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**Submitted To:** Dr. Anand Parkash Gupta and Mrs. Ruchi Gupta respectively.

**Team Details:**

Our Team has a total strength of 5 members which includes:

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PROJECT MODULES

Our Project was divided into 3 modules during its entire span of approx. 2 months.

Module 1 was Frontend Development which was precisely handled by Chirag singh, Esha gupta and Arvind Tomar.

Module 2 was Backend Development which was mainly looked after by Keshav bansal and shivam agarwal.

Module 3 was the Final touch after which the complete Project Report and Presentation were presented by all team members respectively.

It was through the collective effectiveness of the hard work of all the team members that led to the completion of the Project within a span of 2 months respectively.

INDEX

Contents

1. Title of the project ........................................ (4)

2. The Problem Statement ................................ (4)

3. Reason for selecting topic ............................. (4)

4. Objective of the project ................................ (4)

5. Future Scope ................................................. (5)

6. Methodology ................................................. (5)

7. Hardware and Software used ........................ (6)

8. Contribution .................................................. (7)

9. Scope for extension ....................................... (7)

10. Conclusion ................................................... (7)

**TITLE OF THE PROJECT:**

*GRAIN E-COMMERCE MARKET*

**THE PROBLEM STATEMENT:**

In today’s fast pacing competitive world, we all are busy doing hard work and earning money. Farmers really worked a lot on buying and selling crops at good prices. What if we get a quick solution of buying crops at just one click and can save time to improve your productions with comparing various regions prices.

So, we claim that our website, ‘Grain E-commerce Market’ will certainly solve this problem by providing a platform to farmers where they can find all their crops and pulses with reasonable rates . There are less chances of risk of loss because all prices are authorised by government officially.

So, in a nutshell, GEM is a complete platform for farmers to ease their life so that they can enhance their knowledge and connect through network, and can provide sufficient time to themselves to enhance their productivity.

**REASON FOR SELECTING THE TOPIC:**

Reason for choosing this topic is to provide a platform to farmers where they can find all the resources relating to their need of buying or selling crops and other pulses. We are building a Web browser-based application which will be responsive as well so that farmers can access products on their devices too.

**OBJECTIVES OF THE PROJECT:**

The main objective of the Project is to provide a platform where farmers have improved livelihood. They have online access to information related to crops and other pulses.

They will be able to receive better options and better rates of crops because they can compare market prices of various regions and understand the reasonable prices.

We believe that the Internet should not only be a place for Entertainment and social media, but also be used as a tool to enhance the productivity and connect all the farmers through internet.

**FUTURE SCOPE:** The future scope of this Project is it should move farmers from old-style bargaining to the exercise of choice. As consumers, we have moved from haggling the price of one kilo rice with the local grocer to shopping at the supermarket where with the price is fixed but we can see all available choices and take an informed decision. If we don’t like one supermarket, we can go to another. Farmers too need a transparent market where the selling decision becomes matter of unilateral choice rather than give and take between two parties.

**METHODOLOGY:**

We are building a website which will help farmers to have all the crops and pulses at one platform to help them through their hard life. So, we will follow the following Methodology:

1) Firstly, we will make the Home page and all the details that how this app will work which will be visible to the user through Frontend Technologies. The pages will be clear and attractive and responsive to the users.

We will add different sections in the navigation bar regarding different types of crops like *wheat, rice, maize, millet ,paddy* and pulses like *arhar , moong, urad , rajma , masoor , chana, soyabean, etc.* so we will be having pages for online transactions section also.

2) After the completion of all the Frontend related stuff, we will move to work on the backend and database part of our website. The search bar will be made using Php.

3) Lastly, we will provide a final touch to our Project with Login and Signup pages which will serve as a welcoming page to our users.

**HARDWARE AND SOFTWARE USED:**

***Front-End Technologies***

* ***HTML***  HTML stands for Hypertext Mark-up Language. It is the standard mark-up language for documents designed to be displayed in a web browser.
* ***CSS***  CSS stands for Cascading Style Sheets. CSS describes how HTML elements are to be are to be displayed on screen, paper, or in other media. CSS saves a lot of work; it can control the layout of multiple web pages all at once. External style sheets are stored in CSS files.
* ***JavaScript***  JavaScript is a web-based scripting language that has been widely used in web application development in particular , it is often used to add a variety of dynamic functions to web pages, providing users with a smoother and more pleasing browsing experience. In fact, all modern HTML pages use JavaScript.
* ***Bootstrap***  Bootstrap is a framework to help you design websites faster and easier. It includes HTML and CSS based design templates for typography, forms, buttons, tables, navigation, modals, image carousels, etc. It also gives you support for JavaScript plugins. Bootstrap’s responsive CSS adjusts to phones, tables and desktops

***Back-End Technologies***

* ***MangoDb :*** MongoDB is an open-source document database and leading NoSQL database. MongoDB is written in C++. This tutorial will give you great understanding on MongoDB concepts needed to create and deploy a highly scalable and performance-oriented database.
* ***Node.js***  Node.js is a very powerful JavaScript-based platform built on Google Chrome's JavaScript V8 Engine. It is used to develop I/O intensive web applications like video streaming sites, single-page applications, and other web applications. Node.js is open source, completely free, and used by thousands of developers around the world.
* ***ReactJs :*** React is a library for building composable user interfaces. It encourages the creation of reusable UI components, which present data that changes over time.

* ***Express.js :*** Express is a minimal and flexible Node.js web application framework that provides a robust set of features to develop web and mobile applications. It facilitates the rapid development of Node based Web applications.

**CONTRIBUTION THE PROJECT WOULD MAKE:**

Our Project is centred on farmers . GEM will provide various resources to buy crops and take the advantage of platform to increase their productions . It could be used as a helpful tool to utilize time, as it takes lot of time to go and search at different places for better rates and availability according to their needs. If the proper quantity is not available it could end up getting their time and energy wasted. We would provide all the crops and pulses available at one destination, so that farmers wouldn’t have to wastes their time looking for products all over the places.

Since our target audience are the farmers itself, so our website could be proved to be very helpful for the overall farmers .

**SCOPE FOR EXTENSION INTO A MAJOR PRODUCT:** Our Project is a website prototype which focuses on providing resources to users at one destination. In Future All works will be done in Online Mode So By Our Website Farmers can access products digitally , buy and sell crops at best prices and we believe that our small project could extend into a major product with the help of number of peoples visiting and using our website

With the number of users increasing on our websites, our project could become a major website with ads running for revenue. We could also tie up with various different grain websites for our proper growth. Nevertheless, we all team members are very optimistic and excited for this project.

It should transmit price signals correctly. Production will go where the profit is, and profit is where people want production. Unfortunately, these price signals get distorted by government interference in supply management through this we want to give rights to each farmer i.e. Freedom of pricing and freedom of access.

**CONCLUSION:**

**GEM**  is designed for farmers who can access products digitally and can buy or sell crops at best prices authorised by the government officially. And the products are available to find reasonable prices by comparing to different places. It can help farmers to save time and introduce to technology and connect digitally. GEM helps farmers to get updated with the latest prices o the crops. GEM facilitate the single window solution to the farmers.