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Creating a website to connect farmers with customers using SQL integration

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ABSTRACT
This project aims to develop a web-based platform that bridges the gap between farmers and consumers by facilitating direct transactions. The platform will serve as a marketplace where farmers can list their products, and customers can browse and purchase fresh produce directly from them. The primary focus is to eliminate intermediaries, ensuring better profits for farmers and cost-effective, fresh products for consumers. The web developed using modern web technologies and will incorporate a robust SQL-based database for efficient data management. SQL integration will be used to handle critical functionalities such as user registration, product listing, order management, and transaction history. The database will store detailed information about users, products, orders, and feedback.
Key Words*: Farmer's login, Users login, Products*

1. INTRODUCTION

ONLINE farm websites are the sites made for the purpose of farm products, purpose may vary accordingly it may be to provide them or counsel them. Some websites like farm fresh provide the facility to make your own page for the selling or buying the products which are came from the form.
The amount of code that can be loaded into a farm, class, or standard module is limited to 5173 lines. A single line of code can consist of up to 1065 bytes. Up to 256 blank spaces can precede the actual text on a single line, and no more than twenty-four line-continuation characters (_) can be included in a single logical line.
There is no limit on the number of procedures per module. Each procedure can contain up to 64K of code. If a procedure or module exceeds this limit, Visual Basic generates a compile- time error. If you encounter this error, you can avoid it by breaking extremely large procedures into several smaller procedures, or by moving module-level declarations into another module.

2. LITERATURE SURVEY

Acharya S.S, Agarwal N.L. Indian agricultural marketing plays a pivotal role in the nation's economy, connecting millions of farmers to markets and ensuring the distribution of agricultural produce to consumers. The agricultural sector in India is marked by its diversity in crops, fragmented supply chains, and dependence on weather conditions. Despite its significance, the sector faces several challenges, including inadequate infrastructure, limited market access for small and marginal farmers, price volatility, and inefficiencies in the supply chain. This review explores the current state of agricultural marketing in India, focusing on traditional marketing practices, government initiatives like the Agricultural Produce Market Committees (APMCs), and the rise of digital and e-marketing platforms. It also examines the role of technology and data analytics in bridging market

gaps, enhancing transparency, and empowering farmers through better price discovery.

Agriculture has been the backbone of the Indian economy, contributing significantly to employment and GDP. With nearly half of India's population depending on agriculture for their livelihood, the effective marketing of agricultural produce plays a vital role in ensuring farmers' incomes and the overall development of the sector. Indian agricultural marketing encompasses the activities, agencies, and networks involved in the procurement, transportation, storage, processing, and distribution of agricultural products. Over the years, it has evolved from traditional barter systems to modern-day regulated markets and e- commerce platforms. Despite this progress, the sector faces challenges like inadequate infrastructure, market inefficiencies, price volatility, and the dominance of intermediaries, which often hinder farmers from realizing fair returns for their produce. This review aims to explore the structure, challenges, and emerging opportunities in Indian agricultural marketing.

3-METHODOLOGY

User Requirement

To design a website that supports the needs of the company and the users, you must know who your audience is. It is important to determine your users at this early stage of the project. Some of the things you want to discover are: What do they want to do on the site, What will make them return to the site, What is their level of experience with the web.

3.2 Software Requirement

1.	Operating System	: Windows XP.
2.	Front End	: HTML.
3.	Script	: JavaScript.
4.	Storage	: Google Drive.
5.	Browser	: Internet Explorer (Above 12.0 Versions).

3.3 Hardware Requirement

1.	Processor	-	Dual Core.
2.	Speed	-	1.7 GHz.
3.	RAM	-	1 GB (min).

4.	Hard Disk	-	20 GB.
5.	Key Board	-	Standard Windows Keyboard.
6.	Mouse	-	Standard Mouse.
7.	Monitor	-	LCD.

design

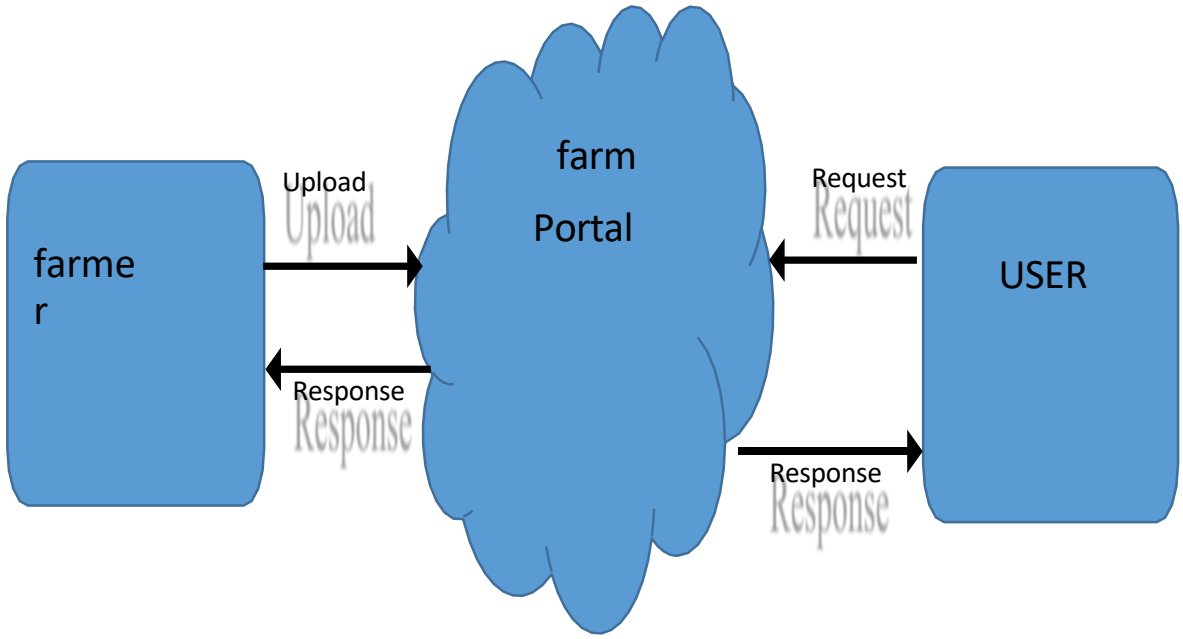


Fig 1: Architecture of System

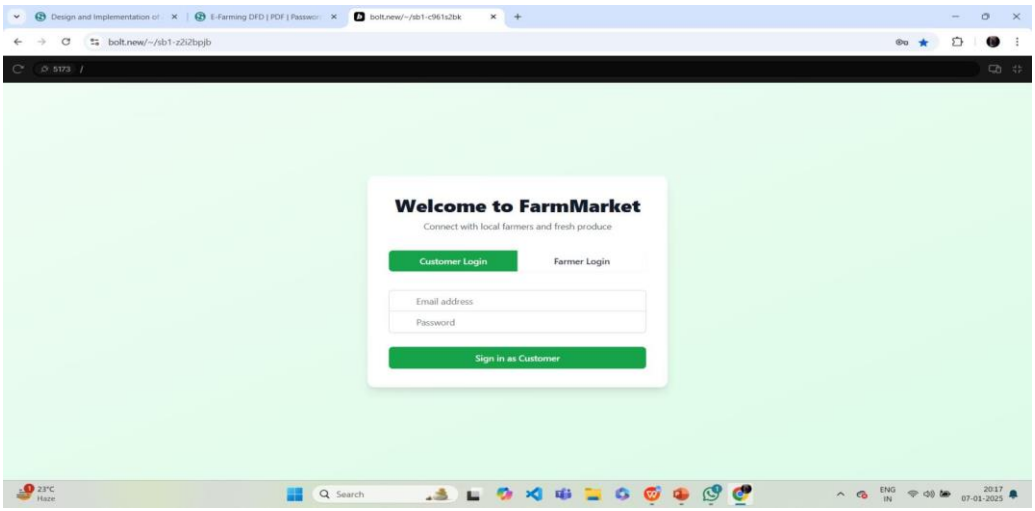
The architecture of a farmers' website typically follows a multi-layered structure designed to ensure scalability, security, and ease of use. At the front end, the website is built with a responsive user interface using HTML, CSS, and JavaScript frameworks, allowing farmers to access the platform on various devices, such as smartphones and desktops. The user interface is designed to be intuitive, enabling easy navigation for farmers to access resources like market prices, weather updates, agricultural news, and community forums. The back end consists of a server, often powered by technologies like Node.js, Python, or PHP, handling data processing and interactions between users and the database. The database, which could be a relational (like MySQL) or non-relational (like MongoDB), stores user data, agricultural resources, transaction histories, and other dynamic content. Additionally, API s are integrated for connecting external services such as weather forecasting, payment gateways, and e-commerce functionality for selling or purchasing farm products. Cloud hosting platforms like AWS or Azure provide scalability, while security protocols like encryption and secure login systems protect user

data. Overall, the system is designed to be robust and saleable, supporting a growing number of users and ensuring reliability for farmers in various regions.

4-RESULT

Home page:

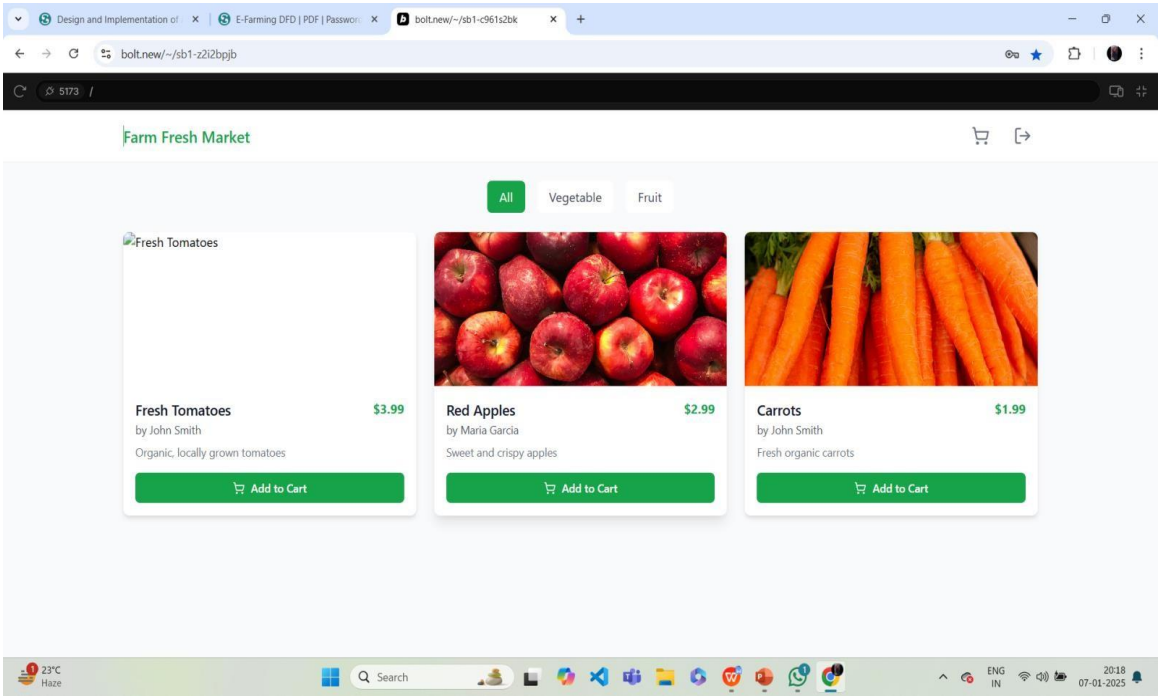
This Home Page Includes the Index of the web-page which gives brief information of all the topics which are included in the website.



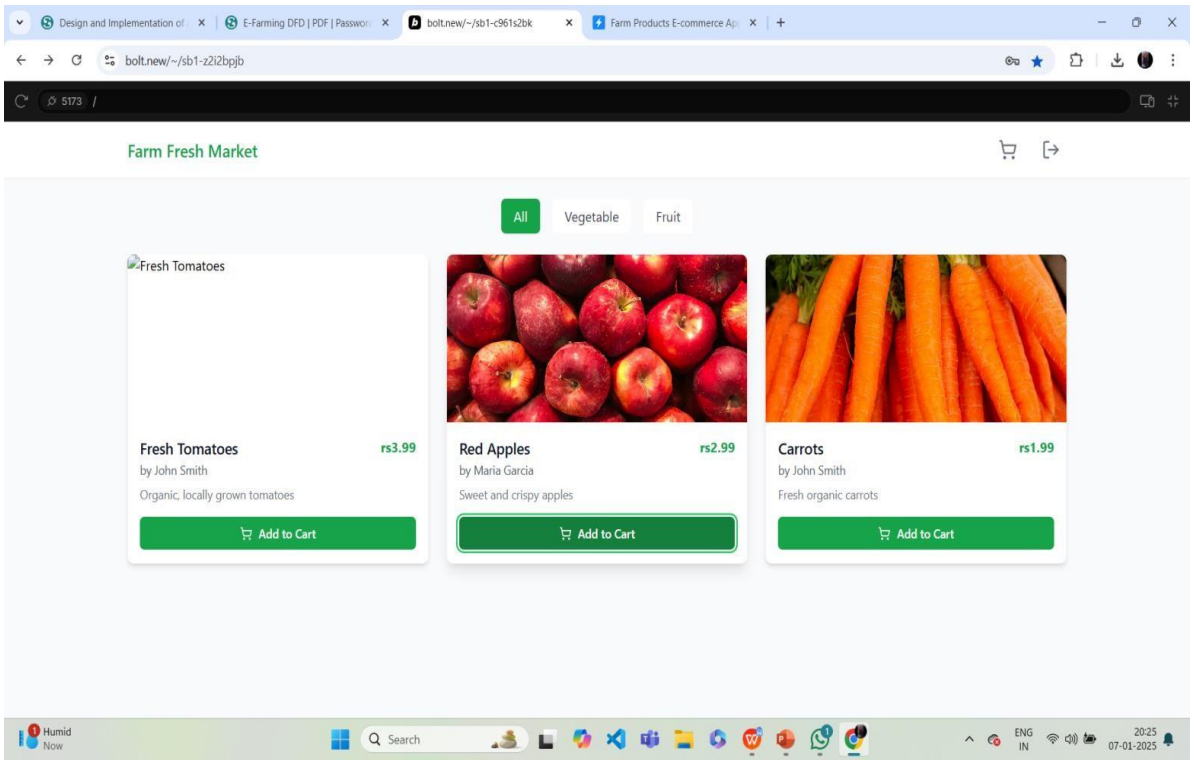
USER LOGIN AND FARMER LOGIN PAGE

The login page which shown customer login and user login where it suggests the password a user name for farmers supernaturally and user differently

Farm cart

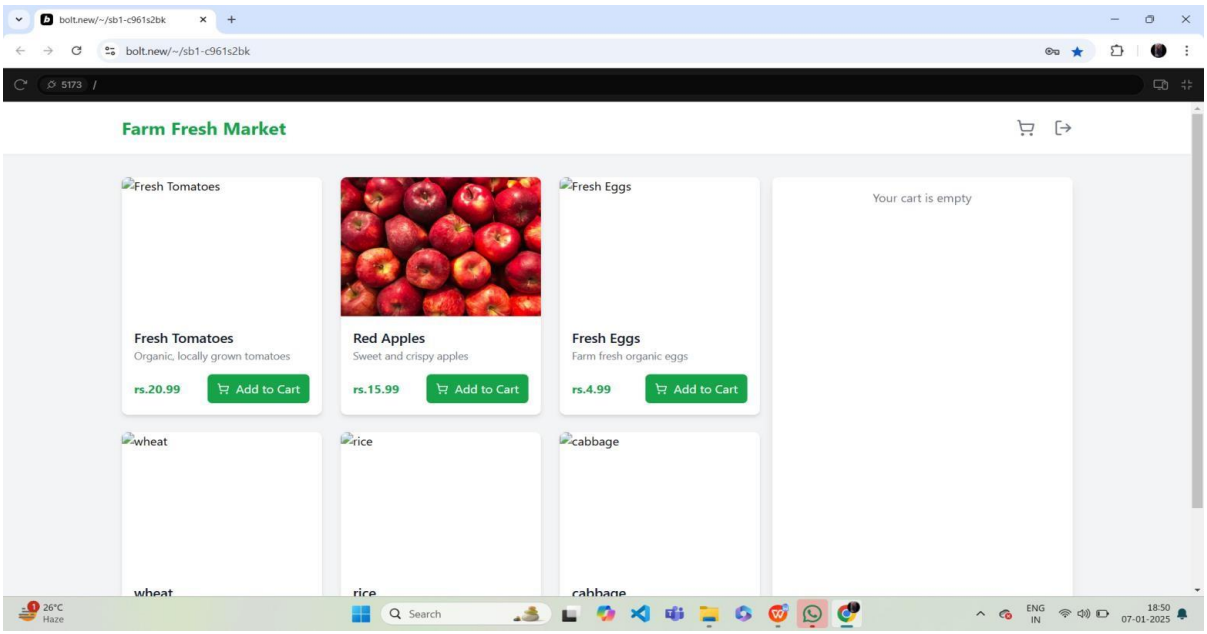


ALL IN ONE PAGE



ADD TO CART PAGE

The add cart page is the page which shows the products which are added to the cart for buying them easy and quickly.



5-CONCLUSION

In conclusion, a farmers' website plays a crucial role in bridging the gap between farmers and consumers, facilitating access to market information, resources, and tools to enhance agricultural productivity and sales. By offering features such as product listings, real-time market prices, weather updates, and community engagement, the platform empowers farmers to make informed decisions and expand their reach to a broader audience. Through careful design, robust back-end infrastructure, and comprehensive testing, including unit tests, the website ensures a seamless user experience, security, and scalability. Ultimately, the farmers' website supports the agricultural community by improving accessibility to vital services, fostering economic growth, and enhancing the efficiency of agricultural practices. The platform's success depends on continuous development, regular updates, and responsiveness to user needs, ensuring it remains an invaluable tool for both farmers and consumers.

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