

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) VO

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) DAO

DAOBase.java: Connect with MySQL

UserDAO.java: Main functions of the website

Function Name	Descriptions
public List<ProductVO> isOnSale()	List all products that is on sale from table product
public ProductVO queryByProductId	View detail information of the product
public List<ProductVO> queryByKeyword	Search product by keyword
public List<ProductVO> queryBySaleName	Search product by vendor's name
public List<ProductVO> queryByBuyName	Search product by username
public List<RecordVO> queryMyProduct	Check user's bidding records
public List<RecordVO> queryRecordByProductId	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