| UserRegister.java | Register new users |
| UserUpdate.java | Update user infomation |

3. Frontend: jsp

| File Name | Descriptions |
|------------------|---|
| welcome.jsp | Welcome page of the online auction system |
| UserRegister.jsp | User registration page |
| UpdateUser.jsp | User info update page |
| showRecord.jsp | User bidding record page |
| queryProduct.jsp | Product query page |
| productDesc.jsp | Product description page |
| newProduct.jsp | Add a new product page |
| myAuction.jsp | View my auction page |
| login.jsp | Login page |
| loggedIn.jsp | User home page |
| endSuccess.jsp | Auction close page |