***Project Report and Specification***

***on***

***Online Auction System***

(CSE VI Semester Mini project)

2021-2022

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CSE (core) VI-Sem

Session: - 2021-2022

***DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING***

***GRAPHIC ERA DEEMED TO BE UNIVERSITY***

***1.1Brief Motivation***

I want to thank the Computer Science Engineering Department who provided me this opportunity to do the mini project. I also want to thank my teachers Mrs Parul Madan, Mr. Manish Sharma and Mr Pankaj Kumar who provided the lectures to understand all topics and taught me how to implement the codes and provided the knowledge on how to approach the project and to understand all basic concepts related to our project and provided us the road map to make project successful. Completing this project build a confidence in me that now I can perform more projects like this, and also helped me to understand Full Stack Web Development.

***1.2 About Project***

Online Auction System is a project where I built a fully functioning website in which a user can register himself or the self-existing user can login in his account, user can also bid on an existing item and sell an item, The current maximum bid will also be displayed, User can also access the Profile, Change Password etc.

***1.3 Methodology***

In this project, we applied the concepts of HTML, CSS, JavaScript, PHP, MySQL and developed a Dynamic website for an Online Auction System, which allows user to bid and sell products online through auction. Users can add new products to sell, along with the image, the end time of the sale and description of the product, users can check their bids, retract their bids.

***1.4 Languages Used***

**HTML**  - : HTML stands for Hyper Text Markup Language. It is the standard markup language for creating Web pages, It describes the structure of a Web page. It consists of a series of elements; HTML elements tell the browser how to display the content. We also learnt about the different tags of HTML such as - <form>, <input>, <a>, <button> etc.

**CSS**  -: CSS is used to define styles for your web pages, including the design, layout, and variations in display for different devices and screen sizes. There are three ways of inserting a style sheet: External CSS, Internal CSS, Inline CSS. Also learnt about the CSS Box Model, It consists of margins, borders, padding, and the actual content.

**JavaScript**  -: JavaScript (often shortened to JS) is a lightweight, interpreted, object-oriented language with first-class functions, and is best known as the scripting language for Web pages, but it's used in many non-browser environments as well. It is a client-side scripting language.

**PHP**  -: PHP is an acronym for "PHP: Hypertext Pre-processor" PHP is a widely used, open-source scripting language PHP scripts are executed on the server PHP files can contain text, HTML, CSS, JavaScript, and PHP code PHP code is executed on the server, and the result is returned to the browser as plain HTML PHP files have extension ".php". It is a Server-Side Scripting Language.

**MySQL -:** MySQL is a relational database management system This is an open-source, MySQL is free, It is ideal for both small and large applications, It is very fast, reliable, scalable, and easy to use MySQL is cross-platform language. MySQL is mainly used to INSERT, FETCH, UPDATE, DELETE contents from Database.

***1.5 Requirements of Project***

1.4.1 Hardware Requirement

* PROCESSOR: INTEL(R) i3 CORE(R) CPU @ 2GHz
* RAM: 4GB
* STORAGE: 10MB (min.)
* OS: Any OS with latest update

1.4.2 Software Requirement

* Visual Studio Code
* XAMPP Server
* Any Browser (I prefer Chrome)

***1.6 Modules of Website -:***

There are only various modules in this program. They are:-

1. **Home Module** -: This module acts as the home page or the first interacting module for the user as the user can browse through the products, but to bid on a product or sell a product, first they have to login or register first.
2. **Login Module** -: This module consists of two different Modules ‘LOGIN’ & ‘REGISTER’ which allows user to login if the username already exists in the database, otherwise it shows a message asking user to register first and re-directs to home page where user can register itself, also if the user tries to select the sell button to move to the sell page, it asks the user to login first.
3. **Sell Module** –: This module allows the user to add the item for auction by asking Product Name, Product Description, Asking Price, and Image after that the product will be added into ‘item’ database.
4. **Product Details Module** –: This module displays the product details including product name, image, description, current bid, number of bids, etc., user can bid on the product through bid button, if they bid less than the current bid , t displays a message showing they have to bid greater than the current bid. If the bidding is successful, a message is displayed indicating the bidding is successful.
5. **Account Module** –: This module is part of the navigation panel; it displays the user details such as username also allows user to change password. This module also displays the products the user has bid on, also the items the user has put for auction.

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