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Online Auction System

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ABSTRACT: An online auction project is a system that holds online auctions for various products on a website and serves sellers and bidders accordingly. The system is designed to allow users to set up their products for auctions and to register and bid for various products available for bidding.

Online Auction or the E-auction system project consists of the following features:

- User Login: User can register online and then access the system on authentication.
- Auction products: User can set up products for auction by providing details and minimum bid.
- Team Login : Login authentication for team.
- Player Login : Login authentication for players.
- Admin Login: Admin can login to system and view products as well as feedback and even delete other users/products.
- Auction time: User can set auction time on posting product for selling, the winner is declared after time elapse.

KEYWORDS: PHP(Server Scripting Language),Laravel,Model-View-Controller(MVC) architecture,Eloquent ORM,Payment Integration

I. INTRODUCTION

Online auction is becoming more and more popular in electronic commerce (EC). It has become the mainstream trading methods in consumer to consumer (C2C), such as eBay. The steady collaboration field and common concept of exchange may be formed in the cooperation of the Multi-Agent system(MAS), then the agents will have so much common knowledge in order to complete the tasks. The member of MAS has both cooperation and self-interest. Based on the analysis of the cooperation and competition of the participators in the online auction, the concept of overtime and history information is introduced. As existing incomplete information, the efficiency of the auction is low without consider the history information. This paper put forward a MAS flow frame and negotiation algorithms that make the bidders of the auction participate in the negotiation honestly and actively. Both the efficiency and transparency among the participators have been enhanced.

Motivation : e-auction has ushered a new era ensuring a transparent and a win-win situation for all stakeholders i.e. the buyers enjoy all the benefits of bidding online and seller can sell his commodity at his own price.

Online auctions are among the most influential e-business applications. Although there have been considerable efforts in setting up market places, online trading still lays in its early stages. Quite a few companies have started projects of their own, trying to improve their purchasing and sales channels. Materials and Methods: The most impressing concept of Internet market places is the conduction of online auctions. An online auction system holds online auctions for various products on a website. Results: It's place for buyers and sellers to come together and trade almost anything.

Problem Statement : In the present world of AI and data science, everybody is searching for the kind of platform which is easily accessible and cost effective. So we decided to implement a website in a way to bring benefits to both

buyers and sellers. In the website we've designed, there is an option for both commodity auction and cricket auction. Here the user product price is set by the seller who then adds the product to the database where the seller can bid for the product.

II. METHODOLOGY

PHP (Server Scripting Language) : PHP is a scripting language (it uses an interpreter) which is mostly run on a server. Javascript is also a scripting language, but it's mostly run on a client. Similarly, c and c++ are compiled languages (the final programs do not need an interpreter) and can run on client or server hardware. All four are programming languages.

The distinction between scripting languages and compiled languages resides in the methods used to run them, not the hardware on which they are run.

Laravel : Laravel is an open-source PHP framework, which is robust and easy to understand. It follows a model-view-controller design pattern. Laravel reuses the existing components of different frameworks which helps in creating a web application. The web application thus designed is more structured and pragmatic.

Laravel offers a rich set of functionalities which incorporates the basic features of PHP frameworks like CodeIgniter, Yii and other programming languages like Ruby on Rails. Laravel has a very rich set of features which will boost the speed of web development.

If you are familiar with Core PHP and Advanced PHP, Laravel will make your task easier. It saves a lot of time if you are planning to develop a website from scratch. Moreover, a website built in Laravel is secure and prevents several web attacks.

Model-View-Controller (MVC) architecture : MVC is an architectural pattern that separates an application into three main logical components: the model, the view, and the controller. Each of these components are built to handle specific development aspects of an application. MVC is one of the most frequently used industry-standard web development frameworks to create scalable and extensible projects.

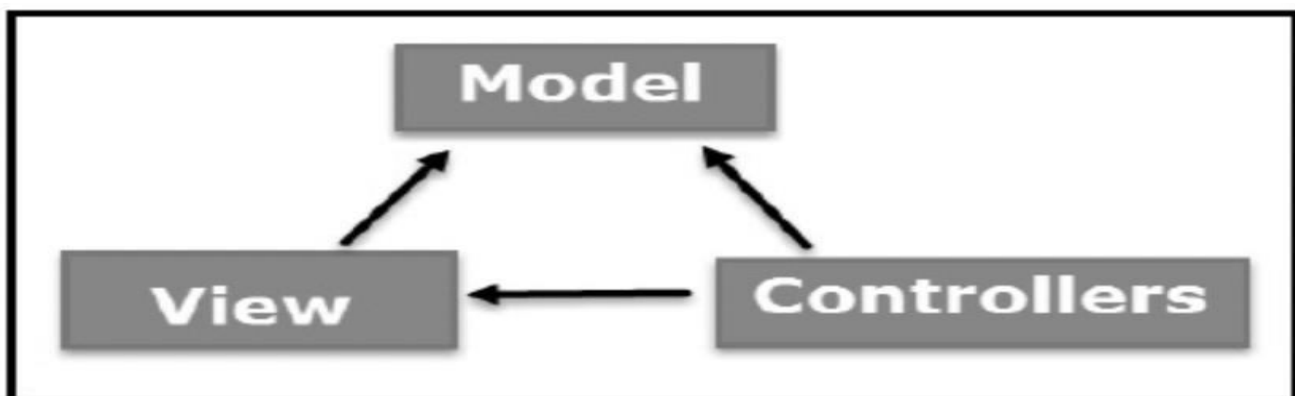


Figure 1.3

Eloquent ORM : The PHP Laravel framework is packaged with the Eloquent Object Relational Mapper (ORM), which provides an extremely easy way to communicate with a database. As developers need to create complex websites and other applications, they prefer a hassle-free and shorter development time. Laravel helps make development faster and provides an adequate solution to most problems encountered. Varying business requirements are addressed with faster development, as well as well-organized, reusable, maintainable and scalable code. It works with custom web applications as it can cater to multiple databases and perform common database operations.

III. IMPLEMENTATION

Commodity Auction :

- In the commodity auction the user can add product as well as user can bid by logging in and signing in.
- As soon as the product is added user can start bidding.
- As soon as more than one person starts bidding the bid price increases and the highest bid gets the product.
- Once a product is purchased by the buyer the amount gets deducted from the wallet
- The wallet is linked to the payment integration through razorpay.

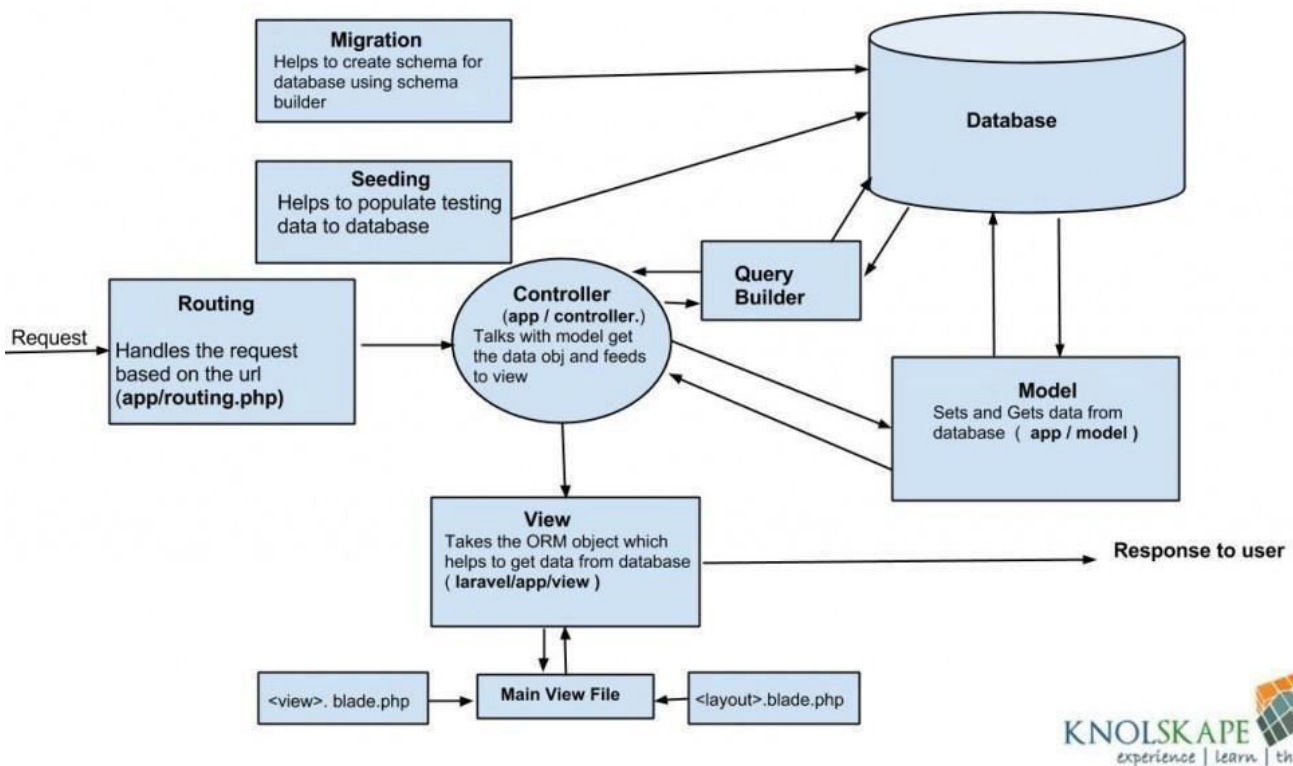


Figure 3.1 : laravel architecture

Cricket Auction :

- There are 8 teams in this auction
- Credentials is provided to 8 teams
- Login is required for auction
- Time slot is scheduled for auction
- A player is sold to the team with highest bid

127.0.0.1:8000/auction

Home Cricket Auction Commodity Auction About Online Auction

Your Details and Live Bidding




Player Name: MS DHONI
 Age: 41
 Nationality: India
 Skill-Set: batsman
 Phone Number: 7612345678
 Email: mahi@gamil.com

Total Matches: 300	Total Runs: 7621	Strike-rate: 159	50/100: 34/2
Total Innings: 235	Total Wickets: 0	Economy: 0	Fifer: 0

Base Price: **₹2000000** Current Bid: **₹0** Final Bid: **₹0**

Ends-In: 59m 16s [Bid Now](#)

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Sign In

Your Email

Password

Remember me

[Log In](#)

Or login with [f](#) [t](#) [G](#)


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Get connected with us on social networks: [f](#) [t](#) [G](#) [@](#) [in](#) [O](#)

<p>ONLINE AUCTION</p> <p>Best place to bid and get bid</p>	<p>CRICKET AUCTION</p> <p>Player_Registration</p> <p>Player_Login</p> <p>Team</p> <p>Team_Login</p>	<p>COMMODITY AUCTION</p> <p>Signup</p> <p>Login</p> <p>Register_Product</p> <p>Bid</p>	<p>CONTACT</p> <p>Bangalore, Karnataka</p> <p>info@onlineauction.com</p> <p>+91 1234567890</p> <p>+91 0123456789</p>
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Ongoing Auction

Product Name: Boat Bassheads 100 Black

Description

This is a boat device

Wanna Bid!

Don't Wait else bid will be over.Bid Now

Base Price: ₹699 ₹999 30% off	Current Bid: ₹1100	Current Bidder: HARSH
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Ends-In: 8m 16s [Bid Now](#)

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IV. CONCLUSION

Online auction technologies are revolutionizing the way we conduct business online. However, the proliferation of auction related research and the development of new auction security techniques are often limited by the uncooperative behaviour of the major online auctioneers. Due to the limited availability of quality auction data and literature on online auction software design, we have created our own online auction server to facilitate auction research. This paper describes our experiences with designing online auction software. We present a basic online model upon which more sophisticated auction scenarios can be crafted. We address website design, preliminary security, the database schema, transaction and timing issues, and also show how software bidding agents can interact with the model. Our model is grounded in object oriented techniques and is open source so that other researchers can expand upon our approach.

The online auction system has made customers more efficient and efficient in their behavior and has driven businesses to new heights, forcing many to make the adjustments and changes necessary to reach a new market of knowledgeable consumers. The rapid growth of e-auctions has led to an e-transformation in global retail infrastructure. Thanks to a growing internet and higher incomes and a more savvy population, despite many obstacles. Secure online payments, good for electronic stores, return policies and exciting discounts help you understand the benefits of the auction system.

A better understanding of the behavior of the consumer online auction system can help companies gain more online customers and increase their e-business revenue. At the same time, consumers are more inclined to make purchases online, as they realize the benefits of e-auction. With the popularity of the Internet, the number of Internet users continues to grow and more and more Internet users are becoming online users, even regular online buyers.

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