POLITECNICO DI MILANO

DEPARTMENT OF ELECTRONICS, INFORMATION AND BIOENGINEERING

SOFTWARE ENGINEERING II

Professor Elisabetta Di Nitto

"GuessBid" Project

Validation and Acceptance Testing

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Table of contents

1. Introduction

1.1 Purpose

The purpose of this document is to explain the testing process and the testing results of GuessBid project developed by team members of one of the groups.

1.2 Development Team

- Egzon Ademi
- Ervin Kamberoski
- Pavel Gichevski

1.3 Scope

This validation and acceptance and testing document will be used to test the development of the GuessBid Inverse Auction project based on the requirements and guidelines document given by the Professor.

The testing will include all documents provided by the group member as listed in the reference section.

1.4 References

- RAS Document
- Design Document
- Testing Document
- User Manual
- Installation Manual
- Source Code

1.5 Test objectives

The present testing is for validating and verification the following goals identified by the development group on the project specifications:

- To create an interactive web based application for Inverse auction system
- To allow users/Sellers create account, list products to be sold and post auction for each product
- To allow users/buyers create account, select product and participate on auctions by entering lowest bid value

1.6 Test Approach

We have used the analysis approach and the testing approach achieving the complete entire view of the development process. Due to shortage of time the testing results included in this document is limited.

2. Development Validation

2.1 Requirements and Analysis Specification Document

The RASD is well written and organized; though, we have found some points to mention as follows:

- The document doesn't include a state chart diagram
- In the entire document when we look at what has been mentioned as "user" is a little bit ambiguous, we believe that there should be some way to differentiate buyers and sellers such as using user roles. Because a user may not need to bid on the product he/she provides for auction.
- Administrator, a person who manages the system, control behavior, repairing eventual problems that may arise is pointed out in the RASD but not implemented in the development phase.
- It is a good thing that they have included chatting between users in the application.
- The use case diagram regarding bidding is not included briefly according to the standard given by the professor.
- The sequence diagrams include most of the user-system interaction and the label and description of sequences are brief and well organized.
- The class diagram is not well depicted and the relationships are not mentioned. For instance descriptions of links (basic relationships among objects) are not included.

2.2 Design Document

The design document is well written and organized. We have listed some observations below which are worth mentioning:

- Entities and their attributes are well listed and described but it would be better if they have drawn some diagrams to illustrate what is already listed on a table.
- There are some minor errors in the translated logical schema. Some attributes are mentioned but not implemented.
- Methods for each class are clearly listed and well described under Objects Description.
- We are unable to compare the implemented auction management, and notification system aspects with the design document due to the error which is mentioned in different part of this testing document particularly under the test cases.

2.3 Installation Manual

The installation manual includes all the necessary guidelines of configuration including:

- Database Setting
- Server Setting
- Deployment

2.4 Users' Manual

The users' manual includes all necessary information for users starting from how to register and login until the user decides to logout but we were not able to see most of the results due to the error which is mentioned under development and verification section.

3. Development Verification

Test Cases

3.1 Registration Page Valid Inputs

Description	Visiting for first time, registering page
Objective	To test if the registration page works
Event Sequence	1.Navigate to the homepage http://localhost:8080/guessbid/register.xhtml 2. Select "register". 3.Fill the form (Name, Email, Password, Confirm Password) 4. Click "Register"
Test Result	Successfully registered, and redirected to the login page
Observation	Registration works as expected.

3.2 Registration Page Invalid Inputs

Description	Visiting for first time, registering page
Objective	To test if the welcome page and registering works
Event	1.Navigate to the homepage

Sequence	http://localhost:8080/guessbid/register.xhtml 2.Select "register". 3.Fill the form (Name, Email, Password, Confirm Password) with invalid input For this case : aa#gmail.com 4. Click "Register"
Test Result	Successfully registered, and redirected to the login page
Observation	The registration has no form validation... in this case it has accepted aa#gmail.com

3.3 Login Page with Valid Input

Description	Visiting login page
Objective	To test if the login page works
Event Sequence	1. Open login page http://localhost:8080/guessbid/user/index.xhtml 3. Enter Email and Password 4. Click "Login"
Test Result	Successfully logged in
Observation	Auction Page is displayed as a home page

3.4 Login Page with Invalid Input

Description	Visiting login page
Objective	To test if the login page works
Event Sequence	1. Open login page http://localhost:8080/guessbid/user/index.xhtml 3. Enter non existing Email and Password 4. Click "Login"
Test Result	"Login failed. Try again message" displayed
Observation	Successfully blocked invalid login trial

3.5 Create Auction with Valid Input

Description	Create a new auction
Objective	To test if auction creation works correctly
Event Sequence	1.Go to the menu bar and select Auctions --> My auctions 2.Click Create New Auction Button
Test Result	Auction creation has failed

Observation	"Error occurred", message displayed with an exception "Setter not found for property class"

3.6 History of bids

Description	Check History of bids
Objective	To test if History of bids is populated
Event Sequence	1.Goto the menu bar and click Auctions 2.Select History of bids
Test Result	The page has successfully displayed
Observation	There are no records found since create auction does not work

3.7 Notification

Description	Checking notifications
Objective	To test if notifications are working
Event Sequence	1.Goto the menu bar and click Notifications
Test Result	The page has successfully displayed

Observation	The page has successfully displayed, there is no record since we are unable to create auctions

3.8 Logout

Description	Checking Logout
Objective	To test if the system logs out successfully
Event Sequence	1.Goto the menu bar and click Settings 2. Click Logout
Test Result	The system has successfully logged out
Observation	The login form is displayed

4. Summary

We have been evaluating and testing this project based on what we have done during those phases of analysis, design and development. In that case, the group members of this project have given enough effort and consideration. The RASD and the Design Documents are well organized and according to the standard. Regarding the Development verification, we can't say much because we were unable to display one of the most important pages that we also have been contacting and discussing with the group members. Overall this is what we could say about our testing results as we have been limited by the short due date and tight schedules.

5. Hours Spent for all Project Phases

Date:	April 18 – June 22, 2015
Team Members:	Nery, Abel Sebsebe Beshir, Addisalem Wondie
Regular Meeting Days:	→April 18-27 6 days a week Total=7 days →April 28- May 6 2 days a week Total=4 days →May 7-15 5 days a week (Monday-Friday) Total=7 days →May 16-June 1 2 days a week Total=4 days →June 2-22 5 days a week (Monday-Friday) Total=15 days →June 25-30 6 days
Total Number of Days	37 Days
Regular Meeting Hours:	Every day (19:00-20:30) June 25-30 (18:00-20:00)
Total Regular Meeting Hours:	RASD:10:30 DD:16:30 Implementation: 28:30

	Testing: 12:00 Total= 67:30
Extra Meeting Days:	4 days between May 16 to June 1
Total Extra Meeting Hours:	8
Meeting Room:	Casa Dello Studente Study Rooms
Total Meeting Hours:	75:30
Objective	• Discuss about the system (brainstorming) • Requirement analysis & development process • Design Process • Implementation • Testing