

Online Auction System

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Plagiarism Free Certificate

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Project Report

Online Auction System

Change Record

Author(s)	Version	Date	Notes	Supervisor's Signature
Abdul Mannan Kiran Rehman Zunaira Ghaffar	1.0	11-10-2020	Original Draft	
Abdul Mannan Kiran Rehman Zunaira Ghaffar	2.0	13-10-2020	Changes Based on Feedback from Supervisor	
Abdul Mannan Kiran Rehman Zunaira Ghaffar	3.0	20-10-2020	Changes Based on Feedback From Faculty	
Abdul Mannan Kiran Rehman Zunaira Ghaffar	4.0	25-10-2020	Added Project Plan	
Abdul Mannan Kiran Rehman Zunaira Ghaffar	5.0	07-11-2020	Changes Based on Feedback from Supervisor	

APPROVAL

PROJECT SUPERVISOR

Comments: _____

Name: _____

Date: _____ Signature: _____

PROJECT MANAGER

Comments: _____

Date: _____ Signature: _____

HEAD OF THE DEPARTMENT

Comments: _____

Date: _____ Signature: _____

Dedication

“To Allah who is the most Merciful and gave me more than I deserve I dedicate this effort, the fruit of my Thoughts and studies to my Parents and all the contributors!”

Acknowledgements

I have taken efforts in this project. However, it would not have been possible without the kind support and help of many individuals and an organization. I would like to extend my sincere thanks to all of them.

I offer my humblest thanks from the deepest core of my heart to the Holy Prophet HAZRAT MOHAMMAD (Peace be upon him) who is forever a model of guidance and knowledge for humanity.

I wish to express my deep sense of gratitude to my worthy supervisor, Mr. Abdul Rehman, Lecturer Department of Computer sciences, Superior University for his co-operation, valuable guidance and close supervision, constructive criticism and valuable suggestions. I would like to express my gratitude towards my parents & member of my group for their kind co-operation and encouragement which help me in completion of this project.

I would like to express my special gratitude and thanks to industry persons for giving me such attention and time.

Executive Summary

The online auctioning system is a flexible solution for the lot-based auctions. This report explains the construction of an auctioning website. The system has been designed to be highly-capable of supporting a large number of bidders in an active auction. This online auction system lets you easily browse lots and place bids using a secure server. All cost of mailing the lots of auction have to pay by the buyer. The objective is to develop a user friendly auctioning website where any kind of product can be auctioned and provide value added services to the bidders and the sellers. The products will be authenticated and the site provides a safe environment for online users. This project has two parts- customer interface and admin interface. Customer Panel permits a customer to upload a product for sale and bid on a particular product to buy. This system presents an online display of category wised products they want to sell or bid. There is an admin panel by which an admin can control the whole bidding system. Admin can approve products by the categories and also can control the registered customers. There is fixed delivery policy. After finishing the bidding process there is a notify system to notify the sellers and bidders. This is a fully dynamic system which can be easily operated by the users.

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Chapter 1

Introduction

Chapter 1: Introduction

This chapter includes the detailed description of the project's background and the challenges. It includes all the goals and objectives of the project that are to be attained. It describes the solutions to the problems that were analyzed in the previous projects that are implemented in the market. The objectives of the solution are quite descriptive regarding the user experience of the project. Which and how the existing solutions are working upon attaining these goals and objectives and what is the working structure of our project, including its design, interface and the implementation of all the features and functionalities that are secured to exist in the solution. Those features cover all the user needs and demands that ensures the user will interact with the solution again and again. A report Gantt chart is also included in this chapter that illustrates the total time taken to cover all the steps for the development of this solution project.

1.1. Background

An Auction is Latin word which means augment. Auction is a bid, a process of selling; buying and services offered take place. There are several different types of auctions and certain rules exist for each auction. There are variations for an auction which may include minimum price limit, maximum price limit and time limitations etc. Depending upon the auction method bidder can participate remotely or in person. Remote auction include participating through telephone, mail, and internet. Shopping online has widely grown; online auction system is increasing rapidly. Online auction is becoming more and more popular in electronic commerce and hence it should system must increase its quality and security. The online auction system is a model where we participate in a bid for products and service. This auction is made easier by using online software which can regulate processes involved. There are several different auction methods or types and one of the most popular methods is English auction system. This system has been designed to be highly-scalable and capable of supporting large numbers of bidders in an active auction. Online Auctioning System has several other names such as e-Auctions, electronic auction etc. The requirement for online auction or online bidding can be more accurately specified by the client. It should be healthy and will be a good practice when it is made more transparent as a matter of fact. Online Bidding has become more wide spread in all sorts of industrial usage. It not only includes the product or goods to be sold, it also has services which can be provided. Due to their low cost this expansion made the system to grow. Online bidding has become a

standard method for procurement process. Bidders can be maintained in a single database according to the preference, and they can be monitored. User's data can be maintained in a confidential way for validity and integrity of contractual documentation. Neat reporting reduces paperwork, postage, photocopying and beneficial. Multiple bidders can be communicated with a great ease. This system allows multiple bids by single users. Online bidding is based upon lowest or the highest price which is initiated but not the best value for the product. Although there is a chance to fix the criteria against the fact expected to have desired value by the seller

1.2. Motivations and Challenges

For our project we consider the online auction system as our target. In our country there is not any auction site. So this is an innovative and new idea for Bangladesh. This web based application helps users to choose their desire products and upload products on the site. Users can also easily bid on particular products. This provides a great alternative of auction system for general people.

1.3. Goals and Objectives

General efficiency:

- To increase efficiency and services to the customers through better application of technology in daily operation.
- For increasing the efficiency of the system we used object oriented programming method.
- To be able to stand out from competitors in the ecommerce sites.

Specific objectives:

- To enable customers to see all the products without any authentication.
- To enable the customers to have a visual confirmation that the bid was placed correctly.
- To enable the customers to know product details before bid.
- To ensure correct bid placement through visual interface

1.4. Literature Review/Existing Solutions

Online Bidding has become more wide spread in all sorts of industrial usage. It not only includes the product or goods to be sold, it also has services which can be provided. Due to their low cost this expansion made the system to grow in Pakistan. Many websites are working in the online classified and bidding industry. But there are many perspectives that are leading those websites to a downward position. Online Auction System- Bid On will be a web based application which main language of programming will be PHP. Its main aim is to simplify and improve the efficiency of the bidding process for users, minimize data entry and ensure data accuracy and security bid placement process. Users will also be able to view all product menus in categorized way with their full details. Users will also be able to have a visual confirmation that the order was place correctly.

The Objective is to develop a user-friendly auctioning site where any kind of product can be auctioned and provide value-added services to the bidders and the sellers. The products will be authenticated and the site provides a safe environment for online users:

- Secure registration of all users including a personal profile Administrators would authorize the product to auction, set auction dates and Minimum auction amount for that product.
- Prior to each bid, the user's bank or credit account must be authenticated for available balance required for the bid.
- Complete Search/Site Map of the entire site for easy access. Discussion forums for users to interact with other users to know about the product's value and originality.
- Online Legal Documentation to avoid disputes. Guidance to the users about the same must be available.
- Rare articles may be withheld by owner on the advice of the administrator to be thrown open in special auctions held by the site so as to increase the bid-values.

1.5. Gap Analysis

In this project we our target requirement is the user shall be able to view and click on Login Link. The user shall be able to enter the username and password. The database shall be able to validate username and password. The user shall be able to view and click on the Courses Link. The user shall be able to view the activities associated with each course. In future we will provide an API for video chatting through a buyer and seller can communication with each other for the purpose

of detail specific product. We working on the some other features like product uploading countdown for a while and automatic remove from description on the giving time.

1.6. Proposed Solution

The development of this new system contains the following activities, which try to develop the web-application entire process keeping in the view of database integration approach:

- This system will generate team progress and also provides secure registration and profile management of the users.
- Administrators would authorize the product to auction, set auction dates & minimum auction amount for that product.
- Prior to each bid, the user's bank or credit account must be authenticated for available balance required for the bid.
- Users can select their interested fields for bidding and periodic Mail alerts must be sent in case an article in that field goes on auction.
- Complete Search/Site Map of the entire site for easy access

1.7. Project Plan

No.	Name of task	Duration	Start	Finish
1	Requirement analysis	9 days	29-08-2020	06-08-2020
2	Design	1 month	07-09-2020	07-10-2020
3	Development	2 month	08-08-2020	08-10-2020
4	Testing	7 days	09-10-2020	15-10-2020
5	Implementation	4 days	16-10-2020 –	19-10-2020

Table 1: Project Plane

1.7.1. Work Breakdown Structure

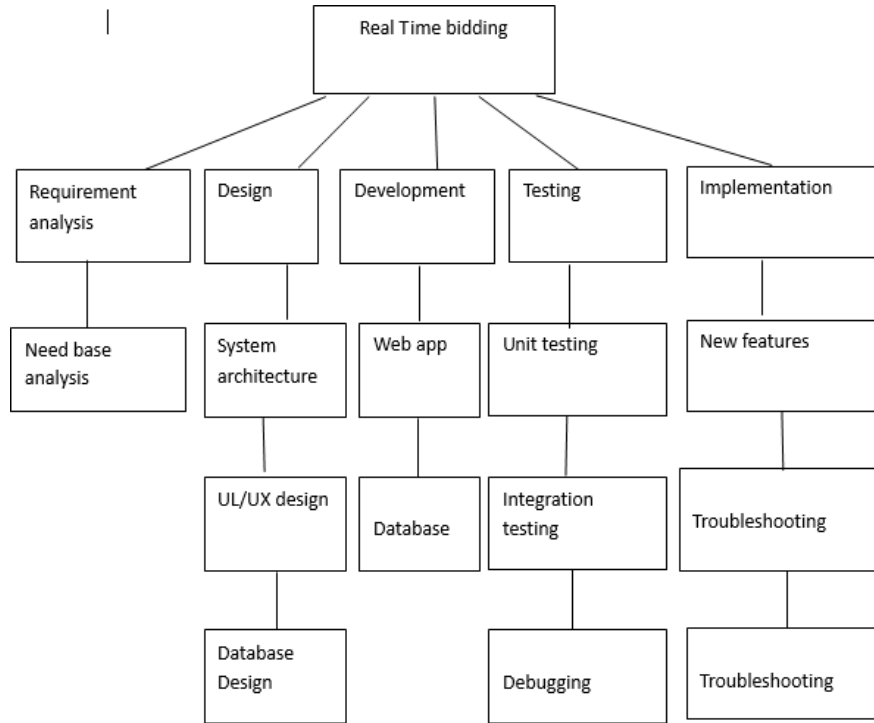


Figure 1: Work Breakdown Structure (WBS)

1.7.2. Roles & Responsibility Matrix

The purpose of roles & responsibility matrix is to identify who will do what.

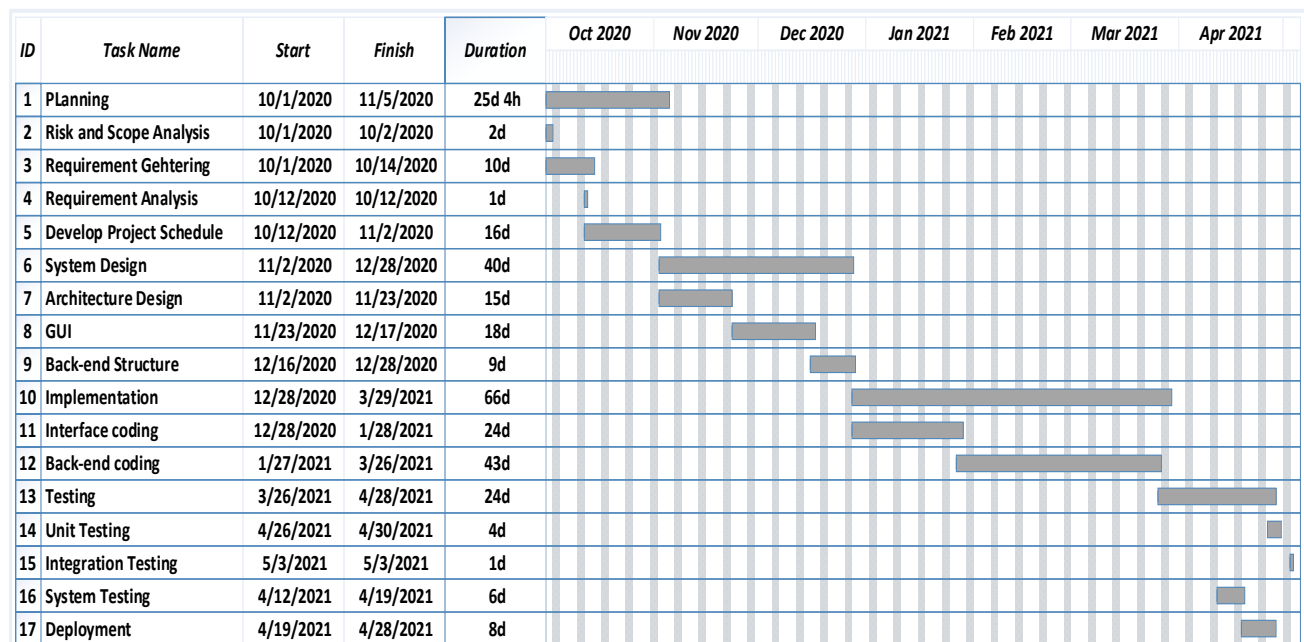
WBS #	WBS Deliverable	Activity #	Activity to Complete the Deliverable	Duration (# of Days)	Responsible Team Member(s) & Role(s)
1	Project Management		12-08-2020	1	Group member
1.1	Work Breakdown Structure	1	12-08-2020 to 14-08-2020	2	Zunaira Ghaffar

1.2	Roles & Responsibility Matrix	2	15-8-2020 to 17-8-2020	3	Group Member
1.3	Change Control System	3	18-8-2020 to 21-8-2020	4	Zunaira Ghaffar
2	Reports / Documentation		21-08-2020 to 22-08-2020	2	Kiran Rehman
2.1	Final Documentation Introduction	4	23-08-2020 to 25-08-2020	3	Kiran Rehman
2.2	Literature / Markey Survey	5	26-08-2020 to 28-09-2020	3	Group Member
2.3	Requirements Analysis	6	29-08-2020 to 06-08-2020	4	Group Member
2.4	System Analysis	7	07-09-2020 to 20-09-2020	14	Group Member
2.5	Implementation	8	21-09-2020 to 29-09-2020	9	Group Member
2.6	Testing & Performance Evaluation	9	29-09-2020 to 04-10-2020	6	Group Member
2.7	Conclusion & Outlook	10	05-10-2020 to 06-10-2020	2	Group Member
2.8	End User Documentation	11	07-10-2020 to 08-10-2020	2	Abdul Mannan
2.9	Application Administration Documentation	12	08-10-2020 to 12-10-2020	5	Abdul Mannan

2.10	System Administrator Documentation	13	13-10-2020 to 14-10-2020	2	Abdul Mannan
3	System		15-10-2020		
3.1	Development Environment	14	15-10-2020 to 16-10-2020	2	Group members
3.1.1	IDE	15	17-10-2020 to 18-10-2020	2	Group members
3.1.2	Version Control	16	19-10-2020 to 20-10-2020	2	Group members
3.1.3	Server	17	19-10-2020 to 20 -10-2020	2	Group members
3.1.4	Database	18	21-10-2020 -22-10-2020	2	Group members

Table 2: Role & Responsibility Matrix

1.7.3. Gantt Chart

**Figure 2: Gantt Chart**

1.8. Report Outline

The future plan of this project is to improved design; implementation and documentation in such a way that anyone can use this project for better perform. I will develop the site more dynamically and the database work as well. There are some limitations in my project. In future I will add the following module for better improvement of the project:

- Online account verification.
- Protect shell bidding.
- Mobile application of the existing sites.
- SSL and online transaction system.
- More security in the system
- More user friendly system

Chapter 2

Software Requirement Specifications

Chapter 2: Software Requirement Specifications

2.1. Introduction

The introduction of this chapter includes following sub sections. The purpose of in which the search and documentation conventions intended audience and product scope.

2.1.1. Purpose

This document specifies the software requirement specification of the online auction system that runs through a website and is based on HTML/CSS at the frontend and PHP and SQL at the backend.

2.1.2. Document Conventions

For the description of bold terms please refer to the Glossary section which is provided as 'Appendix A' at the end of this document.

2.1.3. Intended Audience and Reading Suggestions

We hereby also explain the purpose that this document is intended for the developers, project managers, marketing staff, users, testers, and documentation writers. This SRS report contains all the analysis for the development of a strong online auction system. We also suggest this audience according to the open-source nature of the project, may be, if someone considers this project to be more precisely crafted, then there is a space we spare for. The sequence for reading the document, beginning with the overview sections and proceeding through the modules and Data flow sections that are most pertinent to each reader type to understand the system.

2.1.4. Product Scope

The project scope defines the concept and range of the proposed solution. The concept of real time bidding website is that it provides login for three type or users (Admin, Buyer, Seller) from which buyer and seller can build their profile. And also update their profiles. The main goal and objective of this project that why we choose this project is that the people want quality products from homes or online as well as quality products. Our website will provide a platform to facilitate such that peoples and increase the of our country economic wise growth of Pakistan auction bidding.

2.1.5. References

- W.WANG, H.ZOLTÁN, Skill bidding in multi round in e-auctions , In Proceedings of the 35th Hawaii International Conference on System Sciences, Big Island,Hawaii,2002.
- Pinker, E. J.; Sideman, A.; Vakrat, Y. (2003). "Managing Online Auctions: Current Business and Research Issues".
- Hilton J and Kloul L. Performance investigation of online auction system. Practical and Experience, 2001, 13.

2.2. Overall Description

2.2.1. Product Perspective

The online auction system is an independent system, it involves two users, i.e. buyer and the seller. The database connection is provided on an online server to make faster and durable ease of access to data retrieval.

2.2.2. Product Functions

- Costumer must have a valid username ID and password to login to the system.
- If the user is a guest visitor the he has to register for the new account.
- If a wrong password is given three time in succession, the account will be locked temporarily and the costumer should not be able to use it for a short time.
- User can search the product of his choice whatever he wants to buy and also in particular price respectively.
- User can use the product search feature categorically according to his requirement.
- User can also view all the coming future auctions.
- All users are offered with the choices of payments management for the products they buy or sell through auctions.
- A dedicated FAQ section is also included for the users benefit.

2.2.3. User Classes and Characteristics

The user of the website portal (seller or buyer) may have the basic knowledge of computer and internet, even if the mobile user can access the website through browser.

- 1). Admin:**
- 2). Buyer:**
- 3). Seller:**

2.2.4. Operating Environment

This is website portal o you can say a web application service so it can run over all kind of operating systems that support a web browser. (Windows, IOS, Linux etc.). The system will be developed in flexible manners; back-end is in XAMP server that will run through Apache Server, and Application run on those systems/computers that have an internet access and a browser. The web browser supports the html pages and also retain the working oh PHP and SQL engines.

2.2.5. Design and Implementation Constraints

- 1) CO-1:** All HTML code shall conform to the HTML 4.0/5.0 standard by W3C.
- 2) CO-2:** All PHP code shall conform to PHP 5.5.
- 3) CO-3:** All database queries shall conform to MYSQL.
- 4) CO-4:** All scripts shall be written using JavaScript.
- 5) CO-5:** The code shall be properly indented.

2.2.6. User Documentation

User documentation components to be delivered along with Database will be in user manual.

2.2.7. Assumptions and Dependencies

This system can only be viewed on the products and pages until a user login is provided with a correct password and User-ID to properly access the auction services, accounts, payments, premium offers and user profiles.

2.3. External Interface Requirements

2.3.1. User Interfaces

The interface will be in the form of web-app, it is designed to be as much functional and minimal in its styling. All products will be displayed in an image-description format. HTML and CSS will be used to setup the page layout and make the interface user friendly.

2.3.2. Hardware Interfaces

A simple Personal Computer or a Smartphone Mobile Device is required as the hardware interface to use the website voluntarily, but a personal computer is a plus if you are the admin of website.

Processor	Pentium 3or above
System Bus	32 bit
RAM	256 MB or more
HDD	40Gb or more
Monitor Display	SVGA Color (Any screen)
Keyboard	101 Keys preferred
Mouse	Serial/Cursor
Internet Connection	100kbps/DSL Broad-Band or more
Web Browser	HTML5,CSS3

Table 3: Hardware Interface

2.3.3. Software Interfaces

The server of this website is hosted using Apache Webserver (version 2.2.17 or more). It will also have a MySQL relational database. The main backend processing will be done using PHP including the connection and access of database requests.

2.3.4. Communications Interfaces

The main communication protocol will be Hypertext Transfer Protocol. This will be used to transfer information back and forth from the client to the server. HTTP, GET and POST will be used to send the information securely over the web browser.

2.4. System Features

2.4.1. Login/Signup

2.4.1.1. Description and Priority

The security feature is the bottom line of the system because the information, logins and passwords, Payments and private details of the users are the priority to be made inaccessible for any unauthorized individual. So that our clients and users can experience a safer and better use.

2.4.1.2. Stimulus/Response Sequences

Stimulus: User clicks on Login Link.

Response: Login Page is displayed

Stimulus: User Enters Username and Password

Response: Username and Password are validated from MySQL Database.

Stimulus: User Clicks on Login Button

Response: Home Page is displayed if Username and Password is correct else Error Message is displayed.

Stimulus: User clicks on Courses Link

Response: Courses are displayed

Stimulus: User Clicks on a particular course

Response: The course page and associated activities are displayed

2.4.1.3. Functional Requirements

REQ-SF1-1: The user shall be able to view and click on Login Link.

REQ-SF1-2: The user shall be able to enter the username and password

REQ-SF1-3: The database shall be able to validate username and password.

REQ-SF1-4: The user shall be able to view and click on the Courses Link.

REQ-SF1-5: The user shall be able to view the activities associated with each course

2.4.2. Selling

2.4.2.1. Description and Priority

Here the registered users can post their articles for bidding .Its a essential part of the project.

2.4.2.2. Stimulus/Response Sequences

- The seller is authenticated.
- Article description form is provided to the seller .A snapshot of the article may also be uploaded. The category of the article needs to be selected. The description may include minimum bid value, time for bid and other article characteristics.
- On client side validation the database of items for bidding will be updated.
- RSS feed for the category will also be updated.

2.4.2.3. Searching

Description and Priority

Any user can search for article based on category, cost and other parameters .This will be the top priority module as it is very essential for a prospective buyer to find the article he/she is looking for .The search will be of two type basic and advance search.

Stimulus/Response Sequences (Function Requirements)

- Any user will be selecting either basic or advance search.
- If the user selects basic search, the search will be performed on the product and category. This is for users who are not very particular about the product features.
- If the user selects advance search, he/she will be presented with form to fill in the advance features of the product like vendor, model, color etc. The search will be searched on these preferences and search results will be displayed.

2.5. Other Nonfunctional Requirements

2.5.1. Performance Requirements

The website for online auction management system shall have the following abilities and capabilities. The responsiveness of the website shall be high and the website shall behave as per the user action. The user shall be acknowledged in the form of visual changes or feedback on the site to enhance the interaction. The response time and throughput time on the site shall be minimal. Consistency on the website shall be maintained across all the web pages. The layout of the site shall be kept simple and must be self-explanatory.

2.5.2. Security/Safety Requirements

Security depends upon the access of unauthorized persons so; our website will provide the user authentication by registration process and also secure the information of registered users. Only one person can be the admin of this site to maintain it. Only admin can change the authorization to site. Backup for the website's data shall be generated every day.

2.5.3. Software Quality Attributes

Reliability

The system is reliable but its reliability also depends upon how the user interacts with the system. The system must be reliable in case of ease of access, ease of use, and also user friendly.

Availability

The availability of product or application depends on the internet availability, which is not a big problem now a day.

Maintainability

The application will be flexible and extensible enough to update easily. Any new module or information in future will be easily emerged in the system.

Portability

Portability depends on the efforts needed to transfer application from one environment to other. Our application is easy to portable because it is developed in hardware independent fashion and in Dreamweaver and with PHP language which

to some extent can be easily converted to some other software environment.

2.5.4. Business Rules

Once the bidding work is completed, the personal meeting of buyer and seller is fixed by the administrator and when the buyer and seller deal is being completed and the 2% commission amount is paid by the user by online transaction, if the commission is not paid to the administrator then the deal is termed to be incomplete or rejected.

2.6. Other Requirements

- User must register himself/herself before taking part in the bidding process
- A session cookie is formed when the users logs in and terminate when he logs out.
- A product registration module is present where the products of the seller are being uploaded. The seller should be registered and authenticate himself before uploading his product.
- Before the bidder completes his bidding process the system will verifies his credit account i.e. whether it has as much balance as required.
- The closing date of bidding will be 2 weeks after the product is displayed for auction. It will be set automatically for every product uploaded for auction.
- Web administration module will also be present. It will only be available for use for web administrator for security reasons. He can add product field, can update any data.
- When the product is auctioned to the bidder the web administrator will notify both the seller and buyer about the transaction.
- The users can choose their fields and an SMS/e-mail can be sent to them if any update is there.
- Search map of the site will be available for easy access.
- Online chat facility will be available for the bidders to ask any queries from the sellers.
- Online documentation must be legal. A tight check must be kept on it.
- Confidential data must be secured.
- Available all the time i.e. 24X7
- Flexible service architecture for future extension.
- Sellers can upload audio or video of the product.
- Users can give suggestions/complaints.
- User friendly
- Professional look and feel
- Some background processes like closing of bidding of those products whose closing date is less than the current date. It is an automatic process and hidden from web users.

Chapter 3

Use Case Analysis

Chapter 3: System Analysis

In this chapter we will discuss about role of all actors of the system that will be used this system, i.e what will be the role of admin. What will be role of buyer and seller? Which operation they can be performed.

3.1. Use Case Model

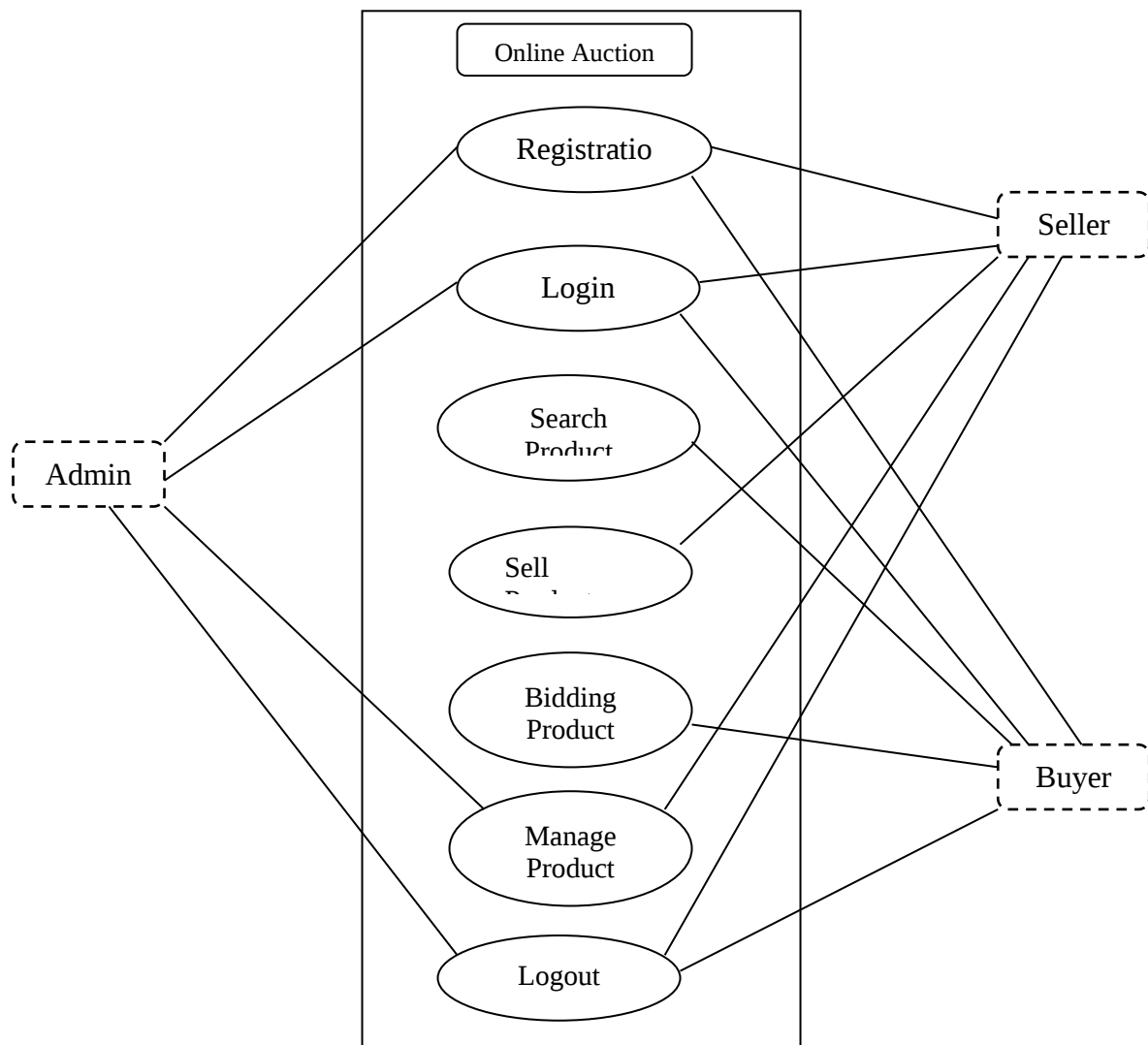


Figure 3: Use Case Model

3.2. Use Case Descriptions

There are three actors of the system. Actually our developed system have four actors but student and parent has same functionality therefore we only mentioned parent as a third and fourth actor of the system. Admin will manage.

Admin:

An admin will manage the registrations of the sellers and buyers, along with the product management using a login account.

Buyer:

A buyer is a user that registers for an account, login to the account and search for the required product, if found he'll start bidding on the products of choice. Manages the profile and account details.

Seller:

A seller is also a user who registers for an account, if new to the website, or login to the account and post products for selling, Manage them according to choice and setup profile details including login and logout feature.

3.3. Fully Dressed Use Cases:

Team working on software for large, mission-critical project:

- Extra ceremony worth extra cost
- Use case template needs to be longer and more detailed
- Writing styles should be similar
- Reviews should be tighter.

<u>Use Case Section</u>	<u>Comment</u>
Use case Name	Start with a verb.
Scope	The system under design
Level	User goal or Sub-function
Stack holders and Interests	Who cares about this use case, and what do they want?
Success Guarantee	What must be true on successful completing, and worth telling the reader
Main success scenario	Extension
Extensions	Alternate scenarios of success or failure
Special Requirement	Related non-functional Requirement

Table 4: Fully Dressed

<u>Use Case Section</u>	<u>Comment</u>
Technology and Data Variation List	Varying I/O method and data formats.
Frequency of Occurrence	Influence investigation, testing and timing of implementation.
Miscellaneous	Such as Open issues

Table 5: Fully Dressed 1

Chapter 4

System Design

Chapter 4: System Design

Systems design is the process of defining the architecture, modules, interfaces, and data for a system to satisfy specified requirements. Systems design could be seen as the application of systems theory to product development.

4.1. Architecture Diagram

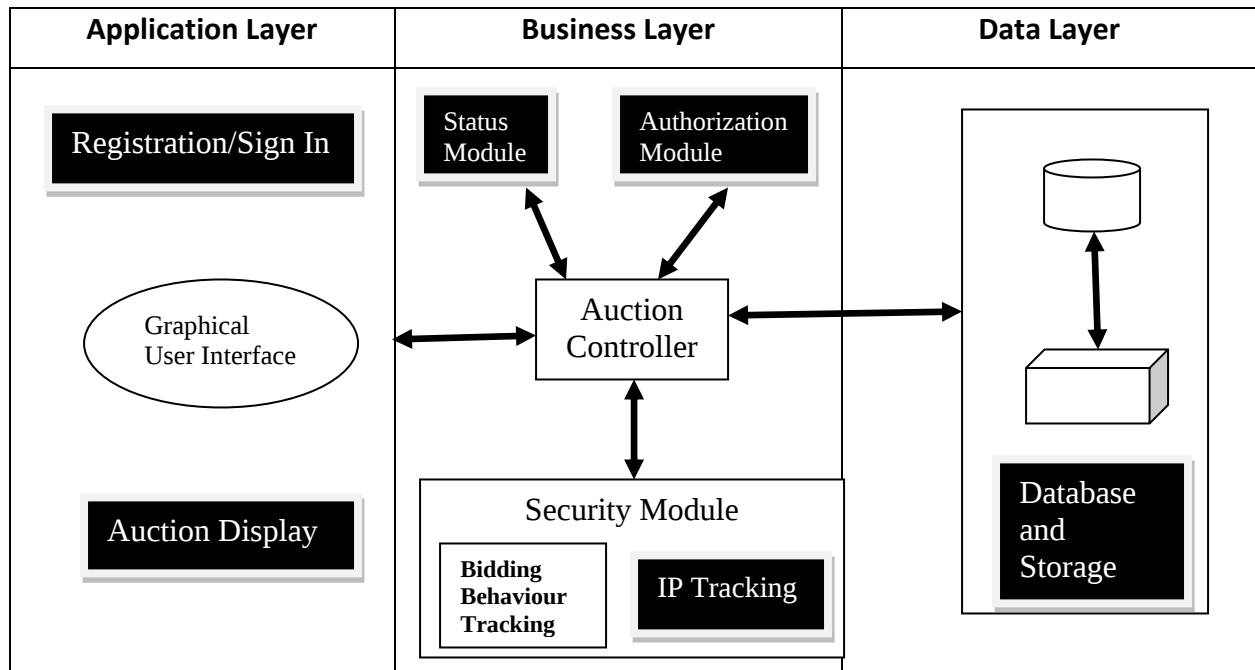


Figure 4: Architecture Diagram

4.2. Domain Model

A domain name auction system facilitates the buying and selling of currently registered domain name enabling individual to purchase a previously registered domain that suit their need from an owner wishing to sell. A drop register offers sale of expiring domain but with a domain auction there is no needed to wait until a current owner allow the registration to lapse before purchasing the domain you must want to own. Domain auction sites allow user to purchasing the domain you most want to own. Domain auction sites allow user to search the multiple domain name that are listed for sale by owner and to place bids on the name they want to purchase. As in auction the highest bidder win. The more desirable a domain name the higher the winning bid, and auction site often provide link to escrow agents to facilities the safe transfer of funds and domain properties between the auctioning parties.



4.3. Entity Relationship Diagram with data dictionary

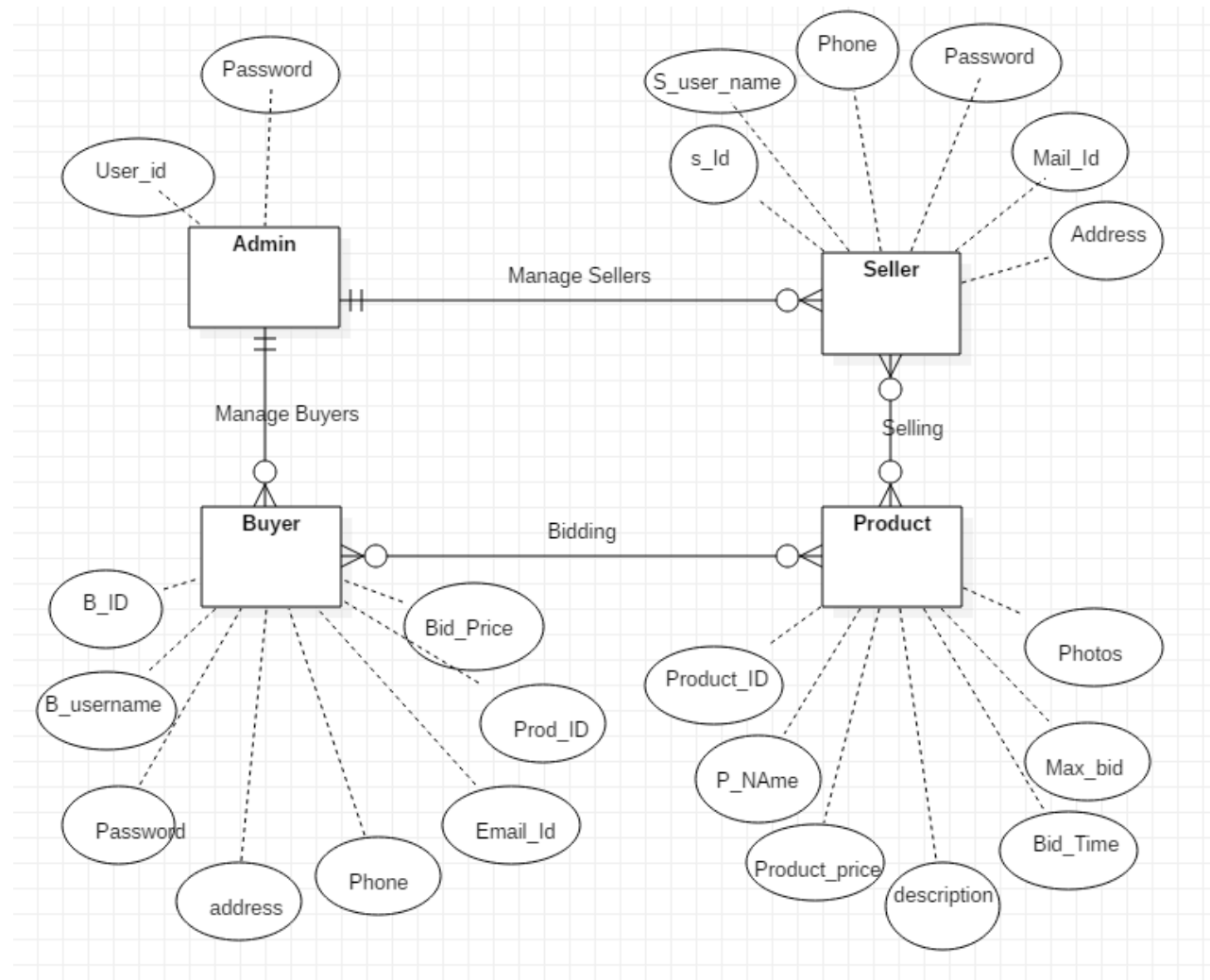


Figure 5: Entity Relationship Diagram

4.4. Class Diagram

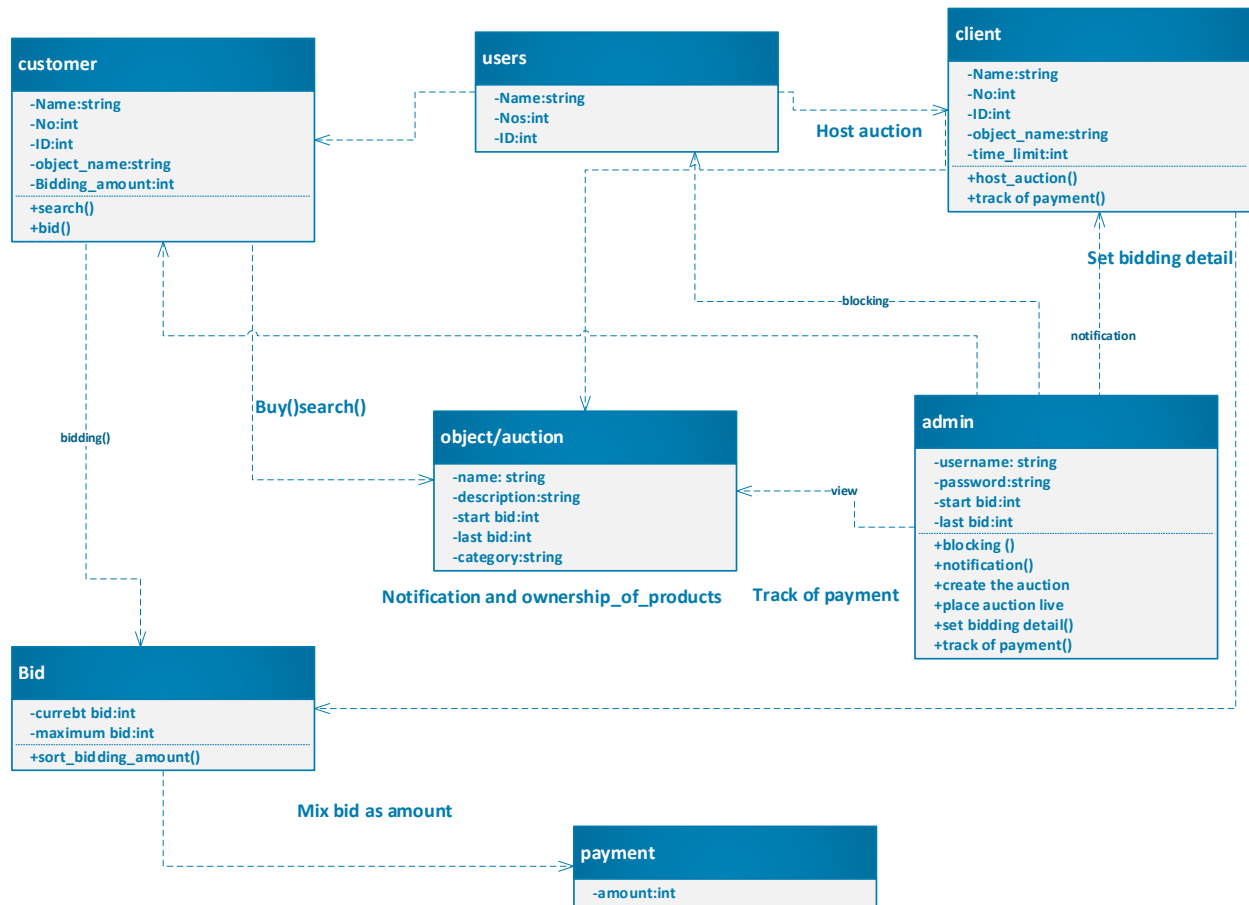


Figure 6: Class Diagram

4.5. Sequence / Collaboration Diagram

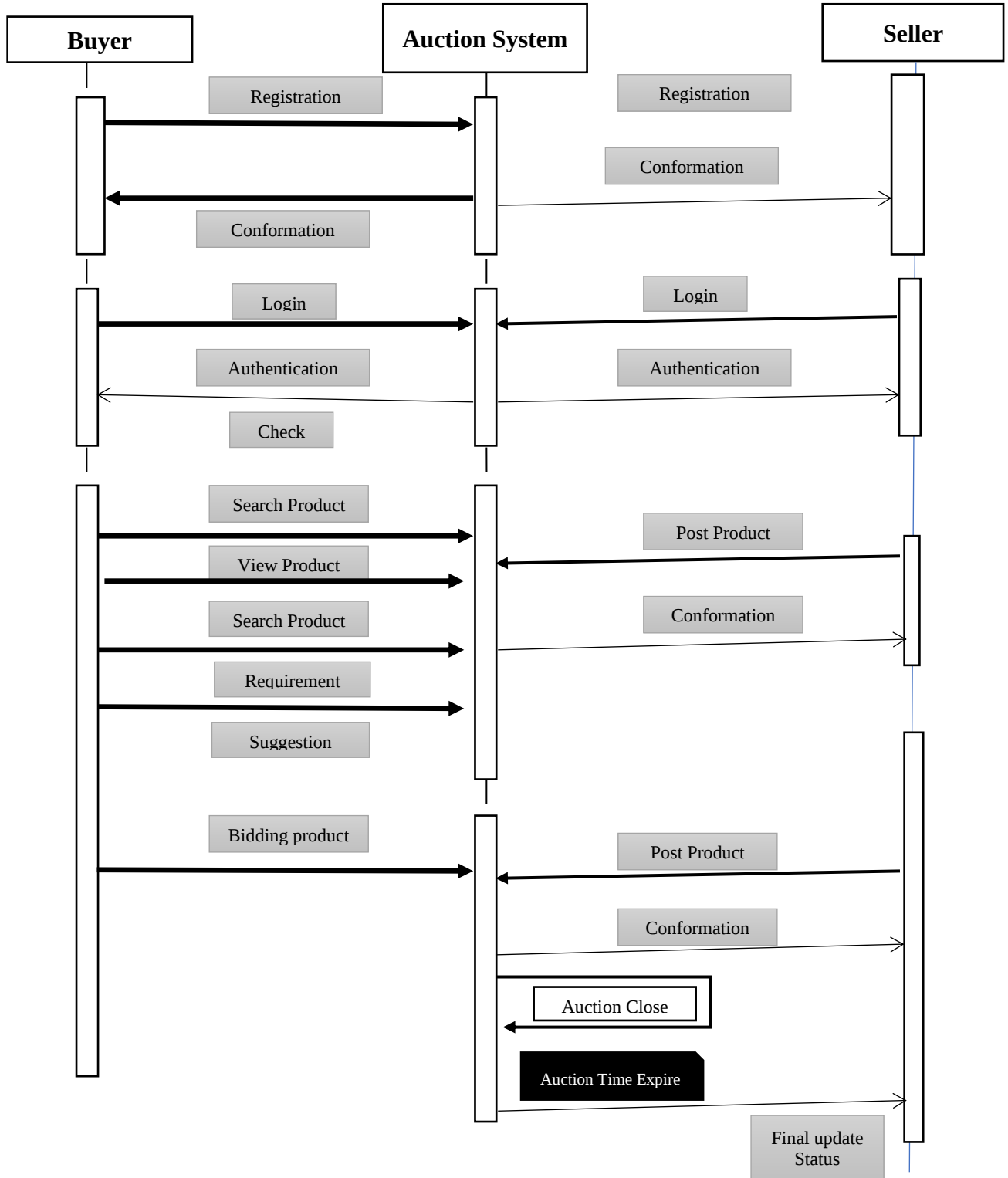


Figure 7: Sequence Diagram

4.6. Context Diagram

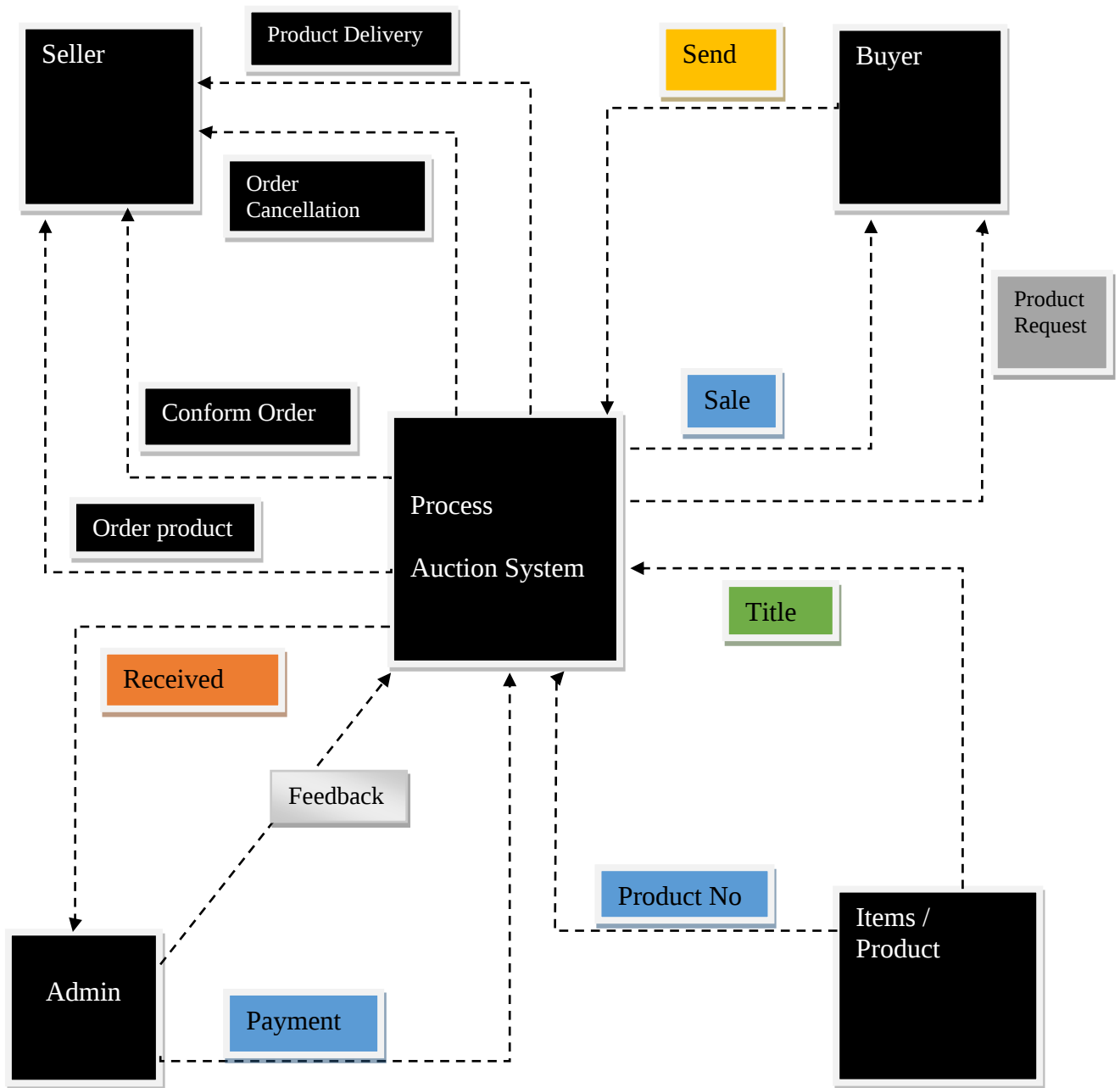


Figure 8: Context Diagram

4.7. Activity Diagram

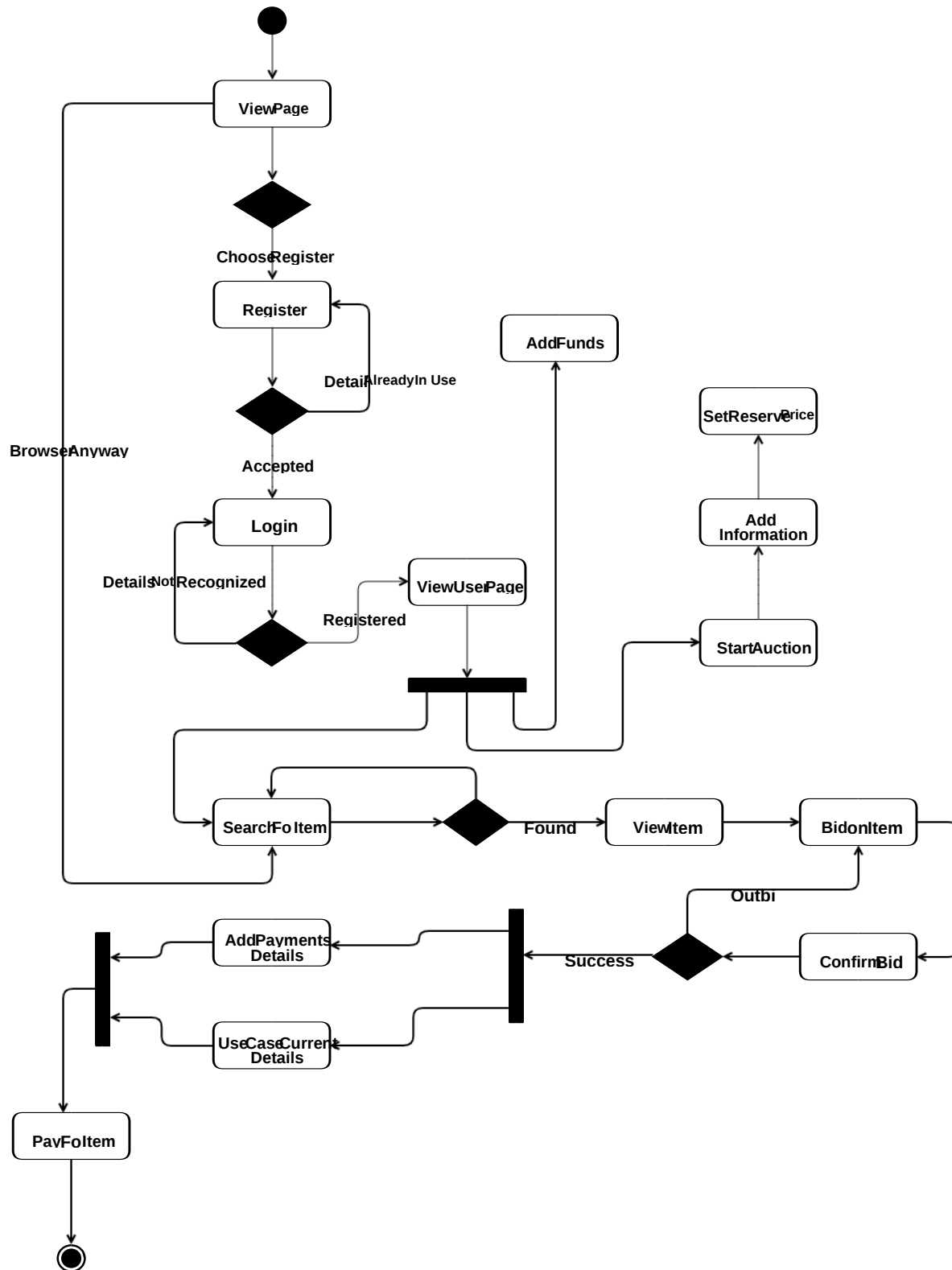


Figure 9: Activity Diagram

4.8. State Transition Diagram

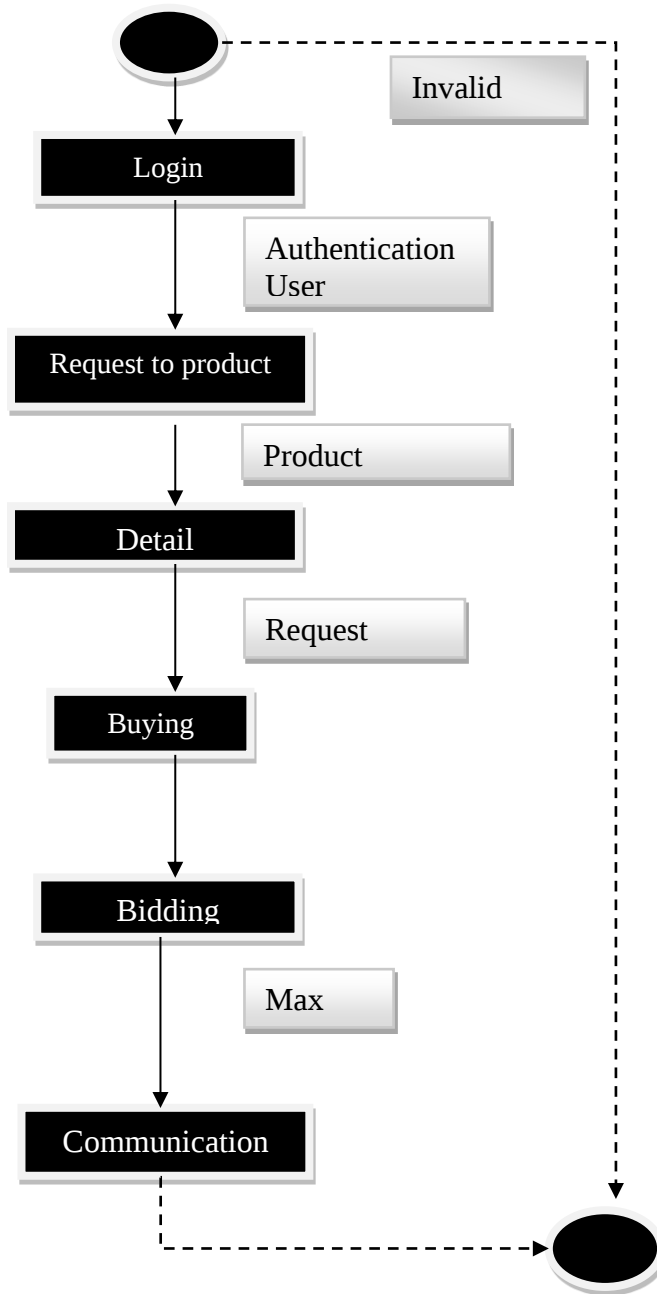


Figure 10: State Transition Diagram

4.9. Component Diagram

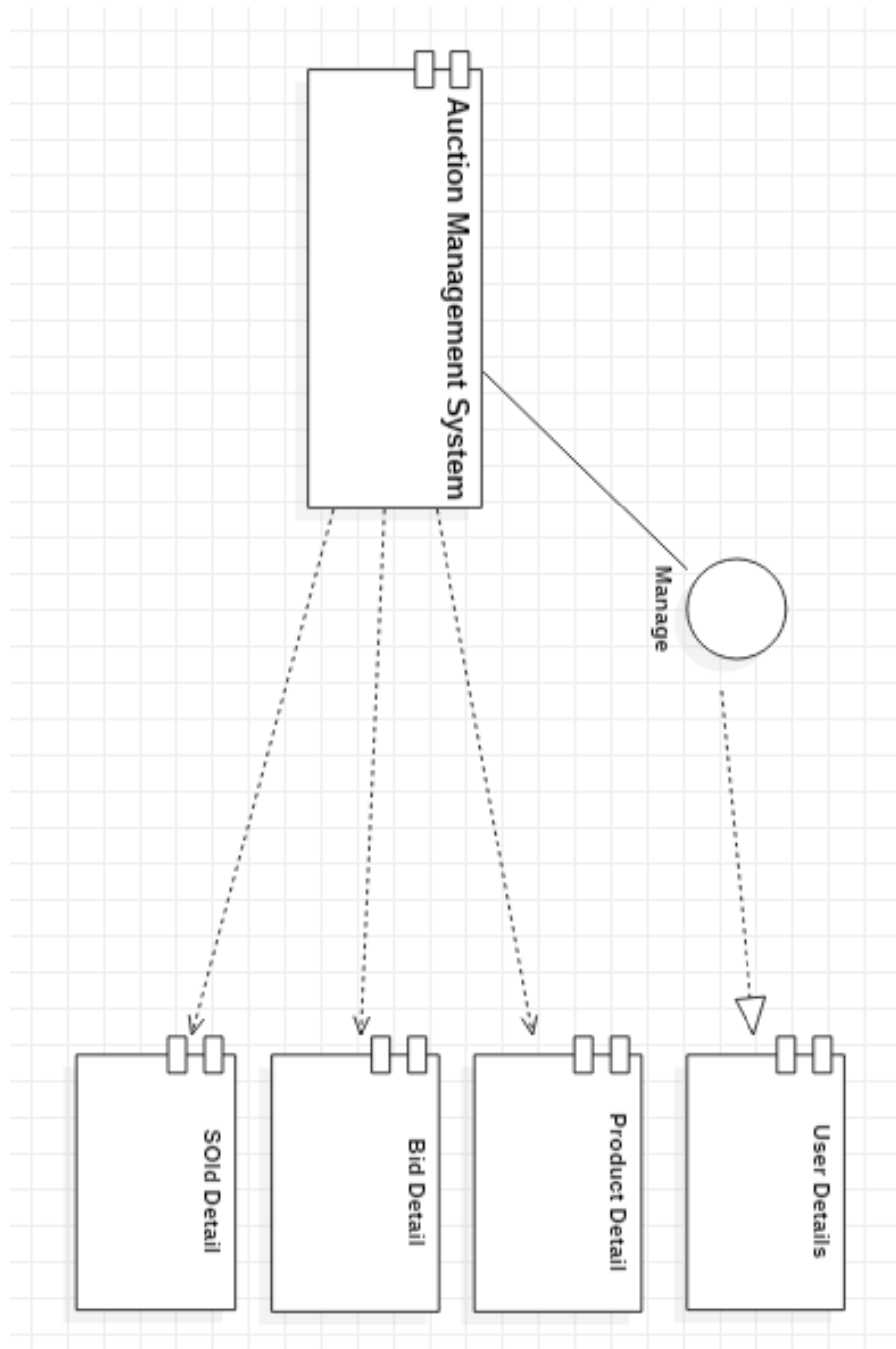


Figure 11: Component Diagram

4.10. Deployment Diagram

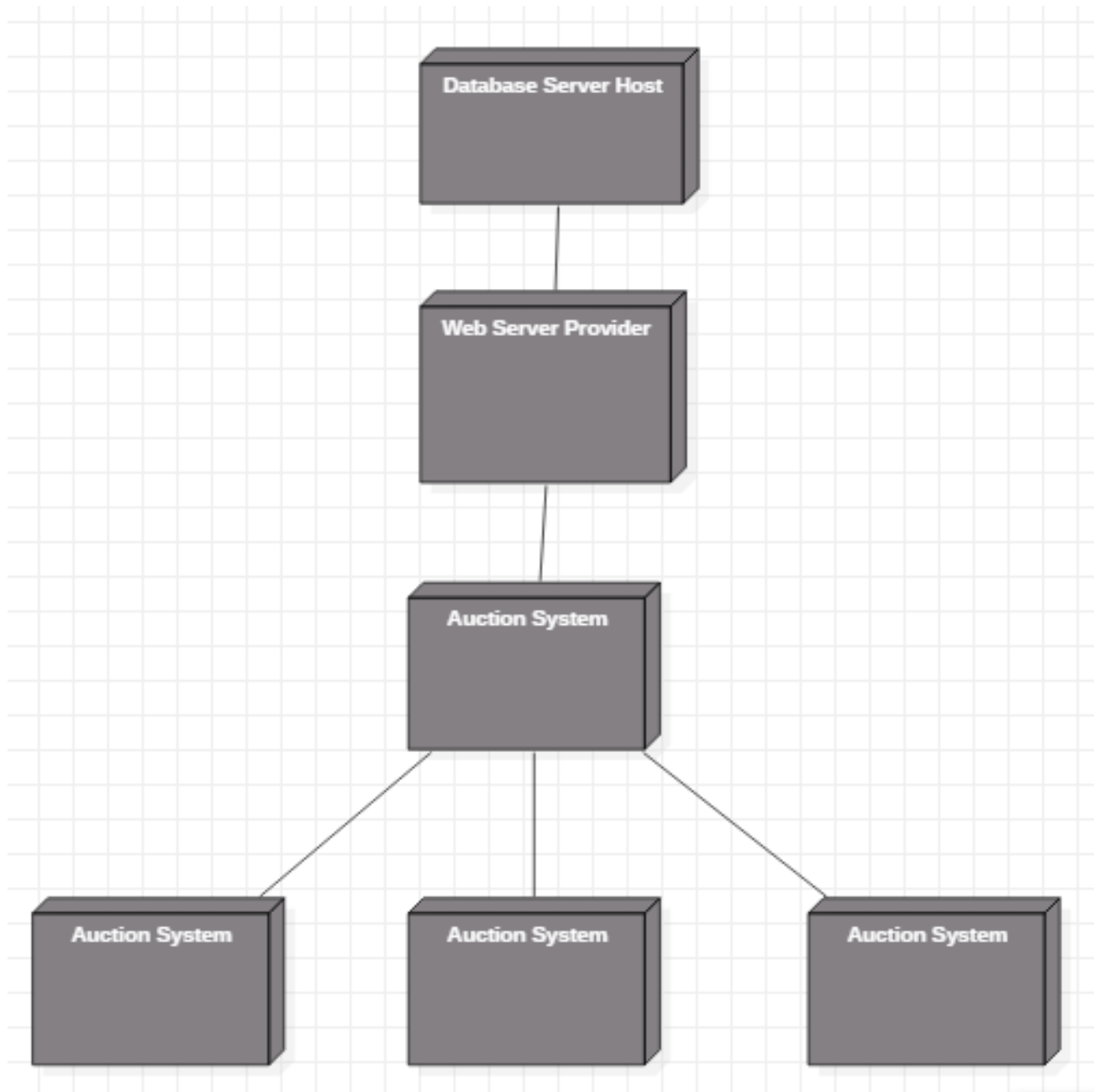


Figure 12: Development Diagram

4.11. Data Flow diagram [Level 0 and 1]

Data Flow diagram Level 0

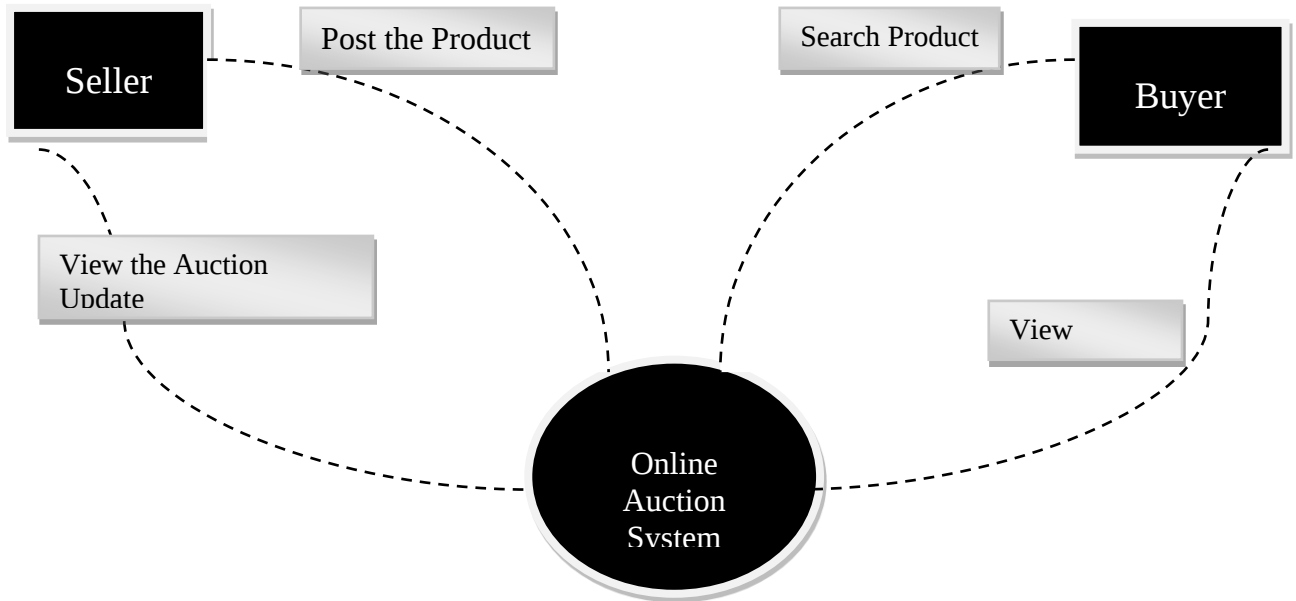


Figure 13: Data Flow Diagram Level 0

Data Flow Diagram Level 1 for Admin

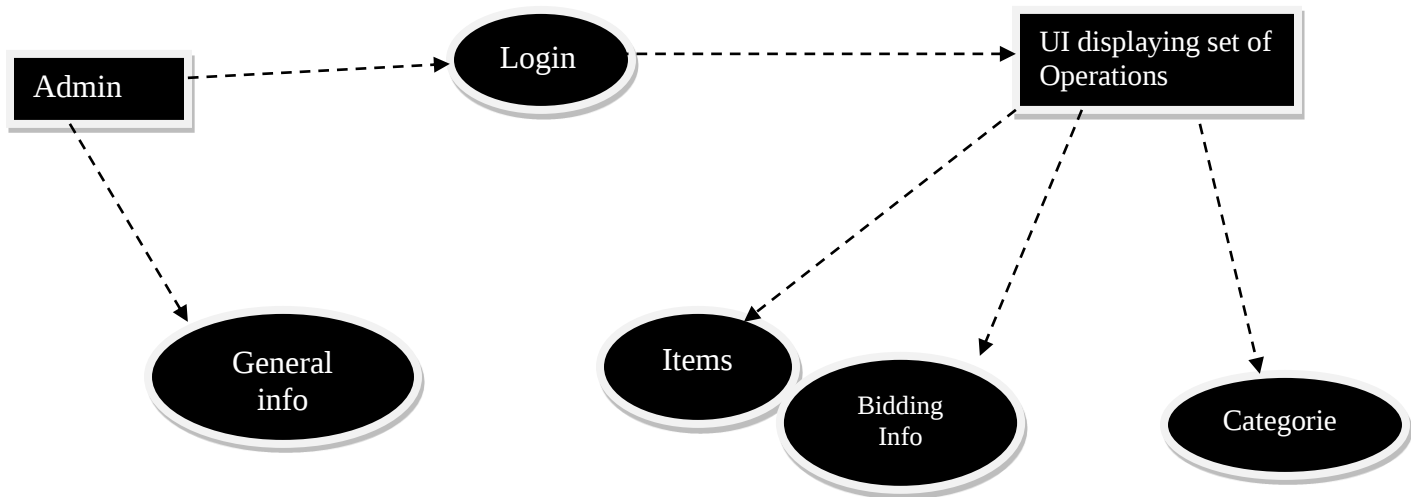
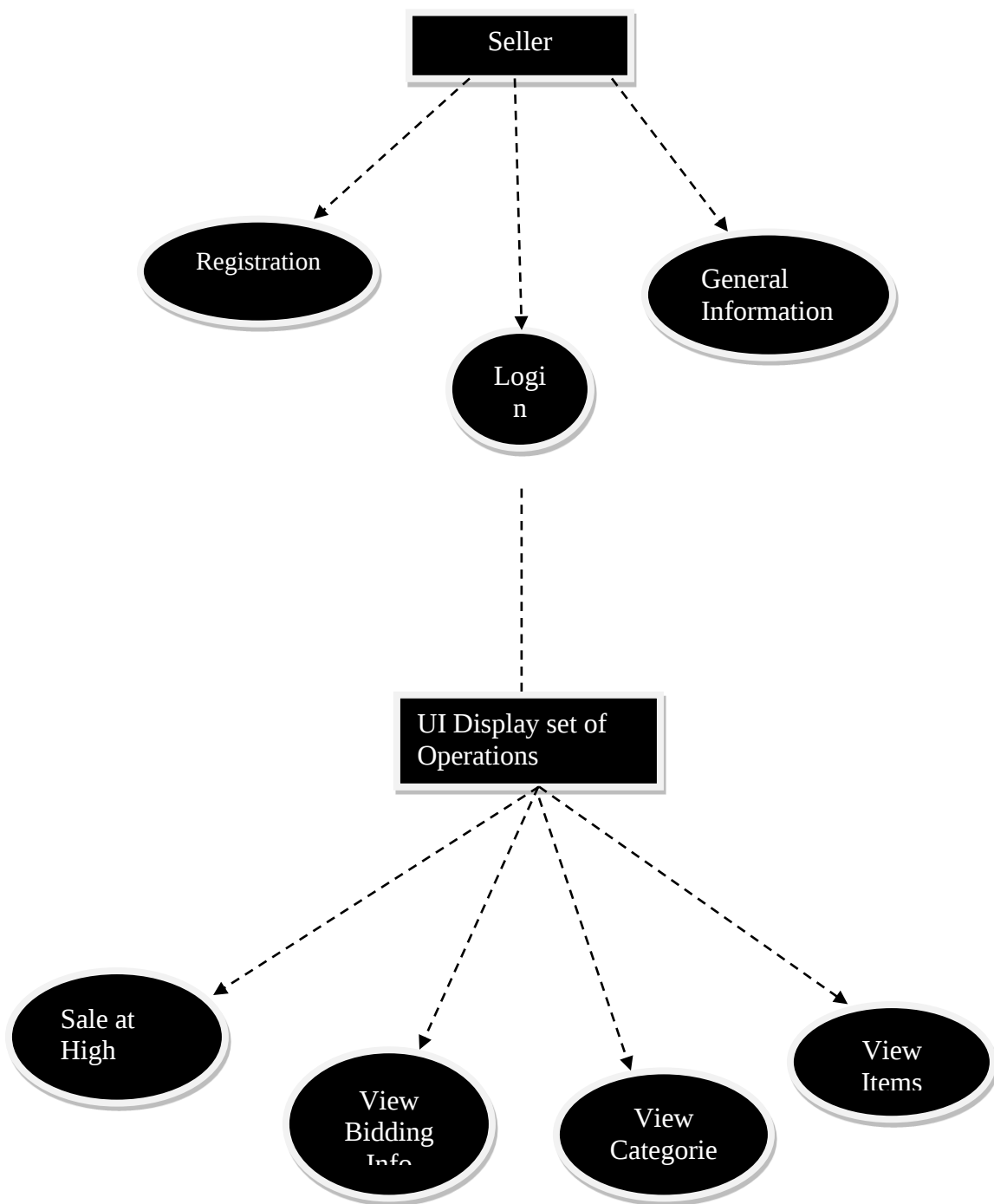


Figure 14: Data Flow Diagram Level 1 for Admin

DFD Diagram level 1 for Seller**Figure 15: Data Flow Diagram level 1 for Seller**

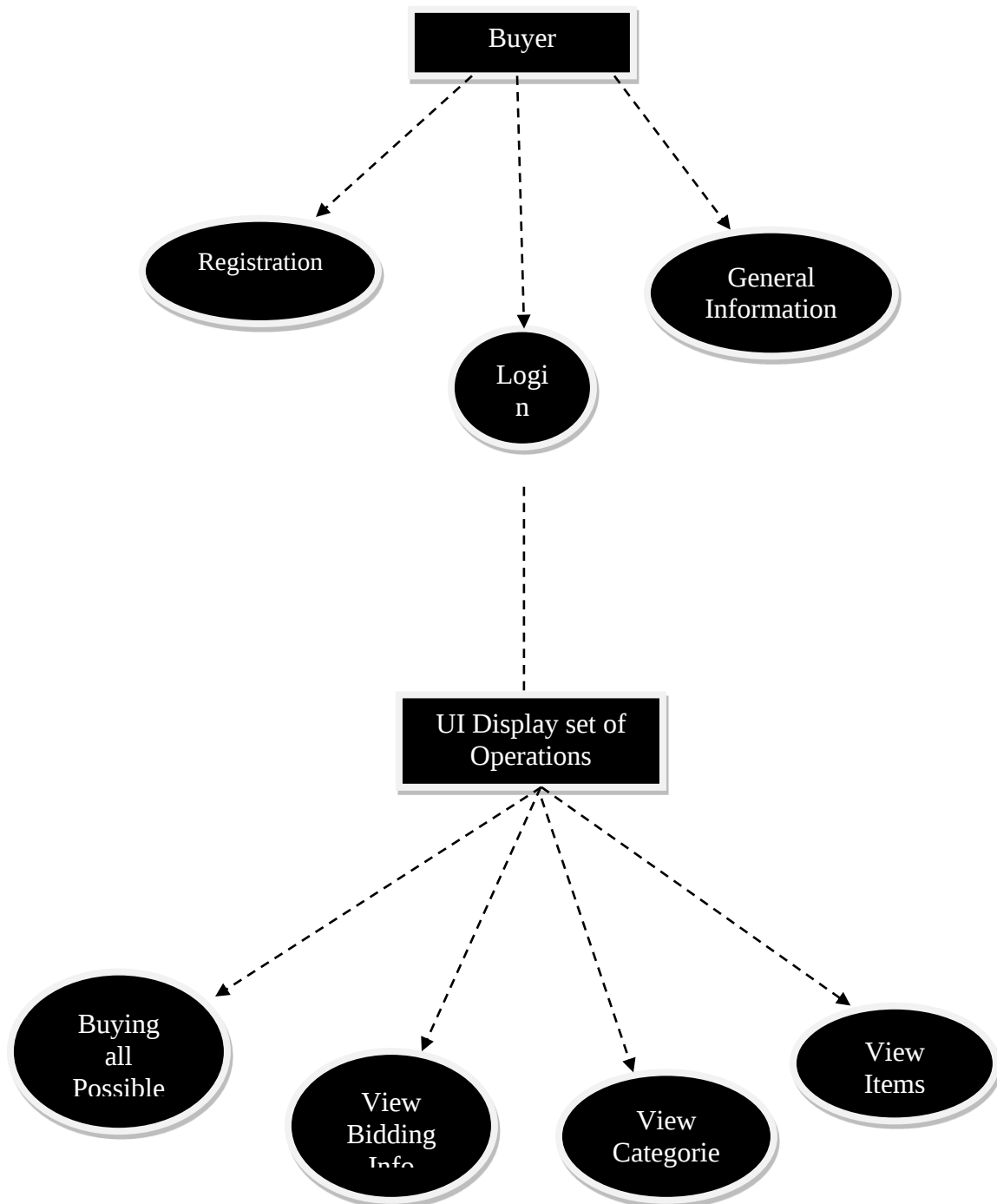
DFD Diagram level 1 for Buyer

Figure 16: Data Flow Diagram Level 1 for Buyer

Chapter 5

Implementation

Chapter 5: Implementation

The implementation includes following sub sections.

Here is the table of the functionality implemented with respect to the system requirements previously explained:

Requirements	Implemented
User Side Stories	
Home Page	YES
Registration	YES
Login	YES
Personal Page	YES
Browse	YES
Search	YES
Item Page	YES
Bid	YES
Post an Auction	YES
Help	YES
Messages	YES
Change Language	NO
Chat	YES
Administration Side Stories	
Administrator Page	YES
Manage Items	YES
Manage User	YES
Manage Categories	YES
Accept/Refuse Auction	YES

Table 6: Implementation

5.1. Components, Libraries, Web Services and stubs

5.2.1. Components:

- Web browser (or client).
- Web application server.
- Database server.

5.2.2. Libraries:

- Data tables for searching.
- JavaScript

5.2. Deployment Environment

Online hosting:

A web host, or web hosting service provider, is a business that provides the technologies and services needed for the website or webpage to be viewed in the Internet. Websites are hosted, or stored, on special computers called servers. Most hosting companies require that you own your domain in order to host with them.

5.3. Tools and Techniques

Now a day any one can download some freely available web site designing software and they can easily design a web site for their company, organization or personal web sites. Many freely available webpage design website many of the website designers made this job easier by introducing the free tutorial videos and any one can have their own website. Here some of listed web design tools help in design and development of library web site.

5.4.1. Tools:

❖ Dreamweaver:

Dreamweaver is used as text editor.

❖ Laragon server:

Laragon server is used as local web server.

5.4.2. Techniques:

1. Consistency

Across all pages of Our Web site use fonts and colour consistently for a uniform and professional appearance.

2. Orientation and Navigation

Used a navigation bar appears at the top of every page, as a series of buttons or tabs. By highlighting the tab or button correlating with the user's current location on your library Web site, we provide a visual clue and keep the user from getting lost.

3. Hypertext and Linking

Used Underline links, and a different colour to indicate links users have visited. Following these conventions helps users. Identify clickable links and any already visited.

4. Page Layout

We try to minimize the amount of space the site's logo and navigation bar occupy on the top of the page, so users can see more of the page's main content without scrolling.

5.4. Best Practices / Coding Standards

The code must pass the following syntax and design requirements:

- Each unit of code has been inherited or copied from the most appropriate object class or Template.
 - HTML code must be coded to the W3C HTML standard and validated via the W3C validation service.
 - Error messages do not describe the internal workings of the program
- Any Form used on the Web page meets the following requirements:
- If radio controls are used, a default is always selected
 - The browser places the cursor on the most appropriate field/control when the Form is first viewed
 - Using the browsers Tab key allows the client to tab through the input fields on the Form in a top to bottom, left to right order

- All data entry fields are checked for invalid data and an appropriate error message is displayed if the data is found to be invalid
- All validations are performed (and error messages displayed) in a top-down, left-to-right fashion. Any Pop-up used on the Web page meets the following requirements:
 - The pop-up is not too large for the parent window
 - The pop-up's initial screen positioning is appropriate

5.5. Version Control

Version	Date	Author	Rationale
0.1	12-08-2020	All members	Review by project
0.2	15-08-2020	All member	Review by Architecture
0.3	20-08-2020	Abdul Mannan	Review of project stakeholders
0.4	25-08-2020	All Member	Finalize the project
0.5	03-09-2020	Zunaira Ghaffar	UML DIAGRAMS
0.5.1	08-09-2020	Zunaira Ghaffar	Changes in Diagrams according our Requirments
0.5.2	09-09-2020	Zunaira Ghaffar	Change class diagram
0.6	10-09-2020	Kiran Rehman	Functional requirements
0.7	13-09-2020	Kiran Rehman	Change Functional requirements according to supervisor

Table 7: Version Control

Chapter 6

Testing and Evaluation

Chapter 6: Testing and Evaluation

This testing phase will use a number of testing techniques. The decision as to which technique(s) to use for any given unit of code will reside with the team leader responsible for signing-off on the Module.

6.1. Use Case Testing

After making application we have to ensure that every aspect of our software's features working properly or not so we apply manual testing for application to check working of the application.

6.2. Data flow testing

4. Pre-Conditions	User must have an account on the system	
Main Success Scenario	Actions/Steps	Expected Results
	User enters Email, Password and click on login button	Successfully login
	If username or password is incorrect	Cannot login ,(Display error message)
Actual Results	Successfully login in case of valid Email and Password otherwise cannot be logged in	
Success Criteria (Pass/Fail)	Pass	

Test Case#2	Login	
Test Objective	In this test we check the function of login and its validations that either this is working properly or not	
Pre-Conditions	User must have an account on the system	
Main Success Scenario	Actions/Steps	Expected Results
	User enters Email, Password and click on login button	Successfully login
	If username or password is incorrect	Cannot login ,(Display error message)
Actual Results		

	Successfully login in case of valid Email and Password otherwise cannot be logged in
Success Criteria (Pass/Fail)	Pass

6.1. Unit testing

Unit testing is a level of software testing where individual units/ components of a software are tested. The purpose is to validate that each unit of the software performs as designed. A unit is the smallest testable part of any software. It usually has one or a few inputs and usually a single output.

2. Sign Up

Test Case#1	Sign up	
Test Objective	In this test we check the function of login and its validations that either this is working properly or not	
Pre-Conditions	User must have an account on the system	
Main Success Scenario	Actions/Steps	Expected Results
	User enters Email, Password and click on login button	Successfully login
	If username or password is incorrect	Cannot login ,(Display error message)
Actual Results	Successfully login in case of valid Email and Password otherwise cannot be logged in	
Success Criteria (Pass/Fail)	Pass	

Test Case#2	Login
Test Objective	In this test we check the function of login and its validations that either this is working properly or not
Pre-Conditions	User must have an account on the system

Main Success Scenario	Actions/Steps	Expected Results
	User enters Email, Password and click on login button	Successfully login
	If username or password is incorrect	Cannot login ,(Display error message)
Actual Results	Successfully login in case of valid Email and Password otherwise cannot be logged in	
Success Criteria (Pass/Fail)	Pass	

Test Case#3	Build Profile	
Test Objective	In this test we check the functionality of this module that either this is working properly or not	
Pre-Conditions	User must have an account on the system and must be logged in	
Main Success Scenario	Actions/Steps	Expected Results
	User enters Personal information, Company details and click on Build profile button	Profile successfully built
Actual Results	Profile successfully build	
Success Criteria (Pass/Fail)	Pass	

Test Case#4	Edit Profile	
Test Objective	In this test we check the functionality of this module that either this is working properly or not	
Pre-Conditions	User must have an account on the system and must be logged in	
Main Success Scenario	Actions/Steps	Expected Results
	User click on Edit button	Page successfully opened
	Enter information that wants to edit	Successfully edited

Actual Results	Information successfully edited
Success Criteria (Pass/Fail)	Pass

Table 8: Unit Testing

Chapter 7

Summary, Conclusion and Future Enhancements

Chapter 7: Summary, Conclusion & Future Enhancements

Enhancements

Conclusions

Here it will be explained what we have realized with respect to the requirements, the problems found during the development of the system, what we have learned from the realization of the project and the possible improvements to the on-line auction portal

7.1. Project Summary

The present study was designed to making web based project named (Online Auction System) in which we complete all the aspects of project from start to its completion. The theme of this project was facilitating the peoples that want to sell their things through auction as we know that Today people don't have enough to go different places attend auction event . On the other hand, buyer and seller has no time to meet different people to find a perfect product.

7.2. Achievements and Improvements

When we start this project we have not much more knowledge of that language in which we were going to make this project. After completion this project we have learnt much more about this language so it is our achievement. We have also achieved our goals of completing this project for facilitating the peoples concerning connecting people through our platform. We have learnt a lot of lessons during the development of this project Such as project planning, management and working as team member. We have also improve our skills In web applications that will be helpful in our practical life.

7.3. Critical Review

This part can be assumed after the release of public version.

7.4. Lessons Learnt

- Decision Making
- Program Management
- Project Governance
- Project Planning
- Roles & Responsibilities.

7.5. Future Enhancements/Recommendations

- ❖ In future we will provide an API for video chatting through a buyer and seller can communication with each other for the purpose of detail specific product.

Appendices

Appendix A: Online Auction System

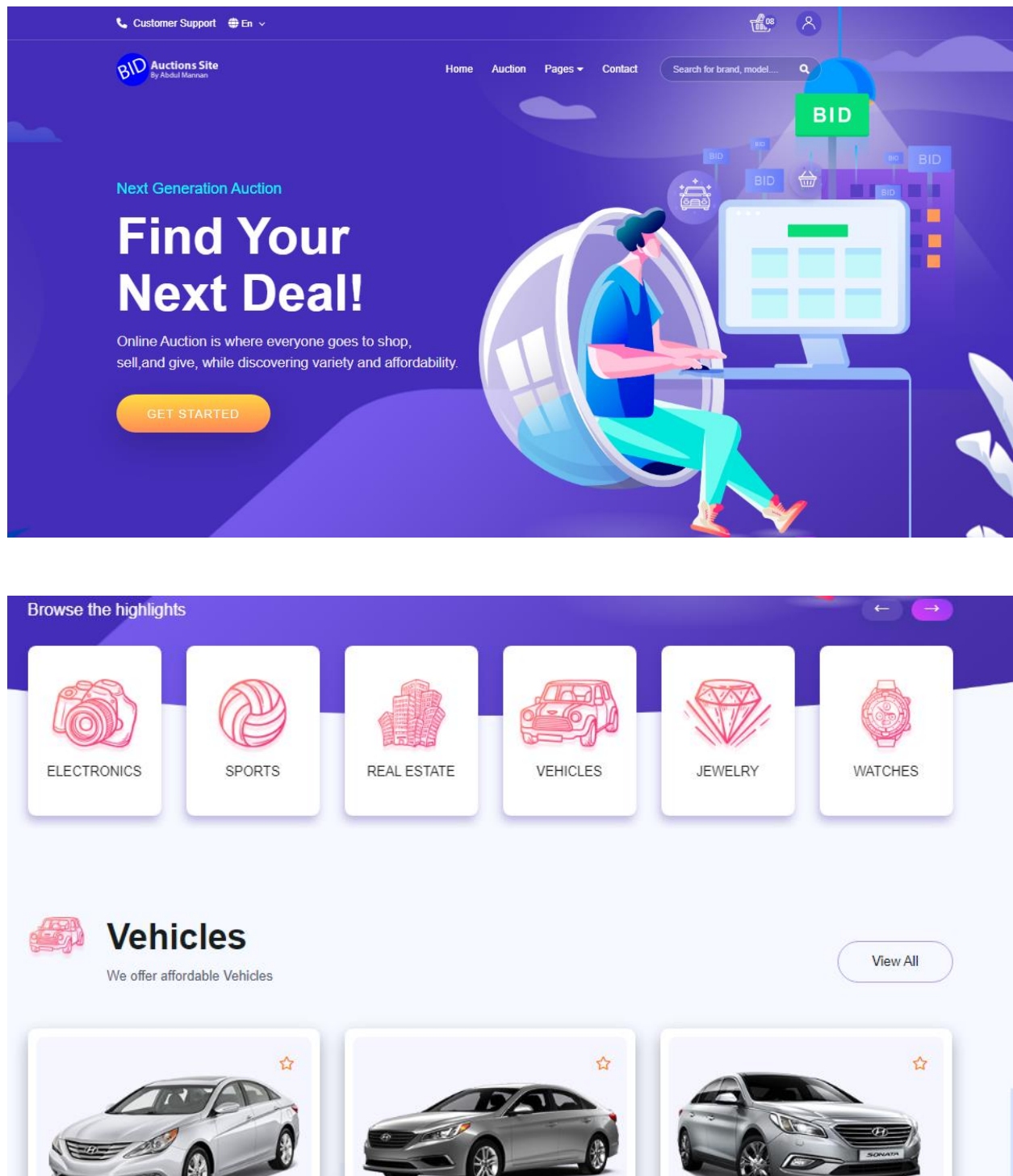
A.1. Web-Pages and modules

A.1.1. Login & Signup Page

The screenshot shows the 'SIGN UP' page of the BID Auctions Site. The header includes the site logo, navigation links (Home, Auction, Pages, Contact), and a search bar. The breadcrumb trail is 'Home → Pages → Sign Up'. The main content area features a 'SIGN UP' heading with the subtext 'We're happy you're here!'. Below this are two social login buttons: 'Log in with Facebook' and 'Log in with Google'. A separator 'Or' is followed by two input fields for 'Email Address' and 'Password'. A checkbox for 'Terms and Conditions apply' is present. A 'LOG IN' button is at the bottom. To the right, a purple sidebar contains the text 'ALREADY HAVE AN ACCOUNT?' and 'Log in and go to your Dashboard.' with a 'LOGIN' button.

The screenshot shows the 'Sign In' page of the BID Auctions Site. The header and navigation are identical to the Sign Up page. The breadcrumb trail is 'Home → Pages → Sign In'. The main content area features a 'HI, THERE' heading with the subtext 'You can log in to your Auction account here.'. Below this are two social login buttons: 'Log in with Facebook' and 'Log in with Google'. A separator 'Or' is followed by two input fields for 'Email Address' and 'Password'. A 'Forgot Password?' link is located below the password field. A 'LOG IN' button is at the bottom. To the right, a purple sidebar contains the text 'NEW HERE?' and 'Sign up and create your Account' with a 'SIGN UP' button.

A.1.2. Home Page





Vehicles

We offer affordable Vehicles

[View All](#)



2021 Hyundai Sonata

 Current Bid \$876.00 |  Buy Now \$5,00.00

0d : 7h : 0m : 35s | 30 Bids

[Submit A Bid](#)



2021 Nissan Versa, S

 Current Bid \$876.00 |  Buy Now \$5,00.00

0d : 7h : 0m : 35s | 30 Bids

[Submit A Bid](#)



2021 Honda Accord, Sport

 Current Bid \$876.00 |  Buy Now \$5,00.00

0d : 7h : 0m : 35s | 30 Bids

[Submit A Bid](#)



Jewelry

Online jewelry auctions where you can bid now and save money

[View All](#)



Gold Ring With Clear Stones

 Current Bid \$876.00 |  Buy Now \$5,00.00

0d : 7h : 0m : 11s | 30 Bids

[Submit A Bid](#)



Ring With Clear Stone Accents

 Current Bid \$876.00 |  Buy Now \$5,00.00

0d : 7h : 0m : 11s | 30 Bids

[Submit A Bid](#)



Gold Ring With Clear Stones

 Current Bid \$876.00 |  Buy Now \$5,00.00

0d : 7h : 0m : 11s | 30 Bids

[Submit A Bid](#)

Closing Within 24 Hours

Popular Auctions

Bid and win great deals, Our auction process is simple, efficient, and transparent.



Apple Macbook Pro Laptop

 Current Bid
\$876.00

Total Bids : 130 Bids



Canon EOS Rebel T6I Digital Camera

 Current Bid
\$876.00

Total Bids : 130 Bids



14k Gold Geneva Watch, 24.5g

 Current Bid
\$876.00

Total Bids : 130 Bids



14K White Gold 185.60 Grams 5.95 Carats

 Current Bid
\$876.00

Total Bids : 130 Bids



Real Estate

Find auctions for Homes, Condos, Residential & Commercial Properties.

[View All](#)

Brand New Apartments In Karachi, Pakistan

 Current Bid
\$876.00

 Buy Now
\$500.00

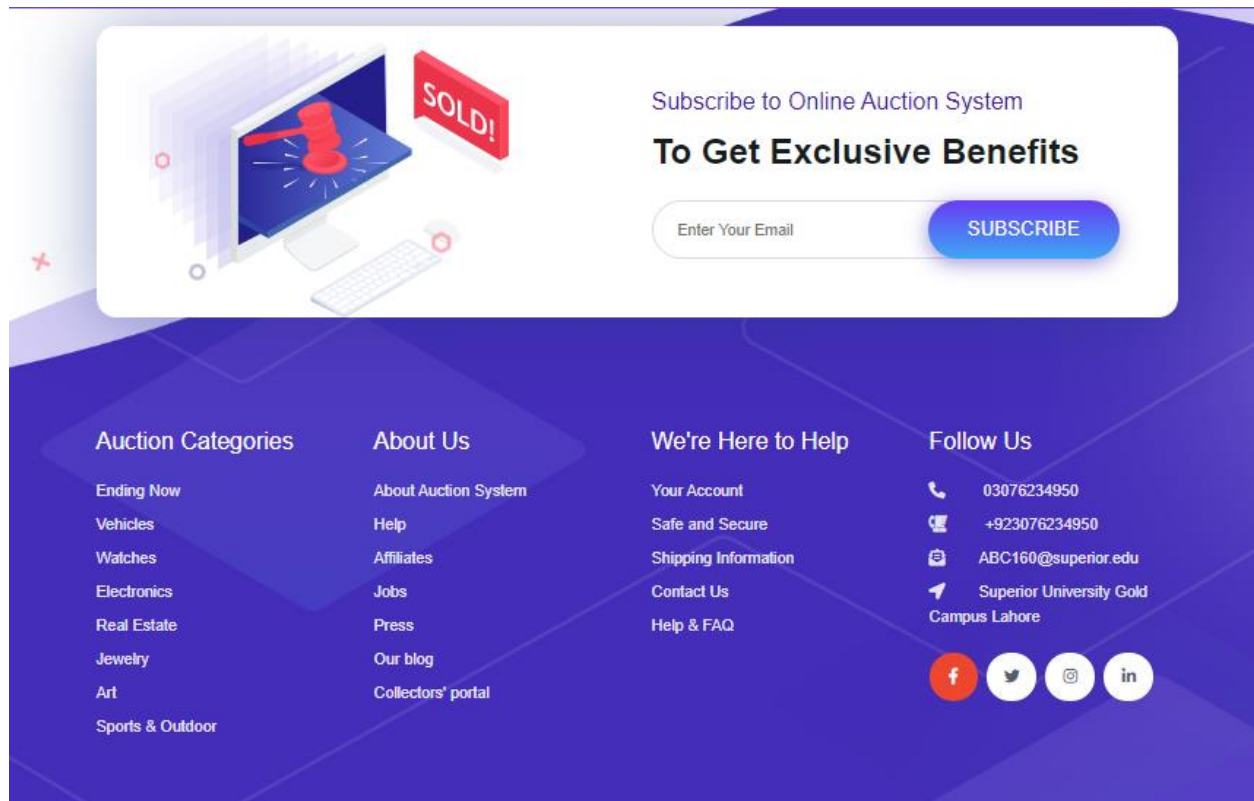
0d : 6h : 59m : 12s

30 Bids

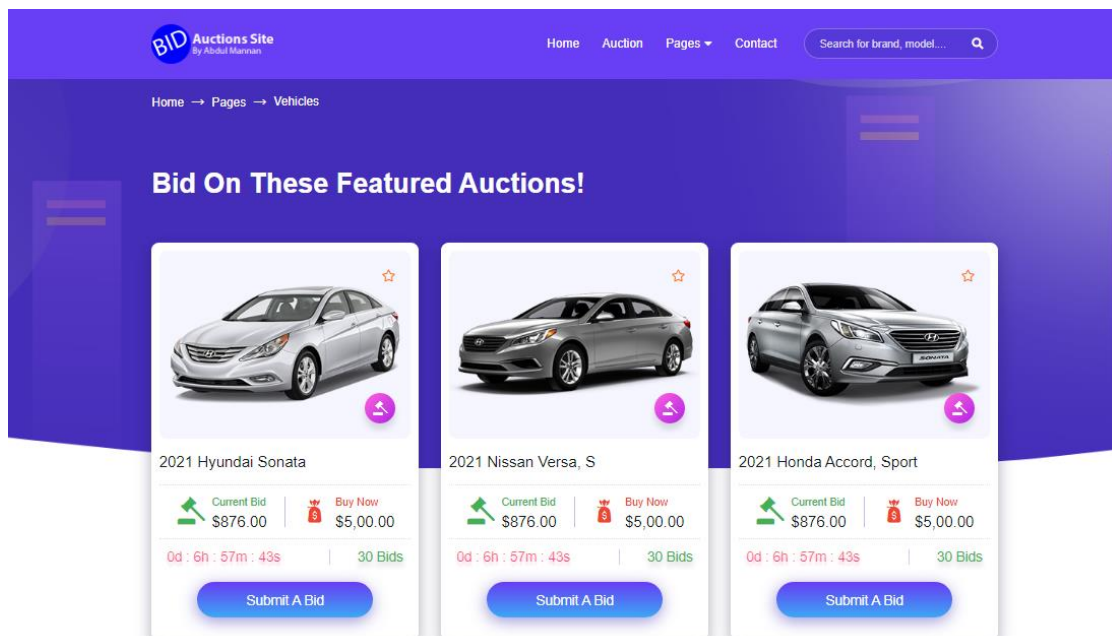
[Submit A Bid](#)



← 1 2 3 4 5 →



A.1.3. Product Page





[Home](#) [Auction](#) [Pages](#) [Contact](#)

Sort By :

All

 Show :

09



2021 Mercedes-Benz C, 300

 Current Bid \$876.00

 Buy Now \$5,00.00

0d : 6h : 57m : 16s

30 Bids

Submit A Bid



2021 Harley-Davidson XG750,

 Current Bid \$876.00

 Buy Now \$5,00.00

0d : 6h : 57m : 16s

30 Bids

Submit A Bid



2021 Hyundai Elantra, Sel

 Current Bid \$876.00

 Buy Now \$5,00.00

0d : 6h : 57m : 16s

30 Bids

Submit A Bid



2021 Ford Expedition

 Current Bid \$876.00

 Buy Now \$5,00.00

0d : 6h : 56m : 53s

30 Bids

Submit A Bid



2021 Buick Envision

 Current Bid \$876.00

 Buy Now \$5,00.00

0d : 6h : 56m : 53s

30 Bids

Submit A Bid



2021 Dodge Grand, Sxt

 Current Bid \$876.00

 Buy Now \$5,00.00

0d : 6h : 56m : 53s

30 Bids

Submit A Bid

←

1

2

3

→

1A.1.2.2 Biding page

The screenshot displays the 'Bidding page' of the 'BID Auctions Site'. The page is divided into a header, a main content area, and a footer.

Header: The header includes the site logo 'BID Auctions Site By Abdul Mannan', navigation links 'Home', 'Auction', 'Pages', and 'Contact', and a search bar with the placeholder text 'Search for brand, model...'. The background is a solid purple color.

Main Content Area:

- User Profile (Left):** A white card containing a circular profile picture of Abdul Mannan, his name, and email 'mcsm-f19-160@superior.edu.pk'. Below this is a list of menu items: 'Dashboard', 'Personal Profile', 'My Bids' (highlighted), 'Winning Bids', 'My Alerts', 'My Favorites', and 'Referrals'.
- My Bids (Right):** A white card titled 'My Bids' with a 'Manage Notifications' link. It features two tabs: 'Upcoming' (orange) and 'Past' (blue).
- Auction Listings (Center):** Two white cards displaying auction items. Each card includes a car image, a star icon, and a 'Submit A Bid' button.
 - 2021 Hyundai Sonata:** Current Bid \$876.00, Buy Now \$5,00.00, 30 Bids, and a timer showing 0d : 6h : 54m : 34s.
 - 2021 Nissan Versa, S:** Current Bid \$876.00, Buy Now \$5,00.00, 30 Bids, and a timer showing 0d : 6h : 54m : 34s.

Footer: The footer is a purple bar with the same navigation and search elements as the header.

Bottom Section: Below the main content area, there are two more auction listings, each with a 'Submit A Bid' button above it:

- 2021 Mercedes-Benz C, 300:** Current Bid \$876.00, Buy Now \$5,00.00, 30 Bids, and a timer showing 0d : 6h : 54m : 11s.
- 2021 Harley-Davidson XG750:** Current Bid \$876.00, Buy Now \$5,00.00, 30 Bids, and a timer showing 0d : 6h : 54m : 11s.

2A.1.2.2 Winning Page

3A.1.2.2

BID Auctions Site
By Abdul Mannan

Home Auction Pages Contact Search for brand, model...

Winning Bids

Item Name Sort By: All

Abdul Mannan
Abdulmannan2798@gmail.com

- Dashboard
- Personal Profile
- My Bids
- Winning Bids
- My Alerts
- My Favorites
- Referrals

2021 Hyundai Sonata

Current Bid: \$876.00 Buy Now: \$5,000.00

0d : 6h : 53m : 29s | 30 Bids

Submit A Bid

2021 Nissan Versa, S

Current Bid: \$876.00 Buy Now: \$5,000.00

0d : 6h : 53m : 29s | 30 Bids

Submit A Bid

4A.1.2.2 Dashboard

BID Auctions Site
By Abdul Mannan

Home Auction Pages Contact Search for brand, model...

Home → My Account → Dashboard

Abdul Mannan
mcsn-f19-160@superior.edu.pk

- Dashboard
- Personal Profile
- My Bids
- Winning Bids
- My Alerts
- My Favorites
- Referrals

My Activity

80 Active Bids

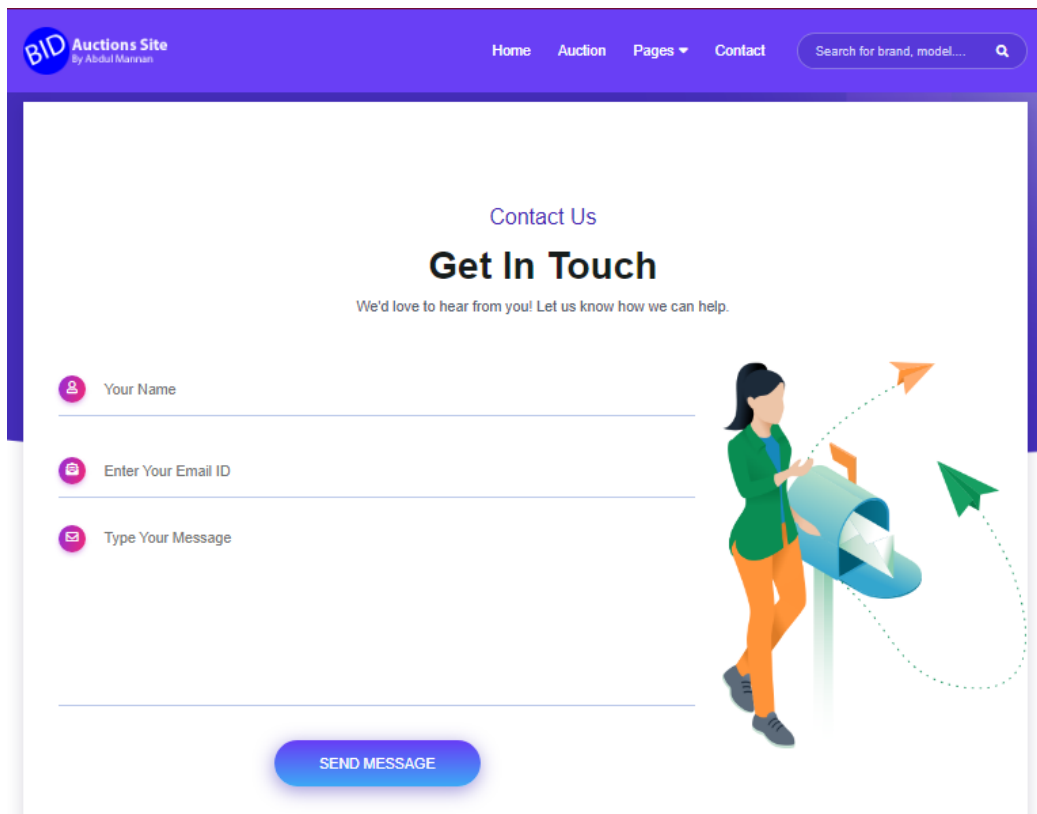
15 Items Won

115 Favorites

Purchasing

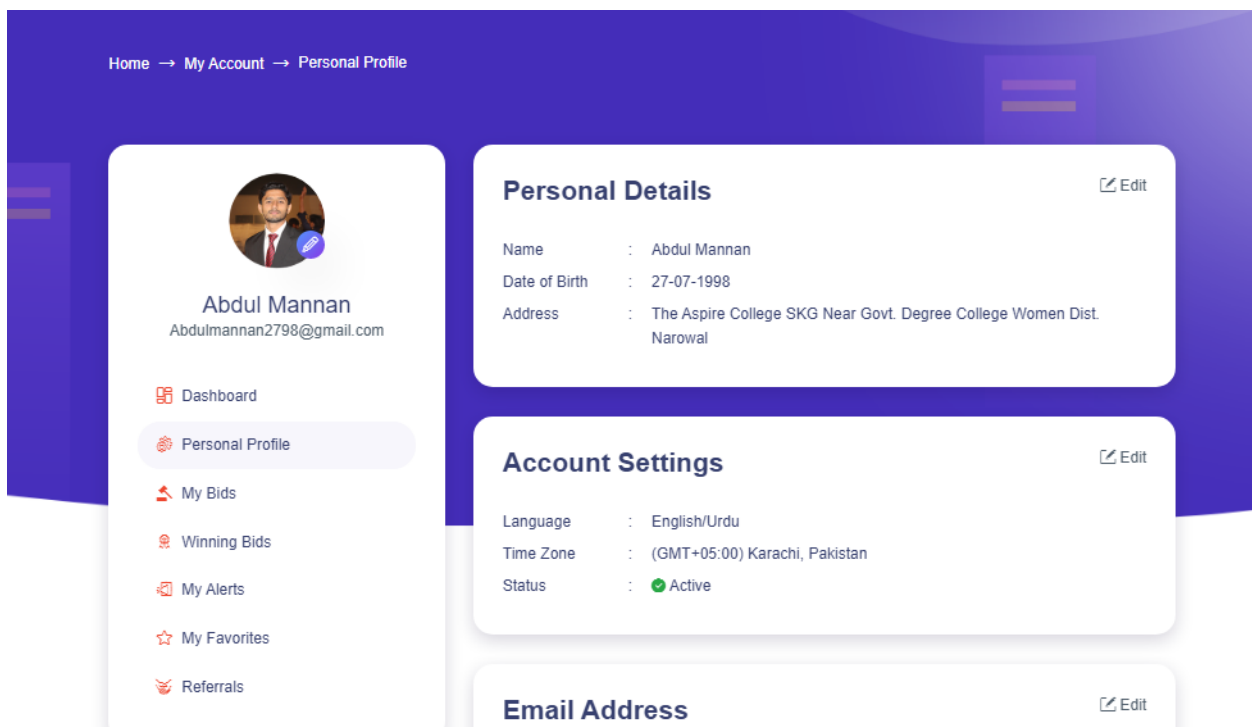
Item	Bid Price	Highest Bid	Lowest Bid	Expires
2021 Hyundai Sonata	\$1,775.00	\$1,775.00	\$1,400.00	7/5/2021
2021 Hyundai Sonata	\$1,775.00	\$1,775.00	\$1,400.00	7/5/2021
2021 Hyundai Sonata	\$1,775.00	\$1,775.00	\$1,400.00	7/5/2021

5A.1.2.2 Contact Page



The screenshot shows the 'Contact Us' page of the 'Auctions Site By Abdul Mannan'. The page has a purple header with navigation links: Home, Auction, Pages, and Contact. A search bar is located on the right. The main content area is white with a purple border. It features a 'Contact Us' heading, followed by 'Get In Touch' and a subtext: 'We'd love to hear from you! Let us know how we can help.' Below this are three input fields: 'Your Name', 'Enter Your Email ID', and 'Type Your Message'. A blue 'SEND MESSAGE' button is at the bottom. An illustration of a woman in a green jacket and orange pants standing next to a blue mailbox with arrows pointing away from it is on the right.

6A.1.2.2 Profile Information



The screenshot shows the 'Personal Profile' page of the 'Auctions Site By Abdul Mannan'. The page has a purple header with navigation links: Home, My Account, and Personal Profile. The main content area is white with a purple border. It features a profile card on the left with a profile picture of Abdul Mannan, his name, and email address. Below the profile card is a sidebar menu with links: Dashboard, Personal Profile (highlighted), My Bids, Winning Bids, My Alerts, My Favorites, and Referrals. To the right of the profile card are two main sections: 'Personal Details' and 'Account Settings'. Both sections have an 'Edit' link. The 'Personal Details' section shows: Name: Abdul Mannan, Date of Birth: 27-07-1998, and Address: The Aspire College SKG Near Govt. Degree College Women Dist. Narowal. The 'Account Settings' section shows: Language: English/Urdu, Time Zone: (GMT+05:00) Karachi, Pakistan, and Status: Active. Below these sections is an 'Email Address' section with an 'Edit' link.



Abdul Mannan
Abdulmannan2798@gmail.com

- Dashboard
- Personal Profile**
- My Bids
- Winning Bids
- My Alerts
- My Favorites
- Referrals

Status : Active

Email Address Edit

Email : Abdulmannan2798@gmail.com

Phone Edit

Mobile : +92 307 6234950

Security Edit

Password : xxxxxxxxxxxxxxxxx

7A.1.2.2 FAQs Page

FAQ

Do not hesitate to send us an email if you can't find what you're looking for.

Where can I find my bidding history?

To see your bidding history, go to Online Auction System and select Bids/Offer. There you'll find any items you're currently bidding on, items you bid on but didn't win, and any Best Offers you've made. If you want to delete your bidding history, check the box next to items you'd like to remove and select Delete.

Tips for Winning Auctions

How bidding works

Why can't I bid in my friend's auction?

What happens if we accept your bid

For Companies

For Freelancers

Your Account

Pricing Plans



Reference and Bibliography

Reference and Bibliography

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