VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi – 590 014

Web Technology Mini Project Report On

"AGRIBID"

Submitted in Partial fulfillment of the Requirements for the VII Semester of the Degree of

Bachelor of Engineering

In

Computer Science & Engineering

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CERTIFICATE

Certified that the Web Technology Mini Project Work titled **'AGRIBID'** has been carried out by **Ms. KOTIAN RAKSHITHA RAMESH** (**4MW18CS400) and Ms. SHREE VIDYA RAO A (4MW18CS600),** who are the bonafide students of Shri Madhwa Vadiraja Institute of Technology and Management, in partial fulfillment for the award of **Bachelor of Engineering** in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi during the year 2020-21. This Web Technology Mini Project Report has been approved as it satisfies the academic requirements with respect to the project work guidelines prescribed for the said Degree.

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External Viva

Name of the Examiners: **Signature with Date**

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KOTIAN RAKSHITHA RAMESH

SHREE VIDYA RAO A

ABSTRACT

India is an agriculture based country. The main livelihood of the majoritarian population here is through farming who dwell in villages and feed the whole country. Food is one of the basic necessities of a human being, which is fulfilled by the farmers. However they fail to get proper price of the stock they sell in the market. Hence, they are deprived from getting profits for their stock. AGRIBID helps them in getting proper price for their stock and even get profit for their efforts.

In a city many people invest in shares sold by the companies, they buy shares in highest quoted price by the way of biding. In large stock markets such as BSE and NSE stocks are sold to the prospective shareholders on bid price from this the company gets profits through shares which are sold through a highest bid price.

Here, we think of a similar scenario for the farmers in which they can get maximum pricing for their outcomes. This idea is AGRIBID stock trading in which farmers can ask for the highest bid price for their stock to be sold and can earn profit. Also, farmers can register themselves and have various other facilities such as contact to the customers or wholesalers, price notifications etc.

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Chapter 1

INTRODUCTION

The farmers who grow crops according to the season and fertility of the soil, after growing the crops they accumulate the crops, further process and pack them and contact the wholesale vendors regarding the availability of stock. The wholesale vendor first asks the price to the farmer who tells the price at which he/she can grade at. The wholesale vendor aiming for his own profits negotiates with the farmer regarding the price. The poor farmers sacrificing their profits generally accept the price quoted by the wholesale vendor. So, the farmer sell his stock at low prices due to some unfavorable conditions such as financial problems, unavailability of wholesale vendors or market etc.

Some farmers who live very near to the cities bring their stock directly to the wholesale markets and sell their stock to the retailers and end customers. But for the farmers who live in the remote areas, it is not possible for them to come to the cities do frequently and sell their stock directly in their quoted price. Hence, they have no other option to contact the wholesale vendor for selling their products in the market.

When the crops are grown in a healthy way and ready to be sold to the wholesale vendors they negotiate with the farmers and quote a rate even below the quoted price of the farmer, giving no choice to the farmer to sell the stock at the desired rate to the wholesale vendors.

Keeping this in mind the various issues which a farmer faces such as poor financial conditions, etc for these problems, the farmers expects to get profit. But farmer has to agree upon the low price quoted by the wholesale vendors due to some situation as absence of unreachability to the market, unavailability of the wholesale vendors etc.

This happens due to the negotiation and saving mentality of the buyer. The seller quotes the high price aiming at his high profit but the buyer negotiates at low price considering their savings due to the poor conditions of the farmers they are obliged to accept the low price from the wholesale vendors with expectation of some income. Hence, the farmers are unable to make profits.

Despite of all the hard work and patience to grow the stock, farmers play a major role in the agriculture life cycle but still they fail to get profit to their poor conditions.

Chapter 1

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Chapter 2

REQUIREMENT ANALYSIS

2.1 Domain Understanding

The main objective is to develop a website using HTML, CSS for the front-end design. Also using the php for the back-end connection.

2.2 Classification of requirements

2.2.1 User Requirements

An easy method to visit the site and simple interface where they can post a question or an answer.

2.2.2 Requirement Collection

Some of the tags and styling elements that are implemented in our project are referred by using the books and website mentioned in reference.

Chapter 3

SOFTWARE REQUIREMENT SPECIFICATION

3.1 XAMPP:

XAMPP is a software distribution which provides the Apache web server, MySQL database(actually MariaDB),PHP and Perl (as command-line executables and Apache modules) all in one package. It is available for Windows, MAC and Linux systems. No configuration is necessary to integrate PHP with MySQL. Once XAMPP is installed, it is possible to treat a localhost like a remote host by connecting using an FTP client.

XAMPP description is given below:
X: Cross platform - XAMPP is cross-platform. Cross-platform means it can be run on any computer machine and with any operating software or it is compatible with all types of computer hardware and software.

A: Apache server - XAMPP includes Apache server. This server is required for running most of the application or software like PHP. It is the most usable web server software. It is popular because it is quick, reliable and safe. It is open source and free touse.

M: MariaDB - Maria DB is the popular database server which is open source and developed by original developers of MySQL.

P: PHP - XAMPP supports PHP. PHP stands for Hypertext Processor(earlier it was known as Personal Home Page). It provides an environment for web development. This is a server-side scripting language.

P: PERL - PERL(Practical extraction and reporting language) is a high-level general purpose language. It is used in developing the web application.

3.2 HTML:

Hypertext Markup Language (HTML) is the standard markup language for creating web pages and web applications. With Cascading style sheets and JavaScript, it forms a triad of cornerstone technologies for the World Wide Web. Web browsers receive HTML documents from a web server or from local storage and render the documents into multimedia web pages. HTML describes describes the structure of a web page semantically and originally included cues for the appearance of the document.

The text between <html> and </html> describes the web page, and the text between <body> and </body> is the visible page content. The markup text <title> and </title> defines the browser page title.

In general case, the extent of an element is indicated by a pair of tags: a “start tag” and “end tag” . The text content of the element, if any, is placed between these tags.

3.3 Cascading Stylesheets(CSS) :

Cascading Style Sheets (CSS) is a stylesheet language used to describe the presentation of a document written in HTML or XML. CSS describes how elements should be rendered on screen, on paper, in speech, or on other media. It is used to style and lay out web pages for example, to alter the font, color, size, and spacing of your content, split it into multiple columns, or add animations and other decorative features.

3.4 PHP :

PHP is a server-side scripting language designed specifically for web development. PHP can be easily embedded in HTML files and HTML codes can also be written in a PHP file. The thing that differentiates PHP with client-side language like HTML is, PHP codes are executed on the server whereas HTML codes are directly rendered on the browser.

3.5 PhpMyAdmin

PhpMyAdmin is open source free software, designed to handle the administration and management of MySQL databases through a graphic user interface. Written in PHP, PhpMyAdmin has become one of the most popular web-based MySQL management tools. PhpMyAdmin comes with detailed documentation and is being supported by a large multi-language community. PhpMyAdmin's ever growing list of features supports all commonly used operations such as browsing, dropping, creating, altering MySQL databases, tables, fields and indexes. Also, PhpMyAdmin allows to manage MySQL users and user privileges.

Chapter 4

ANALYSIS AND DESIGN

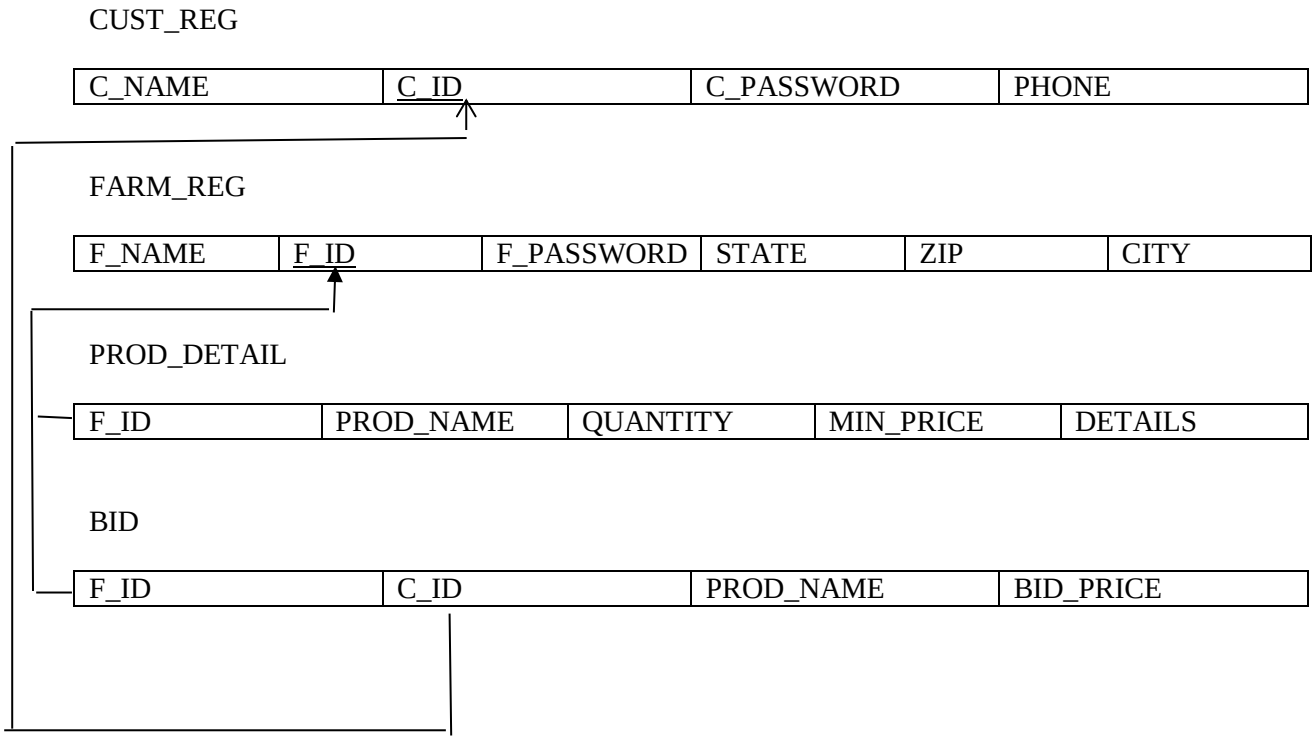

Fig 4.1 Schema of AGRIBID

- Initially the user has to select whether he is a farmer or a customer and he has to register with his details in the login form.
- If he is a farmer he has to put his crop name, quantity, price that he want to sell the product.
- Once the customer logins into the customer page he searches for the product that he wish to buy. The consumer can select the product based on location, price, quantity of the product specified from the farmer and then he can bid the farmers product that he want.
- Once the customer bid is done then the farmer selects the highest bided customer or the person he wish to sell the product and he can send the response message to the selected consumer that he is ready to sell the product, the customer can come and take the product from the selected farmer.

Chapter 5

TESTING AND RESULTS

5.1 Definition

Web testing in simple terms is checking your web application for potential bugs before it's made live or before a code is moved into the production environment during this stage issues such as that of web application security, the functioning of the site, its access to handicapped as well as regular users and its ability to handle traffic is checked.

5.2 Types of web testing

There are various kinds of testing available. They are:

5.2.1 Functionality testing:

This is used to check if you product is as per the specifications you intended for it as well as the functional requirement you charted out for it in you developmental documentation. Testing activities includes:

5.2.1.1 Test all link in your webpage are working correctly and make sure there are no broken links.

5.2.1.2 Test Forms are working as expected.

5.2.1.3 Test HTML and CSS to ensure that search engine can crawl your site easily

5.2.2 Usability testing:

Usability testing has now become a vital part of any web based project. It can be carried out by tester like you or a small focus group similar to the target audience of web application.

5.2.2.1 Test the site Navigation

5.2.2.2 Test the content

5.3 Results of Testing

We have performed the necessary testing on this project. Our project contains no errors. It has a secure login and all links are working properly. It has a user-friendly interface. If the farmer or customer enters other than his id and password then it will not be accepted.

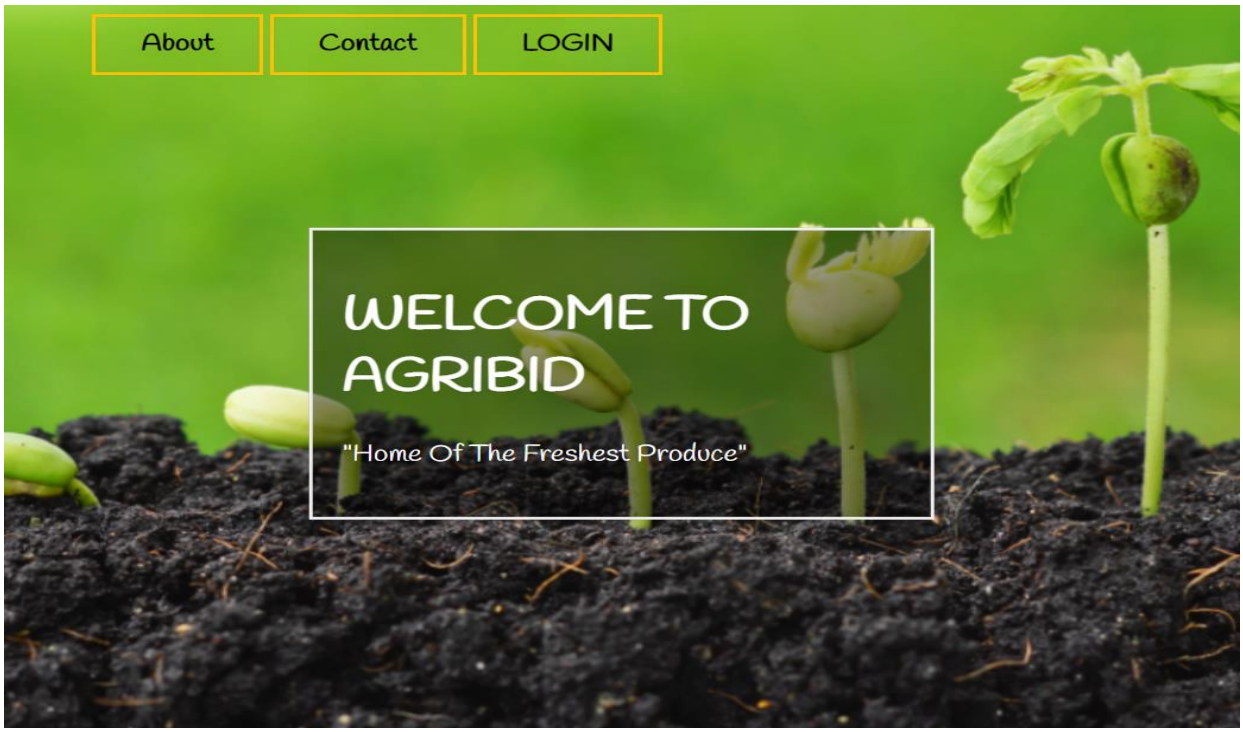

Fig 5.3.1 Home page

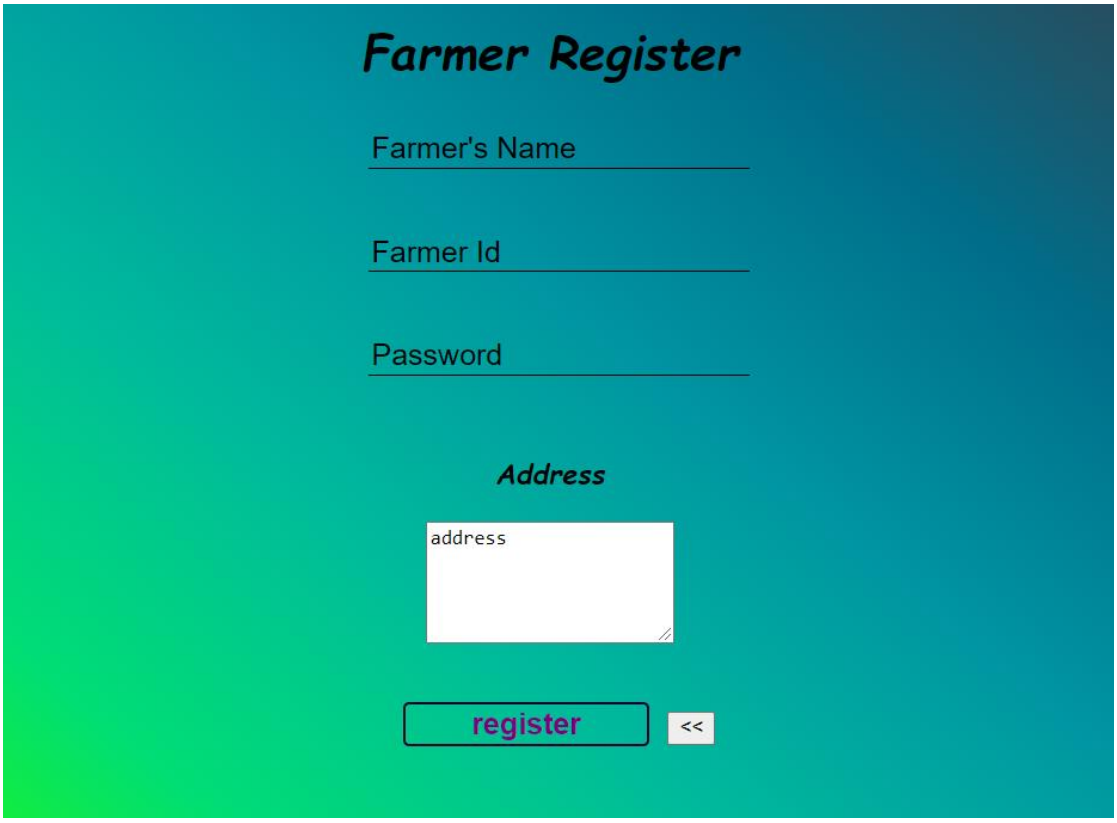

Fig 5.3.2 Farmer register page

Fig 5.3.3 Farmer login page

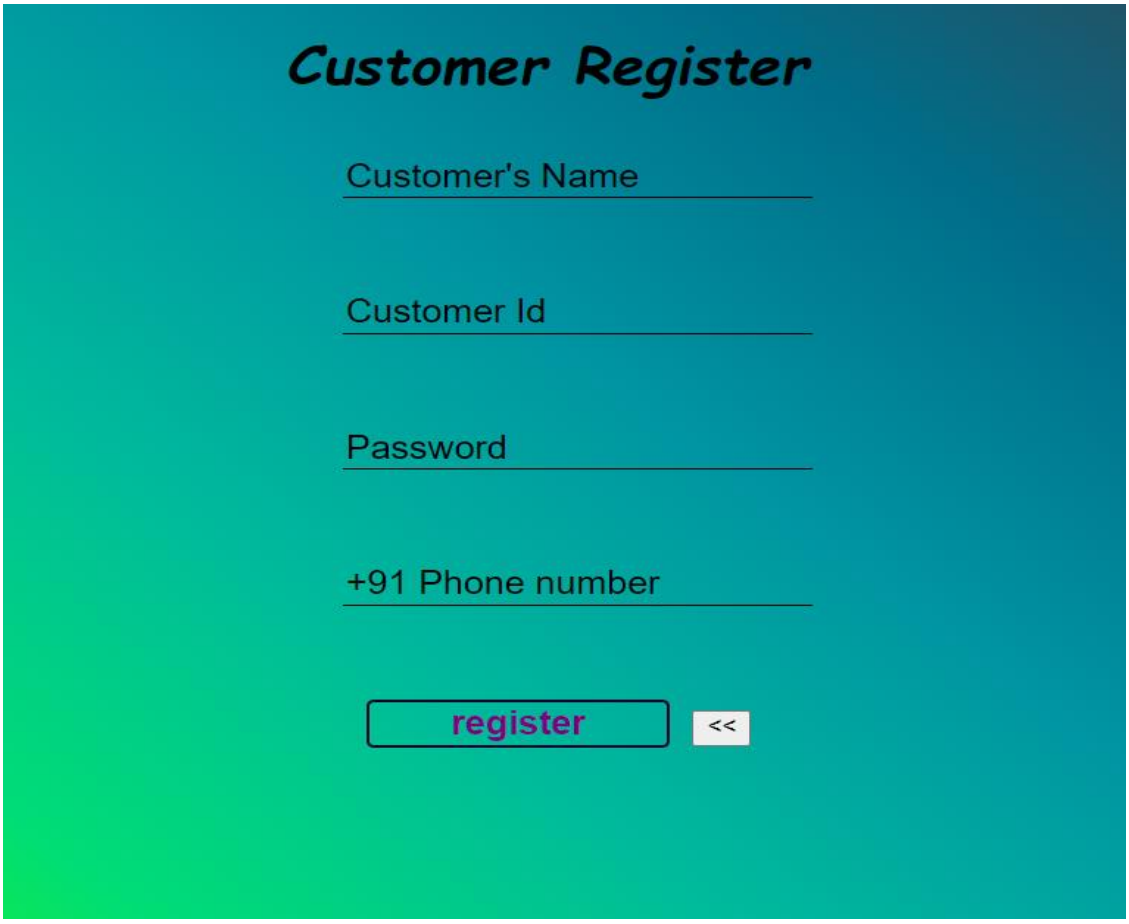

Fig 5.3.4 Customer register page

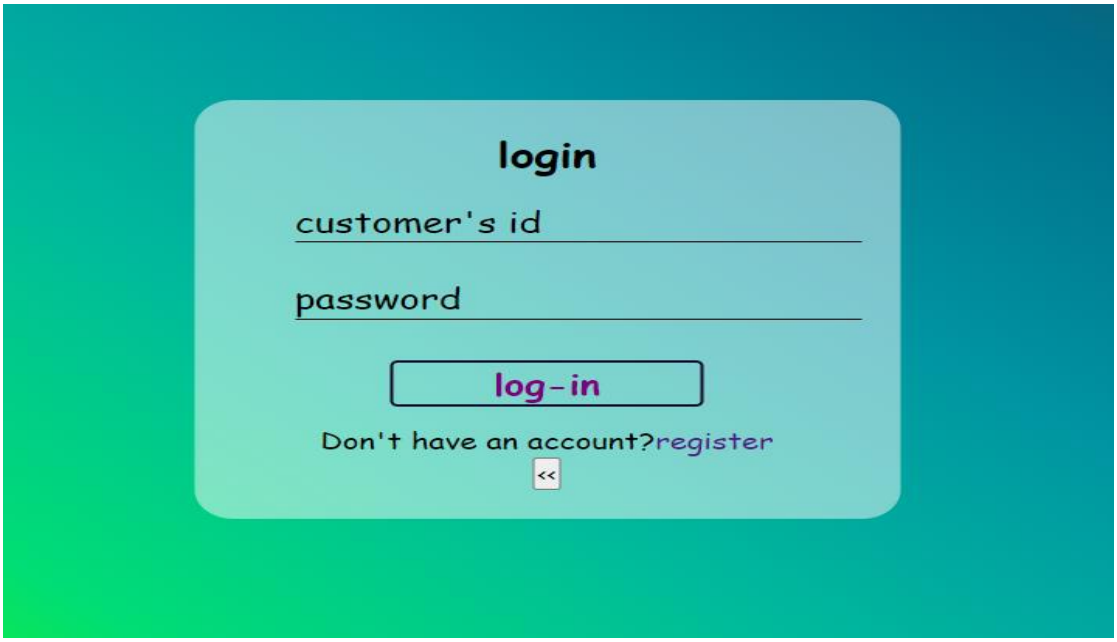

Fig 5.3.5 Customer login

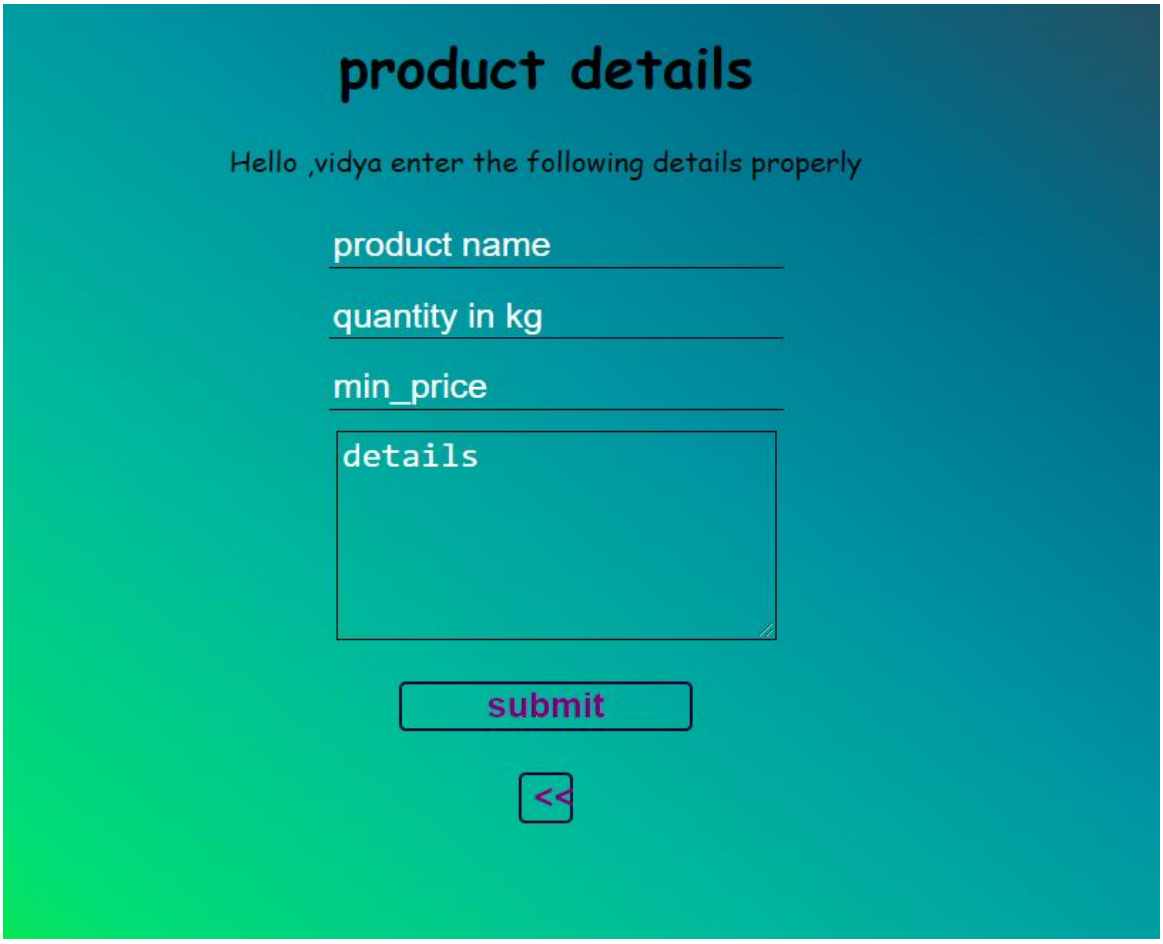

Fig 5.3.6 Product details entry

Fig 5.3.7 List of all bids

Fig 5.3.8 Bidding

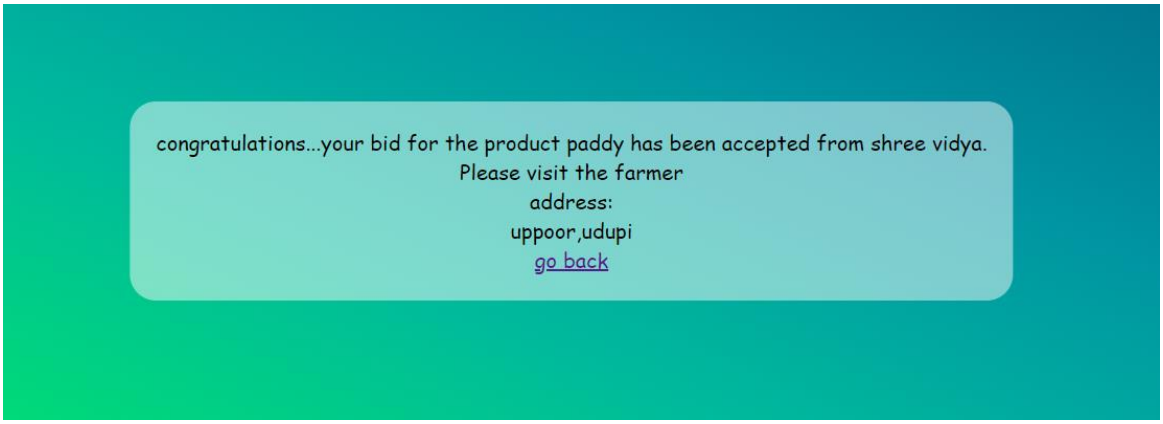

Fig 5.3.9 Bid result

CHAPTER 6

CONCLUSION AND FUTURE ENHANCEMENTS

6.1 Conclusion

AGRIBID helps the farmers to get the best profits. The farmer has to upload the product with minimum cost. The customer who is willing to buy that product he can bid with his bidding price. Then the farmer will select the highest price bided customer and sell the product.

The project is completely related to the farmers and the customers. This would benefit both equally. Farmers will get the complete price for his produce. Customers have to pay only the price of the product excluding taxes.

This application eliminates the middleman hence it's a direct communication between the farmer and the customer hence providing the best profits to the farmers and the affordable price to the customer.

6.2 Scope of Future Work

The review for the particular farmer's product will be added and also the feature of uploading the product image can also be done. Accepted message can be sent to the customer's email-id or can send sms via mobile number.

Future work of this project includes the integration of Big Data technologies and to scale the product to the maximum extends and also working towards integrating the logistics and payment gateway solutions.

References

1. https://www.w3schools.com
2. https://www.phppoint.com
3. Fundamentals of Web Development – Randy Connolly, Richardo Hoar