iJRASET
International Journal For Research in Applied Science and Engineering Technology



INTERNATIONAL JOURNAL FOR RESEARCH

IN APPLIED SCIENCE & ENGINEERING TECHNOLOGY

Volume: 5 **Issue:** XII **Month of publication:** December 2017

DOI:

www.ijraset.com

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International Journal for Research in Applied Science & Engineering Technology (IJRASET)
ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor :6.887
Volume 5 Issue XII December 2017- Available at www.ijraset.com

Bizmart-Connecting Businesses.

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***Abstract**: As businesses are moving ahead with the technology, online business came into picture and it is quite difficult for small scale businesses to make their business online. So, there is need for some platform that can help them to get it done in their own way. And a platform is also required for companies who want their project done by some other person outside their company. Hence introducing BizMart makes everything handy and efficient, for the easy conversation between users, the chatting system is also included in system . BizMart can also be used by employees who had been laid-off, who cannot find full time employment. Thus, BizMart is useful for small scale businesses and also for corporate businesses for developing their projects from other developers.*

***Keywords**: Businesses; freelancer system; Corporate Businesses; Chat Systems*

I. INTRODUCTION

Online revolution is the one which is affecting the various businesses, which are also offline so there is a need, for small businesses to be connected online and to be known in the market. Keeping this point in mind we develop a portal in which small businesses can come online and it is good opportunity for developers to do some projects as part time job in their weekend time. This portal's aim is to connect different business through this portal which will be eventually profitable to all. Bizmart is quite similar with other freelancing websites but the additional feature that Bizmart offers is that it provides a similar portal to sellers and buyers. This portal also provides the facility of chatting to provide a good communication and transparency among the users. Bidding is incorporated in the portal to ensure users of lowest possible prices .Once completed the proposed system; it would be one of the very few premiere platforms for bidding on projects in India. Online Bidding system(OBS) begins when the buyer signs in, buyer will post the project that they need. It is necessary for buyer to list item, place item in a specific category, provide detailed description, set a minimum bid price and select the time period of the auction. Seller also must register to be OBS member. They can bid the products from any type. Once a seller finds a product that they want to buy, they can place a bid request on the system, soon the buyer will be notified bid status, and they are free to bid on it. Once the bidding ends, the OBS system will suggest the winner on the basis of client's decision. Based on client's decision the project is assigned to a particular buyer and OBS will inform both buyer (bidding winner and loser) and seller.

II. BIDDING MECHANISM OVERVIEW

Bidding system begins when the buyer signs in, buyer will register the item that they want to buy. They needs to list item, place item in a specific category, provide detailed description, set a minimum bid price and select the length of the auction. Seller also must register to be OBS members. They can bid the products from any type. [1]

Once a buyer finds a product that they want to buy, they can places a bid request on the system, soon the seller will be notified bid status, and they are free to bid on it. Once the bidding ends, the OBS will suggest the bidding winner of that product to buyer. OBS then informs both buyer (bidding winner and loser) and seller.[1]

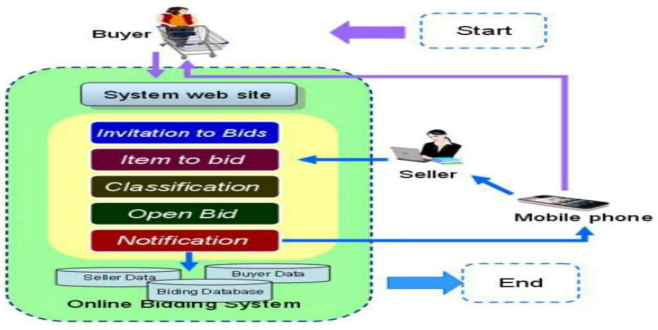


Figure 1: Online Bidding System

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From system seller and buyer deal with each other directly. At determination stage OBS system is no longer involved, but buyers and sellers can request each other information from OBS.[1]

III. REAL TIME CHAT INTERFACE

Chat application is a feature or a program on the Internet to communicate directly among Internet users who are online or who were equally using the internet. Chat applications allow users to communicate even though from a great distance. Therefore, this chat application must be real-time and multi platform to be used by many users. Because they does not always rely on outsiders, it is important here to develop this chat application for everyone to clear their queries.[2]

This chat application in the manufacture begins with the collection of relevant data that will be displayed in the web and mobile versions. The programming language used to build server is Node.js with express framework and MongoDB database. This chat application is an application that is used to communicate and developed to support especially the city of Bandung and the Indonesian people in general. This chat application can be built using Node.js, Socket.io, MongoDB and java. But this can be implemented using php and MySQL. The similarity in transactions in php mechanism does almost resemble to MongoDB. This could resolve many of the problems the customer faces while

Bidding on or buying particularsoftware. Decreasing discrepancy amongst the user was the main reason to introduce this module.[2]

A. Methodology

1) Project uses Prototype Model: The prototype model enables the user to divide the entire project in various parts and accordingly distribute them in team members, so that work can be done in faster and efficient way.

In this project i.e. BizMart has also followed the prototype approach. Following are the major modules in Bizmartare as follows:

a) Client & developer module.
b) Buyer & supplier module.
c) Chat System.
d) Examination Module.
e) Verification of supplier.

Bizmart include various modules which interlink together and provide the functionality.

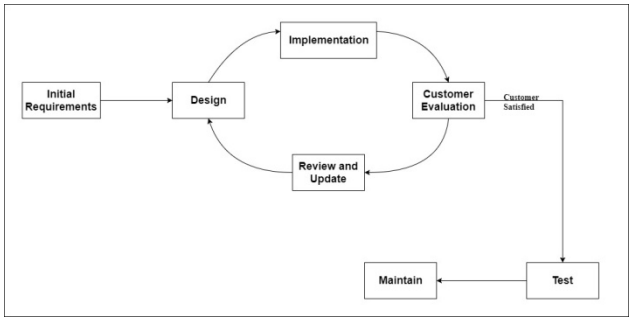


Figure 2: Prototype Model

The Client& developer module in bizmart is introduced to increase a business between client and developers with the help of bidding system. This module majorly deals with the project posting and assignment. The Buyer & supplier portal, is introduced to increase the business between the small scale businesses with the help of bidding system.[1] The chat system is introduced, so that the users should communicate with each other to get a proper developer or supplier. The Examination module is introduced, to give the ratings to the developer according to the test score. Verification of supplier is done with the help of BID (Business Identity) number of supplier and accordingly the selection of that supplier would be done.[2]

B. Test Mail Server tool (use for notification)

Test Mail Server Tool is a full featured mail (SMTP) server emulation to test mail sending capabilities of a web or desktop application or to preview messages before they are actually sent. This is a very useful tool for web programmers. The program listens on localhost on a SMTP port (usually 25, may be changed). Points of interest

1) Web developers -- test and debug mail sending features of your web site

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2) Other users -- add mail preview feature to any program.
3) Various benefits of this tool are small size, ease of use, streamlined install, and easy uninstall.

C. Bidding System

Before bidding on product/ project supplier/developer has to register in this portal which will be stored in registration table .Registration table contains the detail of user and all the users will be uniquely identified with the help of user_id which is primary key suppose there will be two user A and B .A is registered as developer and B is registered as client.
[1]
When B post project information which he wants to made, an email is send to all the developers
and developer will get the information about the project .Project table contains the information of all the projects which are posted and every project is differentiated with the help of project_idBid table contains the attribute which are Bid_id,project_id,A_id,b_id and status .[3]

D. Chat System

After bidding is started the chat system is initiated, client and developer can use this system to discuss about project, all this information is stored in chat table .Chat table should have atleastclient_id and developer_id and to differentiate the messages there will be msgid.
The messages will be displayed based on this condition:[sender_id(A) and receiver_id(B)] or [sender_id(B) and receiver_id(A)]

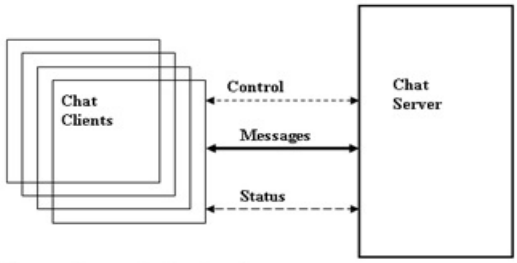


Figure 3: Chat System

To refresh the page automatically we are going to use Ajax. Asynchronize java script and xml is not a programming language or a tool, but a concept. Ajax is a client-side script that communicates to and from a server/database without the need for a post back or a complete page refresh. Ajax is method which is used to exchange data with a server, and update parts of a web page – without reloading the entire page. In a more sense, it refers to the use of XmlHttp Request objects to interact with a web server dynamically via JavaScript.[3]After discussing about the enquiry, if client is unable to decide to whom he/she assign the project then this system will automatically select the winner on the basis of ratings, price and time taken to deliver the project by implementing the complex queries and triggers if the above conditions occurs.

IV. ALLOCATION AND NOTIFICATION:

Mail server is the transfer agent where it gives the emulation where the users of the system get the notification whenever the product is being modified. Test Mail Server Tool is a full featured mail (SMTP) server of a web or desktop application or to preview messages before sending. This is very useful tool for programmers who need mail server for tests without installing one. Simple Mail Transfer Protocol can also be used in different port. All mail is automatically stored and optionally opened with your mail client. It initiate mail queue processing on a remote server that is Remote Message Queue Starting. Post Office Protocol and Internet Message Access Protocol are unsuitable protocols for relaying mail by intermittently-; that means they are designed to operate after final delivery, when information from the mail envelope has been removed, A typical example of sending a message via SMTP to two mailboxes is In this example, the conversation parts are prefixed with *S* and *C,* for *server* and *client*, respectively; these labels are not part of the exchange.)The server's positive reply to the end-of-data implies that the server has delivered the message. A message can be reverted again .If there is a communication failure at this time, e.g. due to a power shortage:

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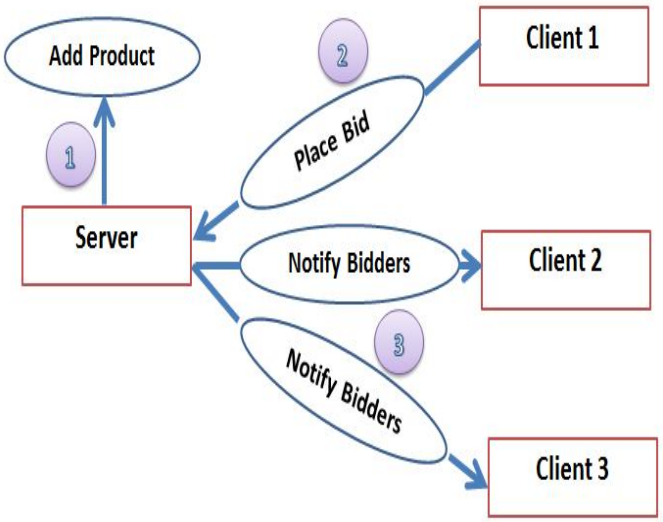


Figure 4:Notification System.

now the sender has received many replies, it must assume the message was not delivered to the particular receiver. After the secure connection, it should be acknowledged that message has been delivered to it. Thus, during this time span, both agents have active copies of the message that they will try to deliver.[2]

Client authentication:

Simple Mail Transfer Protocol servers require authentication of clients, instead of restricting access by location as described earlier. This system is friendly to mobile users and allows them to choice of configured outbound SMTP server.

V. CONCLUSION

Understanding the needs of customer and delivering their requirements increases the customer trust on the system. Bizmart gives an opportunity to sell and promote the products to various suppliers which are new in market and to those who are local based suppliers. Bizmart understands the needs of customer and provide support in finding the great match for the desired product from best suppliers by presenting bidding and chatting modules, eventually growing in every business domain to increase productivity and efficiency for the various people in all fields of businesses.

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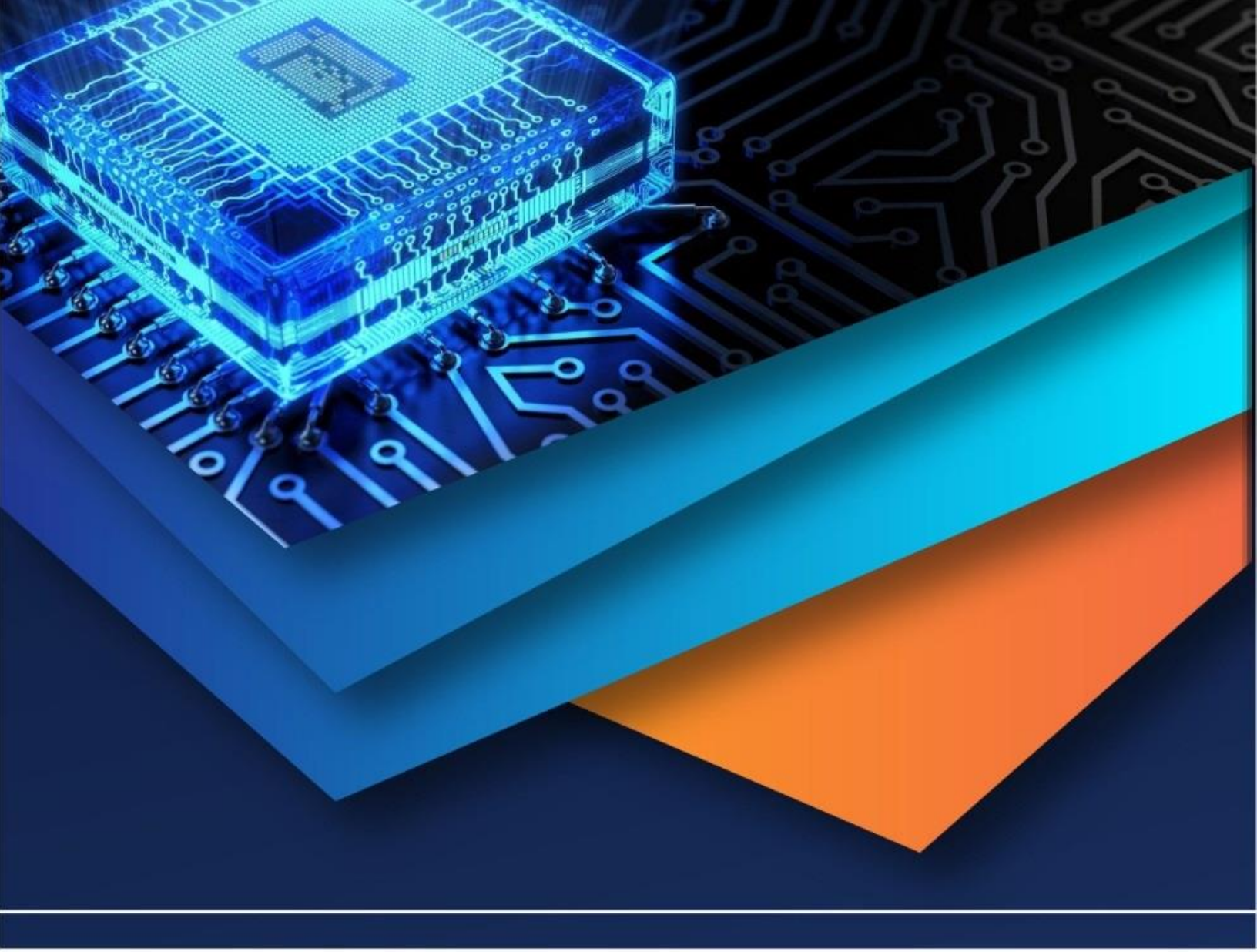
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