**MINISTRY OF EDUCATION AND TRAINING**

**FPT UNIVERSITY**

Capstone Project Report 5

**Building the bids online system**

|  |  |
| --- | --- |
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| **Capstone Project Code** | eBOS |

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# System Implementation & Test

## Details Description

### Overview

This section describes the approach and methodologies used by group to plan, organize and manage the testing of eBOS system. It provides in detail all necessary information about the implementation and testing procedure of the system included test plans, test cases, test result, test environments, pass/fail criteria and risks estimations as well as a checklist to cover all possible cases.

### Test approach

* Goal: Test all features in the whole eBOS system based on the core flow.
* Method: black-box testing
* Technique: check list

The testing for this project will consists of Integration System test level. Testing the program which was integrated and as a complete system to ensure that the software requirements have been met.

* Integration testing would be performed by all member of team and approved by team leader.

System testing is focused on assessing the system’s reliability. This process is concerned with finding errors that result from unanticipated interactions between components and component interface problems.

## Database Relationship Diagram

### Physical diagram

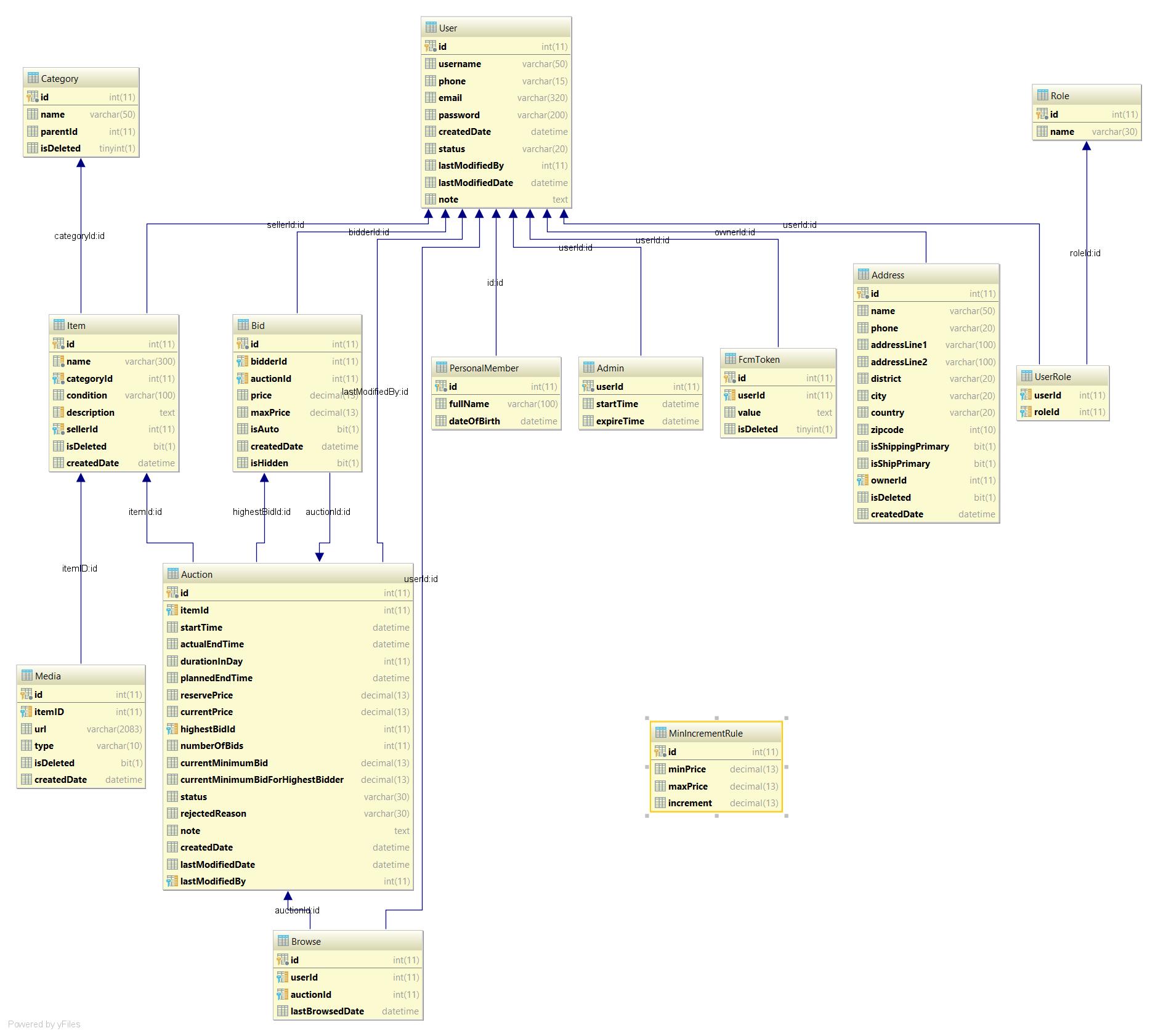


Figure 1 – Physical Database Diagram

### Data dictionary

|  |  |
| --- | --- |
| **DATA DICTIONARY: DESCRIBE CONTENT OF ALL TABLES** | |
| **Table name** | **Description** |
| User | Contains the user information. |
| Admin | Contains the admin information. |
| Personal Member | Contains the personal member (auctioneer, bidder) information. |
| Role | Contains the role information. |
| UserRole | Contain the user’s roles information. |
| Address | Contain the address roles information. |
| Item | Contains the item information. |
| Auction | Contains the auction information. |
| Category | Contains the category information. |
| Media | Contains the media information. |
| Bid | Contains the bid information. |
| MinIncrementRule | Contains the minimum increment rule information (for calculating minimum bid that bidder has to place on an item). |
| Fee | Contains the fee information that user will be charged for using some system’s functions. |
| FcmToken | Contain user’s tokens for notification. |
| Browse | Contain user’s auction browing history. |

Table 1 - Data Dictionary All Tables

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Table Name | Attributes | Description | Domain | Nulls |
| User | id | Unique identifier of a user. | INT(11) | NO |
| username | User’s username. | VARCHAR(50) | NO |
| password | User’s password. | VARCHAR(200) | NO |
| phone | User’s phone. | VARCHAR(15) | NO |
| email | User’s email. | VARCHAR(320) | YES |
| isActive | User is active or not. | BIT(1) | YES |
| createdDate | User’s created date. | DATETIME | YES |
| lastModifiedDate | User’s last modified date. | DATETIME | YES |
|  | lastModifiedBy | Unique identifier of user who modified lastly this one. | INT | YES |
| Admin | userId | Unique identifier of an admin (from that of his/her user account). | INT(11) | NO |
| startTime | Admin’s start time for effective operations. | DATETIME | YES |
| expireTime | Admin’s expire time for effective operations. | DATETIME | YES |
| Personal member | userId | Unique identifier of a personal member (from that of his/her user account). | INT(11) | NO |
| fullName | Personal member’s full name. | VARCHAR(100) | NO |
| dateOfBirth | Personal member’s date of birth. | DATETIME | YES |
| lastModifiedDate | Personal member’s last modified date. | DATETIME | YES |
| Role | id | Unique identifier of Role. | INT(11) | NO |
| Name | Name of Role. | VARCHAR(30) | NO |
| UserRole | id | Unique identifier of user’s role. | INT(11) | NO |
| userId | Unique identifier of user. | INT(11) | NO |
| roleId | Unique identifier of role. | INT(11) | NO |
| Address | id | Unique identifier of an address. | INT(11) | NO |
| name | Address’s name. | VARCHAR(50) | NO |
| phone | Address’s phone. | VARCHAR(50) | NO |
| addressLine1 | Address’s addressline1 (Street name, town, ward, etc). | VARCHAR(100) | NO |
| addressLine2 | Address’s addressline2 (floor number, apartment number, etc). | VARCHAR(100) | YES |
| district | Address’s district. | VARCHAR(20) | NO |
| country | Address’s country. | VARCHAR(20) | YES |
| zipCode | Address’s ZIP code or portal code. | INT(10) | YES |
| isShippingPrimary | Is address is default for shipping address or not (receiving item). | BIT(1) | NO |
| isShipPrimary | Is address is default for ship address or not (sending item). | BIT(1) | NO |
| owner | Unique identifier of address’s owner. | INT(11) | NO |
| isDeleted | Address is deleted or not. | BIT(1) | YES |
| createdDate | Address’s created date. | DATETIME | YES |
| Item | id | Unique identifier of an item. | INT(11) | NO |
| name | Item’s name. | VARCHAR(300) | NO |
| description | Item’s description. | TEXT | NO |
| condition | Item’s condition. | VARCHAR(100) | NO |
| category | Item’s category. | INT(11) | NO |
| sellerId | Unique identifier of seller. | INT(11) | NO |
| isDeleted | Item is deleted or not. | BIT(1) | YES |
| createdDate | Item’s created date. | DATETIME | YES |
| Auction | id | Unique identifier of an item. | INT(11) | NO |
| itemId | Unique identifier of auction’s item. | INT(11) | NO |
| startTime | Auction’s start time. | DATETIME | NO |
| actualEndTime | Auction’s end time. | DATETIME | YES |
| durationInDays | Auction’s duration in days. | INT(11) | NO |
| plannedEndTime | Auction’s planned end time. | DATETIME | YES |
| reservePrice | Auction’s reserve price. | DECIMAL(13) | NO |
| currentPrice | Auction’s current price. | DECIMAL(13) | YES |
| highestBidId | Unique identifier of auction’s highest bid. | INT(11) | YES |
| currentMinimumBid | Auction’s current minimum bid. | DECIMAL(13) | YES |
| currentMinimumBid ForHighestBidder | Auction’s current minimum bid for highest bidder. | DECIMAL(13) | YES |
| status | Auction’s status. | VARCHAR(30) | NO |
| note | Auction’s note for being rejected by admin. | TEXT | YES |
| rejectedReason | Auction’s reason for being rejected by admin. | VARCHAR(30) | YES |
| createdDate | Auction’s created date. | DATETIME | YES |
| lastModifiedDate | Auction’s last modified date. | DATETIME | YES |
| lastModifiedBy | Unique identifier of user who modified  lastly this auction. | INT(11) | YES |
| Category | id | Unique identifier of category. | INT(11) | NO |
| name | Category’s name. | VARCHAR(50) | NO |
| parentId | Unique identifier of category’s parent. | INT(11) | YES |
| isDeleted | Category is deleted or not. | BIT(1) | YES |
| Media | id | Unique identifier of media. | INT(11) | NO |
| item | Media’s Item. | INT(11) | YES |
| url | Media’s URL. | VARCHAR(2083) | NO |
| type | Media’s type. | VARCHAR(10) | YES |
| isDeleted | Media is deleted or not. | BIT(1) | YES |
| createdDate | Media’s created date. | DATETIME | YES |
| Bid | id | Unique identifier of bid. | INT(11) | NO |
| bidderId | Unique identifier of bidder. | INT(11) | YES |
| auctionId | Unique identifier of auction. | INT(11) | YES |
| price | Bid’s price. | DECIMAL(13) | YES |
| maxPrice | Bid’s maximum price. | DECIMAL(13) | YES |
| isAuto | Bid is placed by automatic bidding system or not. | BIT(1) | YES |
| createdDate | Bid’s created date. | DATETIME | YES |
|  | isHidden | Bid should be hidden from view or not. | BIT(1) | YES |
| MinIncrementRule | id | Unique identifier of rule. | INT(11) | NO |
| minPrice | Rule’s minimum price. | DECIMAL(13) | NO |
| maxPrice | Rule’s maximum price. | DECIMAL(13) | NO |
| increment | Rule’s increment. | DECIMAL(13) | NO |
| FcmToken | id | Unique identifier of token. | INT(11) | NO |
| userId | Unique identifier of user. | INT(11) | NO |
| value | Token’ value. | TEXT | NO |
| isDeleted | Token is deleted or not. | BIT(1) | YES |
| Browse | id | Unique identifier of browse | INT(11) | NO |
| userId | Unique identifier of user. | INT(11) | NO |
| auctionId | Unique identifier of auction. | INT(11) | NO |
| lastBrowsedDate | Last date that user browsed auction. | DATETIME | YES |

Table 2 - Data Dictionary

## Test plan

The overall purpose of testing is to ensure eBOS meets its entire technical, functional and business requirement. The purpose of this document is to describe the overall test plan and strategy for testing the eBOS. The approach described in this document provides the framework for all testing related to this application. Individual test cases will be written for each version of the application that is released. This document will also be updated as required for each release.

### Features to be tested

* Admin: Accept, reject pending auctions.
* Seller: Submit auction, View selling history.
* Bidder: Place a bid, View bidding history.
* Guest: Register, Login.

### Features not to be tested

* Search auctions.
* Activate users
* Restrict users.

## System Testing Test Case

### Web Application Test Case

#### <Guest> Register Account

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | Test case procedure | Expected output | Result | Test Date |
| AL\_1 | Test phone number authentication | 1. User enters “Hoang1905” into “Tên đăng nhập” required field.  2. User enters “hoang1905@gmail.com” into “email” required field.  3. User enters “01283383166” into “phone” required field.  4. User enters “Huy Hoang” into “fullName” required field.  4. User enters “19051996” into “Mật khẩu” required field.  5. User chooses “19/5/1996” into “Ngày sinh” required field. | 1. System shows “Xác nhận số điện thoại”. | Pass | 18/11/18 |
| AL\_2 | Register | 1. User enters “01283383166” into “Enter your mobile number” required field.  2. User clicks “Next” button. | 1. System sends text messages through the phone contains PIN CODE. | Pass | 18/11/18 |
| AL\_3 | Input pin code | 1. User enters “902478” into “Enter your code” required field. | 1. System shows popup success “ Đăng ký thành công “. | Pass | 18/11/18 |

Table 3 - Web Application Test Case <Register Account>

#### <Guest> Login

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | Test case procedure | Expected output | Result | Test Date |
| AL\_1 | Test login | 1. User enters “01283383166” into “Số điện thoại” required field.  2. User enters “19051996” into “Mật khẩu” required field.  3. User clicks “Đăng nhập” button. | 1. System reloads page and, shows username “ Huy Hoang “ and Logout Button on top of the page. | Pass | 18/11/18 |
| AL\_2 | Test login with a blank text box | 1. User inputs a blank in field “Số điện thoại”.  2. User clicks “Đăng nhập” button. | 1. System shows error message “Vui lòng kiểm tra lại thông tin đăng nhập!”. | Pass | 18/11/18 |
| AL\_3 | Test login with a blank text box | 1. User inputs a blank in field “Mật khẩu”.  2. User clicks “Đăng nhập” button. | 1. System shows error message “Vui lòng kiểm tra lại thông tin đăng nhập!”. | Pass | 18/11/18 |

Table 4 - Web Application Test Case <Login>

#### <Auctioneer> Submit Auction

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | Test case procedure | Expected output | Result | Test Date |
| AL\_1 | Submit auction without login | 1. User chooses “ Đăng đấu giá “ in menu bar. | 1. System shows login form. | Pass | 18/11/18 |
| AL\_2 | Submit auction with validated input | 1. User chooses an image “ s1200 “ on the computer .  2. User chooses “5 ” into “Thời lượng ( ngày ) “ dropdown list .  3. User enters “Xe máy Honda ” into “Tên sản phẩm required field .  4. User enters “20.000.000” into “Tên sản phẩm” required field.  5. User chooses “Ô tô và Xe máy” into “Loại sản phẩm” dropdown list .  6. User chooses “Xe hơi và xe tải” into “Loại sản phẩm” dropdown list .  6. User chooses “Mới” into “Tình trạng” dropdown list .  7 User enters “Khối lượng : 112kg , Dài x Rộng x Cao : 1.842mm x 680mm x1.130 mm …” into “Mô tả chi tiết” required field .  8. User clicks “Đăng đấu giá” button. | 1. System shows success popup “ Đăng sản phẩm thành công “. | Pass | 18/11/18 |
| AL\_3 | Submit auction with a blank text box | 1. User inputs a blank in field “Tên sản phẩm”  2. User clicks “Đăng đấu giá” button. | 1. System shows error message “Bạn thiếu một số thông tin”. | Pass | 18/11/18 |
| AL\_4 | Submit auction with a blank text box | 1. User inputs a blank in field “Tên sản phẩm”.  2. User clicks “Đăng đấu giá” button. | 1. System shows error message “Bạn thiếu một số thông tin”. | Pass | 18/11/18 |
| AL\_5 | Submit auction with a blank text box | 1. User inputs a blank in field “ Mô tả sản phẩm”.  2. User clicks “Đăng đấu giá” button. | 1. System shows error message “Bạn thiếu một số thông tin”. | Pass | 18/11/18 |
| AL\_6 | Submit auction without an image | 1. User does not choose an image.  2. User clicks “Đăng đấu giá” button. | 1. System shows error message “Bạn phải chọn tối thiểu một ảnh”. | Pass | 15/07/18 |

Table 5 - Web Application Test Case <Submit Auction>

#### <Bidder> Place a bid

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | Test case procedure | Expected output | Result | Test Date |
| AL\_1 | Place a bidwithout login | 1. User clicks on the “ Đấu giá “ button.  2. User clicks on the “ Đồng ý “ button. | 1. System shows popup login. | Pass | 18/11/18 |
| AL\_2 | The first person who place a bid. The username is “ huy.duong” | 1. User enters “4.300.000” into “Đấu giá ” required field of auction has name “*Notebook Lenovo ThinkPad W540 15.6" FHD 2.90GHz CORE i7 4600M 16GB 240GB SSD*”.  2. User clicks on the “ Đấu giá “ button  3. User clicks on the “ Đồng ý “ button. | 1. System shows popup succes “ Giá thầu tối đa được đặt thành công “.  2. Bid will be shown in table of bidding history.  3. huy.duong will be shown as the highest bidder.  4.System sends notification “Xin chào huy.duong, bạn đã đặt giá thầu thành công tại phiên đấu giá *Notebook Lenovo ThinkPad W540 15.6" FHD 2.90GHz CORE i7 4600M 16GB 240GB SSD*”. | Pass | 18/11/18 |
| AL\_3 | User “ huyhoang106 “ place a bid lower than “huy.duong” | 1. User enters “4.100.000” into “Đấu giá ” required field of auction has name “*Notebook Lenovo ThinkPad W540 15.6" FHD 2.90GHz CORE i7 4600M 16GB 240GB SSD*”.  2. User clicks on the “ Đấu giá “ button.  3. User clicks on the “ Đồng ý “ button. | 1. System shows popup “Giá thầu tối đa được đặt thành công“.  2.huyhoang106’s bid will be shown below to huy.duong’s one in table of bidding history.  3. huy.duong will be shown as the highest bidder.  4. System sends notification “Xin chào, huyhoang106, đã có người trả giá cao hơn giá thầu tối đa của bạn tại phiên đấu giá *Notebook Lenovo ThinkPad W540 15.6" FHD 2.90GHz CORE i7 4600M 16GB 240GB SSD*”. | Pass | 18/11/18 |
| AL\_4 | User “ huyhoang106 “ place a bid equal to user “huy.duong” | 1. User enters “4.300.000” into “Đấu giá ” required field of auction has name “*Notebook Lenovo ThinkPad W540 15.6" FHD 2.90GHz CORE i7 4600M 16GB 240GB SSD*”.  2. User clicks on the “ Đấu giá “ button.  3. User clicks on the “ Đồng ý “ button. | 1. System shows popup “Giá thầu tối đa được đặt thành công “.  2.huyhoang106’s bid will be shown above to huy.duong’s one in table of bidding history.  3. huy.duong will be shown as the highest bidder.  3.System sends notification “Hi, huyhoang106, đã có người trả giá cao hơn giá thầu tối đa của bạn tại phiên đấu giá *Notebook Lenovo ThinkPad W540 15.6" FHD 2.90GHz CORE i7 4600M 16GB 240GB SSD*”. | Pass | 18/11/18 |
| AL\_5 | User “ huyhoang106 “ place a bid higher than user “huy.duong” | 1. User enters “4.400.000” into “Đấu giá ” required field of auction has name “*Notebook Lenovo ThinkPad W540 15.6" FHD 2.90GHz CORE i7 4600M 16GB 240GB SSD*”.  2. User clicks on the “ Đấu giá “ button.  3. User clicks on the “ Đồng ý “ button. | 1. System shows popup “Giá thầu tối đa được đặt thành công “.  2. huyhoang106’s bid will be shown above to huy.duong’s one in table of bidding history.  3. huyhoang106 will be shown as the highest bidder.  3. System sends notification “Xin chào huyhoang106, bạn đã đặt giá thầu tối đa thành công tại phiên đấu giá *Notebook Lenovo ThinkPad W540 15.6" FHD 2.90GHz CORE i7 4600M 16GB 240GB SSD*” | Pass | 18/11/18 |
| AL\_6 | User “ huyhoang106 “ place a bid higher than himself | 1. User enters “4.500.000” into “Đấu giá ” required field of auction has name “*Notebook Lenovo ThinkPad W540 15.6" FHD 2.90GHz CORE i7 4600M 16GB 240GB SSD*”.  2. User clicks on the “ Đấu giá “ button.  3. User clicks on the “ Đồng ý “ button. | 1. System shows popup “Giá thầu tối đa được đặt thành công “.  2. huyhoang106’s bid will be shown above to huy.duong’s one in table of bidding history.  3. huyhoang106 will be shown as the highest bidder.  3. System sends notification “Xin chào huyhoang106, bạn đã đặt giá thầu tối đa thành công tại phiên đấu giá *Notebook Lenovo ThinkPad W540 15.6" FHD 2.90GHz CORE i7 4600M 16GB 240GB SSD*” | Pass | 18/11/18 |

Table 6 - Web Application Test Case <Place a Bid>

#### <Bidder> View Bidding History

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | Test case procedure | Expected output | Result | Test Date |
| AL\_1 | View history without login | 1. User chooses “ Lịch sử đấu giá “ into menu bar. | 1. System does not show anything. | Pass | 18/11/18 |
| AL\_2 | The user has not taken participated in any auctions yet | 1. User chooses “ Lịch sử đấu giá “ into menu bar. | 1. System does not show anything. | Pass | 18/11/18 |
| AL\_3 | The user placed a bid already | 1. User chooses auction has name “*Notebook Lenovo ThinkPad W540 15.6" FHD 2.90GHz CORE i7 4600M 16GB 240GB SSD*”.  2. User enters “4.700.000” into “Đấu giá” .  3. User clicks on the “ Đấu giá “ button.  4. User clicks on the “ Đồng ý “ button.  5. User chooses “ Lịch sử đấu giá “ . | 1. System shows details of auction has name “Notebook Lenovo ThinkPad W540 15.6" FHD 2.90GHz CORE i7 4600M 16GB 240GB SSD” in “ Đấu giá hiện tại “. | Pass | 18/11/18 |

Table 7 - Web Application Test Case <View Bidding Auctions>

#### <Auctioneer> View Selling History

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | Test case procedure | Expected output | Result | Test Date |
| AL\_1 | View history without login | 1. User chooses “ Lịch sử đấu giá “ into menu bar. | 1. System does not show anything. | Pass | 18/11/18 |
| AL\_2 | The seller has not posted any auctions yet | 1. User chooses “ Lịch sử người bán “ into menu bar. | 1. System does not show anything. | Pass | 18/11/18 |
| AL\_3 | The seller submited auction and accepted by admin | 1. User chooses “ Lịch sử người bán “ into menu bar. | 1. System displays all the auctions that the person posted. | Pass | 18/11/18 |

Table 8 - Web Application Test Case <View Selling Auctions>

### Mobile Application Test Case

#### <Guest> Register Account

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | Test case procedure | Expected output | Result | Test Date |
| RA\_1 | Test “Tên tài khoản” guest input. | 1. User inputs a blank in required field “Tên tài khoản”.  2. User enters “TheGod\_Nightmare” into “Tên tài khoản” required field. | 1. System shows error message “Hãy nhập tất cả các thông tin!”.  2. System shows “Đăng ký thành công”. | Pass | 18/11/2018 |
| RA\_2 | Test “Số điện thoại” guest input. | 1. User inputs a blank in field “Số điện thoại”.  2. User enters “Số điện thoại” already exists.  3. User enters the “Số điện thoại” outside the allowed range from 10 to 12 number.  4. Verify “Số điện thoại” with Account Kit.  5. User enters “01692106611” into “Số điện thoại” required field. | 1. System shows error message “Hãy nhập tất cả các thông tin!”.  2. System shows error message “Số điện thoại đã được sử dụng!”.  3. System shows error message “Số điện thoại không hợp lệ!”.  4.  \*System shows message “Enter the code that was sent to +841692106611”  \*User input right code show message “Verify successfully”.  5. System shows “Đăng ký thành công”. | Pass | 18/11/2018 |
| RA\_3 | Test “Email” guest input. | 1. User inputs a blank in field “Email”.  2. User inputs “Email” already exists.  3. User inputs “Email” wrong syntax.  4. User enters “[kienht@gmail.com](mailto:kienht@gmail.com)” into “Email” required field. | 1. System shows error message “Hãy nhập tất cả các thông tin!”.  2. System shows error message “Email đã được sử dụng!”.  3. System shows error message “Email không hợp lệ!”.  4. System shows “Đăng ký thành công”. | Pass | 18/11/2018 |
| RA\_4 | Test “Tên đầy đủ” guest input. | 1. User inputs a blank in field “Tên đầy đủ”.  2. User enters "Tên đầy đủ" more than 250 characters.  3. User enters “Ha Trung Kien” into “Tên đầy đủ” required field. | 1. System shows error message “Hãy nhập tất cả các thông tin!”.  2. System shows error message “Email không hợp lệ!”.  3. System shows “Đăng ký thành công”. | Pass | 18/11/2018 |
| RA\_5 | Test “Chọn ngày sinh” guest choose. | 1. User does not choose “Chọn ngày sinh”.  2. User choose “01-06-2018” from Calendar to “Chọn ngày sinh”. | 1. System shows error message “Hãy nhập tất cả các thông tin!”.  2. System shows “Đăng ký thành công”. | Pass | 18/11/2018 |
| RA\_6 | Test “Mật khẩu” guest input. | 1. User inputs a blank in field “Password”.  2. User input password is too short.  3. User input Password not match with Re-Password. | 1. System shows error message “Hãy nhập tất cả các thông tin!”  2. System shows “Mật khẩu quá ngắn, vui lòng nhập từ 6 kí tự trở lên!”.  3. System shows “Mật khẩu và Nhập lại mật khẩu không trùng khớp!”. | Pass | 18/11/2018 |

Table 9 - Mobile Application Test Case <Register Account>

#### <Auctioneer> Submit Auction

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | Test case procedure | Expected output | Result | Test Date |
| CA\_1 | Test “Đăng ảnh/Chụp ảnh” auctioneer select/take a photo. | 1. User select photo size is too large into “Đăng ảnh/Chụp ảnh” required field.  2. User select more than 12 photos are allowed.  3. User not select photo of items.  4. User select photo of items. | 1. System shows “Kích thước ảnh quá lớn, hãy chọn ảnh khác!”.  2. System shows “Chỉ được chọn tối đa 12 ảnh cho sản phẩm!”.  3. System shows “Vui lòng cung cấp hình ảnh cho sản phẩm!”.  4. System shows “Đăng đấu giá thành công”. | Pass | 18/11/2018 |
| CA\_2 | Test “Tên sản phẩm” auctioneer input. | 1. User inputs a blank in required field “Tên sản phẩm”.  2. User enters “Sách kĩ năng” into “Tên sản phẩm” required field. | 1. System shows error message “Hãy nhập tất cả các thông tin!”.  2. System shows “Đăng đấu giá thành công”. | Pass | 18/11/2018 |
| CA\_3 | Test “Giá khởi điểm” auctioneer input. | 1. User inputs a blank in required field “Giá khởi điểm”.  2. User inputs “Giá khởi điểm” less than 1000đ.  3. User inputs “Giá khởi điểm” not divisible for 500đ.  4. “Giá khởi điểm” display not format “0,000đ”.  5. User enters “50,000đ” into “Giá khởi điểm” required field. | 1. System shows error message “Hãy nhập tất cả các thông tin!”.  2. System shows “Giá khởi điểm phải lớn hơn 1000đ” .  3. System shows “Giá của bạn phải chia hết cho 500đ”.  4. System shows “Giá khởi điểm” right format.  5. System shows “Đăng đấu giá thành công”. | Pass | 18/11/2018 |
| CA\_4 | Test “Thời lượng” auctioneer select. | 1. User not select “Thời lượng” of auction.  2. User select “5 ngày” of “Thời lượng”. | 1. System shows error message “Hãy nhập tất cả các thông tin!”.  2. System shows “Đăng đấu giá thành công”. | Pass | 18/11/2018 |
| CA\_5 | Test “Tình trạng” auctioneer select. | 1. User not select “Tình trạng” of auction.  2. User select “Mới” of “Tình trạng”. | 1. System shows error message “Hãy nhập tất cả các thông tin!”  2. System shows “Đăng đấu giá thành công”. | Pass | 18/11/2018 |
| CA\_6 | Test “Mô tả sản phẩm” auctioneer input | 1. User inputs a blank in required field “Mô tả sản phẩm”.  2. User enters “Sách kĩ năng về giáo dục con cái” into “Mô tả sản phẩm” required field. | 1. System shows error message “Hãy nhập tất cả các thông tin!”.  2. System shows “Đăng đấu giá thành công”. | Pass | 18/11/2018 |

Table 10 - Mobile Application Test Case <Submit Auction>

#### <Bidder> Place a Bid

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | Test case procedure | Expected output | Result | Test Date |
| PB\_1 | Test “Đấu giá” bidder input | 1. User inputs price on their own products.  2. User inputs “Giá khởi điểm” not divisible for 500đ”.  3. User inputs price is too high (virtual price).  4. User inputs price is lower than minimum bid.  5. User inputs price is greater than minimum bid. | 1. System shows “Bạn không thể đấu giá trên sản phẩm của mình”.  2. System shows “Giá của bạn phải chia hết cho 500đ”.  3. System shows “Giá của bạn nhập quá cao” .    4. System shows “Giá đấu của bạn phải lớn hơn giá tối thiểu”.  5. System shows “Đăng đấu giá thành công”. | Pass | 18/11/2018 |
| PB\_2 | The first person who place a bid. The username is “core\_item” | 1. User enters “500.000” into “Nhập giá” required field of auction has name “Sách kĩ năng”.  2. User clicks on the “Đấu giá ngay” button.  3. User clicks on the “Đồng ý” button. | 1. System shows popup “Đấu giá thành công. Ấn Ok để tiếp tục”.  2. Bid will be shown in table of bidding history.  3. core\_item will be shown as the highest bidder.  4. System sends notification “Xin chào core\_item, bạn đã đặt giá thầu thành công tại phiên đấu giá Sách kĩ năng”. | Pass | 18/11/2018 |
| PB\_3 | User “o0bebubean0o” place a bid lower than “core\_item” | 1. User enters “450.000” into “Nhập giá” required field of auction has name “*Sách kĩ năng*”.  2. User clicks on the “Đấu giá ngay” button.  3. User clicks on the “Đồng ý” button . | 1. System shows popup “Giá phải bằng hoặc lớn hơn giá tối thiểu. Ấn Ok để tiếp tục”. | Pass | 18/11/2018 |
| PB\_4 | User “o0bebubean0o” place a bid equal to user “core\_item” | User enters “500.000” into “Nhập giá” required field of auction has name “*Sách kĩ năng*”.  2. User clicks on the “Đấu giá ngay” button.  3. User clicks on the “Đồng ý” button . | 1. System shows popup “Giá phải bằng hoặc lớn hơn giá tối thiểu. Ấn Ok để tiếp tục”. | Pass | 18/11/2018 |
| PB\_5 | User “o0bebubean0o” place a bid higher than user “core\_item” | User enters “600.000” into “Nhập giá” required field of auction has name “*Sách kĩ năng*”.  2. User clicks on the “Đấu giá ngay” button.  3. User clicks on the “Đồng ý” button. | 1. System shows popup “Đấu giá thành công. Ấn Ok để tiếp tục”.  2. Bid will be shown in table of bidding history.  3. o0bebubean0o will be shown as the highest bidder.  4. System sends notification “Xin chào o0bebubean0o, bạn đã đặt giá thầu tối đa thành công tại phiên đấu giá *Sách kĩ năng*”. | Pass | 18/11/2018 |
| PB\_6 | User “o0bebubean0o” place a bid higher than himself | User enters “700.000” into “Nhập giá” required field of auction has name “*Sách kĩ năng*”.  2. User clicks on the “Đấu giá ngay” button.  3. User clicks on the “Đồng ý” button. | 1. System shows popup “Đấu giá thành công. Ấn Ok để tiếp tục”.  2. o0bebubean0o’s bid will be shown above to core\_item’s one in table of bidding history.  3. o0bebubean0o will be shown as the highest bidder  4. System sends notification “Xin chào o0bebubean0o, bạn đã đặt giá thầu tối đa thành công tại phiên đấu giá *Sách kĩ năng”.* | Pass | 18/11/2018 |

Table 11 - Mobile Application Test Case <Place a Bid >

#### <Auctioneer> View Selling History

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | Test case procedure | Expected output | Result | Test Date |
| VSH\_1 | History about auctions whose items are being sold - “Đang bán” | 1. Example: “TheGod\_Nightmare” account creates “Sách kĩ năng” auction successfully and it’s accepted by admin. | 1. Click tab “Đang bán”  then “Sách kĩ năng” will be displayed here. | Pass | 18/11/2018 |
| VSH\_2 | History about auctions ended– “Kết thúc” | 1. Example: “Sách kĩ năng” auction out of the time. | 1. Click tab “Kết thúc”  then “Sách kĩ năng” will be displayed here. | Pass | 18/11/2018 |
| VSH\_3 | History auctions have been rejected – “Bị từ chối” | 1. Example: “Sách kĩ năng” auction has been rejected by admin. | 1. Click tab “Bị từ chối”  then “Sách kĩ năng” will be displayed here. | Pass | 18/11/2018 |

Table 12 - Mobile Application Test Case <View Selling History >

#### <Bidder> View Bidding History

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | Test case procedure | Expected output | Result | Test Date |
| VBH\_1 | History about the auction user is bidding – “Đang đấu giá” | 1. Example: “TheShy” account places bid “Sách kĩ năng” auction successfully. | 1. Click tab “Đang đấu giá” then “Sách kĩ năng” will be displayed there. | Pass | 18/11/2018 |
| VBH\_2 | History about the auction that user won - “Đấu giá thắng” | 1. Example: “TheShy” account becomes winner with highest bid’s price of ended auction. | 1. Click tab “Đấu giá thắng” then “Sách kĩ năng” will be displayed there. | Pass | 18/11/2018 |
| VBH\_3 | History about the auction the user lost – “Đấu giá thua” | 1. Example: “TheShy” account becomes loser due to lower bid’s price. | 1. Click tab “Đấu giá thua” then “Sách kĩ năng” will be displayed there. | Pass | 18/11/2018 |

Table 13 - Mobile Application Test Case <View Bidding History >

### Admin Web Application Test Case

#### <Admin> Accept Pending Auction

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | Test case procedure | Expected output | Result | Test Date |
| AA\_1 | Admin accepts pending auction | 1. Clicks “Chấp nhận” button on row of auction name whose name is “Sách kĩ năng”. | 1. Click “Phiên đấu giá đang hoạt động” tab and the auction “Sách kĩ năng” will be displayed on there, | Pass | 19/11/2018 |

Table 14 ­- Admin Web Application <Accept Pending Auction>

#### <Admin> Reject Pending Auction

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | Test case procedure | Expected output | Result | Test Date |
| RA\_1 | Admin rejects auction | 1. Clicks “Từ chối” button on row of auction name whose name is “Sách kĩ năng”.  2. Type reason on modal (optional).  3. Click OK button. | 1. Click “Phiên đấu giá bị từ chối” tab and the auction “Sách kĩ năng” will be displayed on there, | Pass | 19/11/2018 |

Table 15 - Admin Web Application <Reject Pending Auction>