Software Design Document

Online Auction System

Submitted By

Shivangi Agarwal

Shruti Jain

Shweta Tiwari

Pooja Joshi

Divyanshi Nigam

Akash Karsale

Srijnasri Negi

Akash Sirsikar

Shreya Rathi

TABLE OF CONTENTS

1. INTRODUCTION

1.1 Purpose

- The SDS shows how the software system will be structured to satisfy the requirements identified in the SRS.
- It is a translation of requirements into a description of software structure, software components, interfaces and data necessary for the implementation phase.
Thus, SDS is the **blue print** for the implementation activity.

1.2 Scope

Online Auction is a web based application project which will be used for the auctioning of products.

At present the user must register themselves as seller or buyer to schedule and place bids. The seller can add products and schedule bids and buyer can place bids. Through this website:

- The seller can add products
- The seller can schedule the auction according to its needs
- The seller can view and manage the products put up for auctioning
- The buyer can place the bid on multiple products multiple times according to its preference
- The user needs to register themselves as the seller or buyer to access the online auction system

1.3 Overview

The **rest of the SDS** consists of the following parts:-

System Architecture Design includes High Level Design, Sequence Diagram, Activity Diagram.

- Data Design includes Database Description.
- Detailed Description of Components.
- User Interface Designs.

1.4 Definitions and Acronyms

Http: hypertext transfer protocol

TCP/IP: Transmission control Protocol/ Internet Protocol

SQL: Structure Query Language

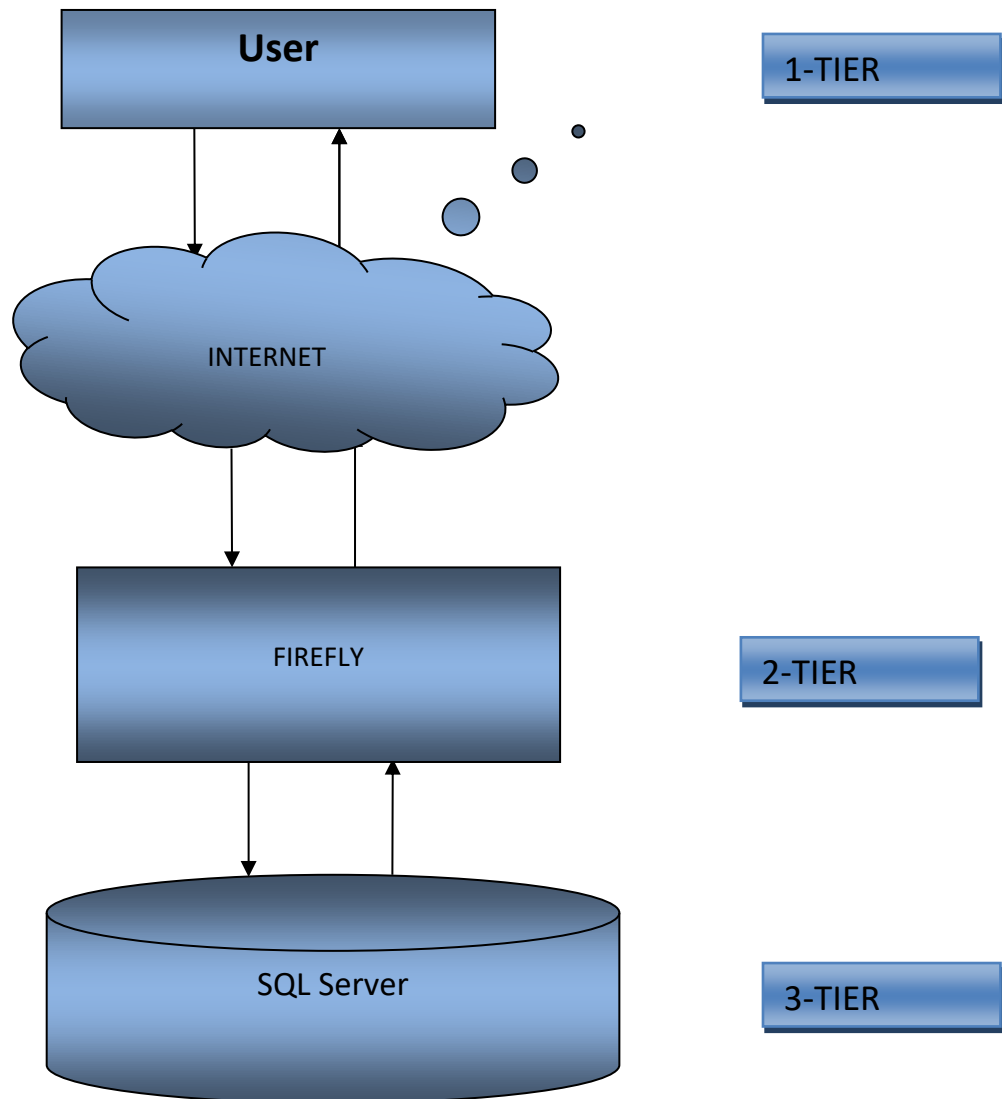OS: Operating System

HTML: Hypertext Markup Language

2. SYSTEM OVERVIEW

Online Auction is a website which helps the user to participate in the auction where seller can put up the bid and buyer can place the bid on products.
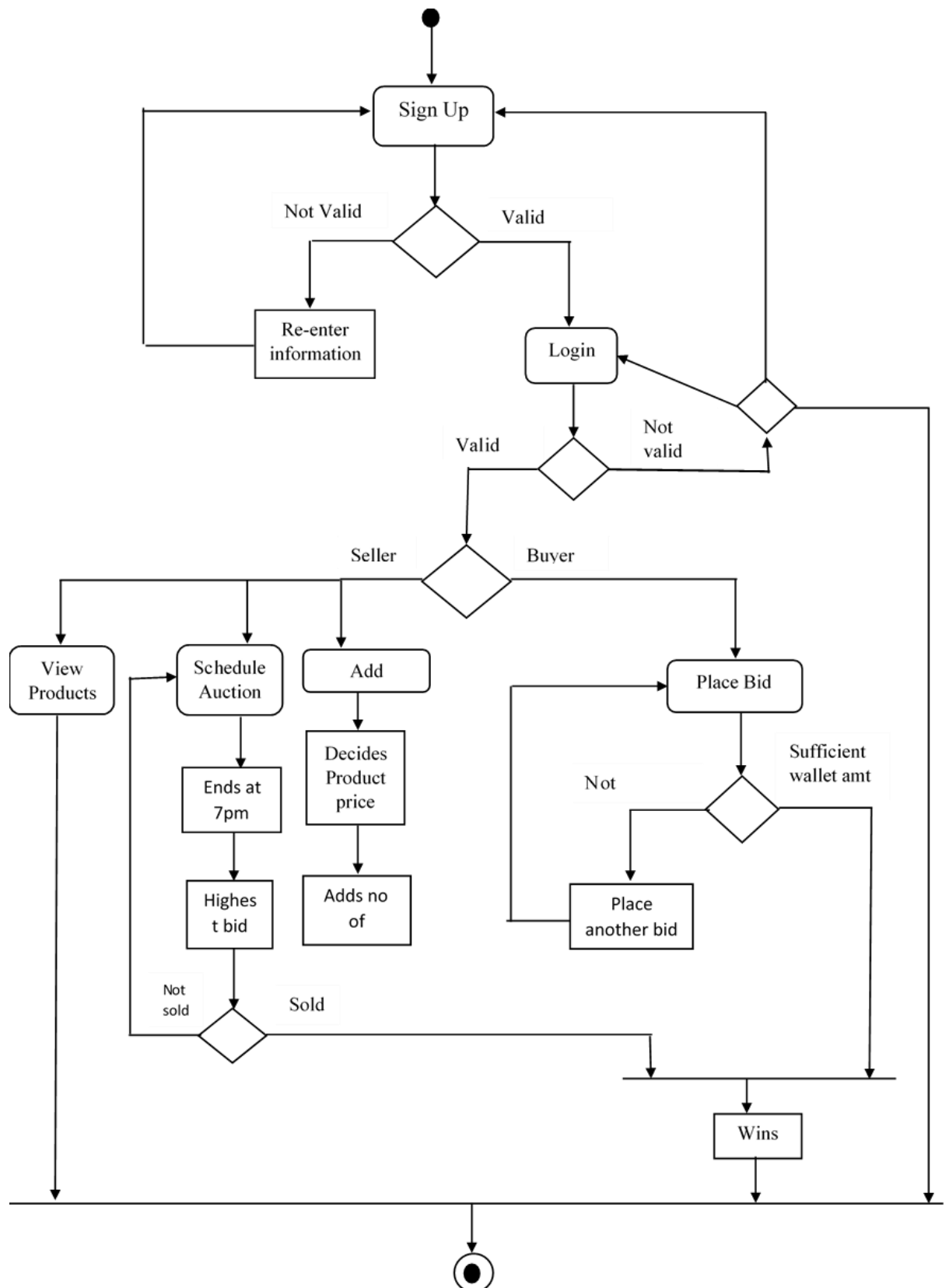
3. SYSTEM ARCHITECTURE

3.1 Architectural Design

3.1.1 High-level Design Overview

| User | | 1-TIER |

INTERNET

| FIREFLY | | 2-TIER |

SQL Server

3-TIER

3.2 Decomposition Description

3.2.1 Activity Diagram

4. DATA DESIGN

Bid Table

Field	Type	Constrains	Description
bidid	int	Primary Key	Id of the BID
buyerid	int	Foreign Key	Id of Buyer
pid	int	Foreign Key	Id of Product
bidvalue	decimal	Not Null	Value of the BID
bidquantity	int	Not Null	Quantity of Bid
status	Varchar	Not NUll	Tells whether Bid is placed or not

Category Table

Field	Type	Constrains	Description
cid	int	Primary Key	Id of Category
name	Varchar (40)	Not Null	Name of Category
description	Varchar (60)	Not Null	Description of Category

Product Table

Field	Type	Constrains	Description
pid	int	Primary Key	Id of Product
name	varchar	Not Null	Name of Product
cid	int	Foreign Key	Category Id
description	varchar	Not Null	Description of Product
actualprice	decimal	Not Null	Product's actual price
quantity	int	Not Null	Product's quantity
image	varchar	Not Null	Product image
sellerid	int	Foreign Key	Id of seller

Product auction Table

Field	Type	Constrains	Description
auctionid	int	Primary key	Id of auction
pid	int	Foreign Key	Id of Product
sellerid	int	Foreign Key	Id of seller
minbidvalue	decimal	Not Null	Minimum bid value
bidstartdate	date	Not Null	Start date of bid
bidenddate	date	Not Null	End date of bid
soldprice	decimal	Not Null	Sold price
status	Varchar(10)	Not Null	Status of the Auction

User Table

Field	Type	Constrains	Description
userid	int	Primary Key	Id of User
name	Varchar(40)	Not Null	Name of user
dob	date	Not Null	Date of Birth
Email id	Varchar(30)	Not Null	Email id of user
Phone no.	Varchar(15)	Not Null	Phone no. Of User
username	Varchar(40)	Unique	Username of user
password	Varchar(40)	Unique	Password of User
Address	Varchar(60)	Not Null	Address of user
walletamount	Decimal(10,2)	Not Null	Wallet amount of User
typeofuser	Varchar(15)	Not Null	Type of user