### Software Requirements Specification

**Version 2.0  
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**ONLINE AUCTION**

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## 1.0 Introduction

#### 1.1 Purpose of this Document

The purpose of this SRS document is providing a detailed overview of our software product, its parameters and goals. This document describes the project's target audience and its user interface, hardware and software requirements. It defines how our client, team and audience see the product and its functionality.

#### 1.2 Scope of the Development Project

Our project goals is to create an online auction system that allows its users to sell as well as bid for items. Our product is a computerized online auction site that simulates the users to be a pert of auction without actually going but just by sitting and choosing among the vide range of things available for sale.also,the feature of selling your own items and conducting an auction for it saves both time and money. We use the Macromedia Flash environment to develop the product, which allows the product to easily run from a web browser or by itself on a variety of computer systems. Flash also provides simple methods of incorporating sound, graphics and animation into the product which means that it will user friendly and user-interactive.

#### 1.3 Definitions, Acronyms and Abbreviations

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| WWW | World Wide Web |
| HTML | stands for hypertext mark-up language; a standard for presenting and transporting mostly text-based information across the Internet |
| Flash | A bandwidth-friendly and browser-independent vector-graphic animation technology. As long as different browsers are equipped with the necessary plug-ins, Flash animations will look the same.  With Flash, users can draw their own animations or import other vector-based images. Flash animation can only be created using the Flash animation application from Macromedia Inc.  Flash was known as Future Splash until 1997, when Macromedia Inc. bought the company that developed it. |
| Internet | a global network of computers that can share all kinds of digital information; also known as the World Wide Web |
| Web-based application | Software program that is executed using the World Wide Web. |
| Web Server | a special type of computer system that stores and sends web pages and other information to a web browser |

#### 1.4 References

        Dr. Vicki Almstrum Professor of Computer Science University of Texas at Austin

        Matt Molineaux – Teaching Assistant for Software Engineering

        Amish Ghandi – Teaching Assistant for Software Engineering

        Dr. Maggie Myers  - Dana Center Client

        TEKS Mathematics Toolkit website:   [www.tenet.edu/teks/math](http://www.tenet.edu/teks/math)

        The Texas SSI website: [www.utdanacenter.org/ssi](http://www.utdanacenter.org/ssi)

        The Charles A. Dana Centre website: [www.utdanacenter.org](http://www.utdanacenter.org/)

#### 1.5 Overview of Document

The remaining sections of this document provide a general description, including characteristics of the users of this system and the functional  and data requirements of the system.  General description of the project is discussed in section 2 of this document.  Section 2 gives the functional requirements, data requirements and constraints and assumptions made while designing the auction system.  It also gives the user viewpoint of product use.  Section 3 gives the specific requirements of the product.  Section 3.0 also discusses the external interface requirements and gives detailed description of functional requirements.

## 2.0 General Description

#### 2.1 User Personas and Characteristics

The Objective of this project is to create an online auction system for the O-lx to save both money and time of users and at the same time be a part of the auction. This project will simulate an auction on various items as specified in the permissible category of items. The resulting work product will be a fun, easy tool that will help users to sell as well as bid for items of their interest and avail them at a cheaper price.

*         MR. Bart is a 55 year old man who recently decided to move to Scotland to his son’s place after the sudden death of his wife .Since he has to shift permanently and is short of time too, he seeks for an easy way out to sell his apartment and furniture. He registers for an online auction and within a few days he gets a buyer and fair amount of deal for his property. He’s satisfied and encourages others to go for it.
*          Miss Skinner wants to buy a guitar but does not have sufficient funds. So she decides to buy a second hand guitar. The online auction system comes to her rescue. Here she finds a wide variety of guitars with varying qualities and prices. She makes a good choice considering her requirements and thus has become an old and authenticated user of this software since then.

#### 2.2 Product Perspective

*          The system can from within a web-browser. It must be flexible enough to run easily with a variety of different operating systems, computer architectures and be simple to browse and use.
*          The product is loosely integrated with a larger collection of goods and services maintained by O-lx.
*          The product requires the use of a pointing device to interface with the user. Its user interface uses animation, clock and graphics. The product requires a graphics display of at least 800x600 resolutions with thousands of colours which is a common standard. The pictures of goods being sold have high resolution and the time constraint using the computer clock is accurate. The product should not require special or new hardware.

#### 2.3 Overview of Function Requirements

* Registration: New users have to register themselves online with the site and accept its terms & conditions transparent_2x2
* User Login: A user has to login into the site using his correct user ID & password transparent_2x2
* Upload Item for Auction: An authenticated user can upload an item into the site, which is to be put on auction subsequently
* Auction Item: User puts an item already uploaded by him in the site on auction transparent_2x2
* Balance Check: Bidder should have enough bank balance to bid.
* Bid for Item: Any registered & authenticated user of the system could place a bid for an item on auction.
* transparent_2x2Win Auction: After the auction is over, the maximum bidder for the item owns the item post payment.
* Ship Item: Seller of the item ships the item to the auction owner after he (seller) receives the payment.
* Availability: The system should remain up & running before, during and after an auctiontransparent_2x2.
* Remove item: Owner removes an item after uploading it, and doesn't put on auction.
* Remove auctioned item: System automatically removes an item from its inventory after it has been successfully auction.
* Site Support: Customer care for the website should provide 24x7 help over phone

#### 2.4 Overview of Data Requirements

* The data input by the user will include simple mouse clicks on buttons initially to login if the user is authenticated.
* Else sign up option comes where the user has to fill in certain details and accept the terms and conditions.
* Then the user can then select the items to buy, entering his/her bid value. There is storage of data (bid values) up to 24 hours.
* Then after the time duration is complete the max bid value is returned along with the user’s details.
* The shipping address is confirmed by the user.
* In case of selling, the item is received and then its picture and detail is uploaded and its value is estimated.
* Online payment requirements need to be known.

#### 2.5 General Constraints, Assumptions, Dependencies and Guidelines

The following list presents the general constraints, assumptions, dependencies, or guidelines that are imposed upon the implementation of our product.

* + o        The product must be legal.
  + o        Only registered users can login.
  + o        The computers must be equipped with web browsers such as Internet explorer.
  + o        The computers must have Macromedia Flash components installed. A message will indicate whether or not Flash components need to be downloaded.
  + o        The products must be stored in such a way that allows the client easy access to it. Therefore, the product will reside either on the client's server or access will come directly from the S2S server.
  + o        The product must have a user-friendly interface that is simple enough to access.
  + o        Response time for loading the product should take no longer than five minutes. This is not including download time for the Flash component.
  + o        A general knowledge of basic computer skills is required to use the system.
  + Time constraint should be taken care off.
  + Also the authentication of users should be efficient.

#### 2.6 User View of Product Use

* After clicking on our “online auction” link, the client will be prompted to enter login id and password.  On the left of the screen will be a tab that will ask to sign up if the client has no account. On signing up details of user are verified and a terms and conditions legal document is prompted for user to know the details.
* In the middle of the system will be a graphical figure prompting the user to whether bid or sell an item. On the right of the screen will be a box window that shows all the permissible items that can be sold.  Underneath the box will be three buttons, shipping requirements, online payment, and contact details.
* To start the auction the user will first have to register to send the item to O-lx.  
  The details of the item are also entered by the user and the desired value the user wants for the item. Later on, this value is compared with the estimated value of O-lx.
* In case of bidding, the category of items is selected from the right window panel and all the products in that category are shown.  
  The user will then select a item and bid its value in context with the last bid value being shown.
* A prompt message regarding the announcement of result after 24 hrs is shown.

## 3.0 Specific Requirements.

#### 3.1 External Interface Requirements

*          The product generally requires a mouse for input. Other pointing and input devices are allowable, provided they provide similar functions to a mouse and keyboard, namely the ability to move a cursor onscreen to select buttons and the ability to type names.
*          The system uses graphics, time and animation. The hardware and operating system an 800x600 screen resolution with thousands of colors.Time is required to maintain a record and track the bid values of a particular item up to 24 hours.
*          A graphical web browser with the Flash plug-in is required to download the product if running from a web server.

#### 3.2 Detailed Description of Functional Requirements

#### 3.2.1 Template for describing functional requirements.

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| **Purpose** | Online auction system is available to sell or bid for items. |
| **Inputs** | An authenticated user, the payment options, shipping address.  In case of selling, the item’s details, it’s picture and also the address of seller from where the item has to be collected. |
| **Processing** | For a time duration of 24 hours, bidding of an item continues. Every item’s bid value keeps on changing with the number of users bidding for that respective item and the maximum bid value of all is displayed beneath the item’s picture.  In case of selling, consent of user to put the item in t bid items is confirmed. |
| **Outputs** | After 24 hours the maximum bidder is informed about its confirmed ownership of the item. However if the bidder is not interested later on the ownership can get transferred to the second highest bidder. In case of acceptance by the winner, the payment options and shipping address is noted. In case of selling an item, once the user’s item has been sold, he/she is notified and the share is given to the seller then. |

#### 3.2.2 User Help Page.

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| **Purpose** | This menu provides information for the user. User can either sell or buy items. |
| **Inputs** | A user needs to login to access the site. |
| **Processing** | The menu responds by authenticating the user and checking for a valid e-mail id. |
| **Outputs** | Output consists of a screen of information about instructions for selling and buying and displacing the terms and conditions. |

 **3.2.3 Instruction Page**

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| **Purpose** | The user is shown a login tab to enter the login id if the user is authenticated one. Then directed to the main page where the items that are available for auction are displayed. |
| **Inputs** | A user can click on bid button and type its bid amount. In case of selling, click on the item to upload for bidding button. |
| **Processing** | The product responds by displaying that the result will be announced after the complete 24 hours duration is complete. In case of selling, the user is displayed that the good will be collected soon from the provided shipping address and also then it is verified that will the amount proposed by seller is in favour with the the o-lx’s proposed amount. |
| **Outputs** | Display the sold out tag for the items which have been sold out. and also display the winner’s name below the item’s image. |

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#### 3.2.4 Intro Page

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| **Purpose** | This menu is the opening page for the project.  It will serve as the guide for the user to understand the functionalities of the bidding site. |
| **Inputs** | This page automatically loads after the product introduction page. |
| **Processing** | The product responds by displaying a large friendly graphic and radio buttons to navigate on the site. |
| **Outputs** | Display the page displaying all the items that are on sale along with the last maximum bid. Display the list of items which can be sold. |

**3.2.5 Product Introduction Page**

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| **Purpose** | This menu is the opening page for the product.  On Clicking on the item it shows its details, its usage, its image, the guarantee and warranty and maximum bid value. |
| **Inputs** | This page automatically loads after selecting the item to buy. |
| **Processing** | The product responds by displaying the group names and the product name. |
| **Outputs** | Immediate load of Intro page. |

#### 3.2.7 Final output image

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| **Purpose** | Displays final results of the winner with the maximum bid. |
| **Inputs** | User’s name and id is displayed. |
| **Processing** | This page determines the winner based on the highest of the bid value .  In case of selling the user’s item is verified. |
| **Outputs** | A confirmation to seller and bidder is shown regarding the completion of their respective tasks. |

#### 3.3 Performance Requirements

The product can be web-based and run from a web server. It is a 24x7 working system.

#### 3.4 Quality Attributes

The product is target towards buying and selling of items. the image items should be loaded quickly. And the shipped items should be available as soon as possible.

#### 3.5 Other Requirements

None at this time.

## Change History

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| --- | --- |
| 20022002 | Version 1.0 - Initial Release. |
| 20020426 | Version 1.2- Change in Personnel, Functional Components to include product intro page and intro page. |
| 20020507 | Version 2.0 - change in user view of product. |
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