Bhaaratha Vivasayi App



C. Sunitha Ram, S. Pavan Kumar, M. Shivashankaran

Abstract: This study motivates farmers to use an online business stage to shape their income without any middlemen. Online business is one of the quick enterprises on the planet. Numerous organizations were at that point moved to online business and producing immense income inside a brief timeframe. The serious issue is "The farmer who produces nourishment for the country isn't benefitting with the pay". Since there is no such committed stage for farmers to create beneficial pay for their developed items. Existing stages are joined with all classifications (home, kitchen, and electrical apparatuses) of items that could tangle up farmers, and furthermore, the absence of app information is one reason that a farmer will be unable to sell their items on the app. To defeat this, The Bhaaratha Vivasayi app will be useful where a farmer can be ready to sell or buy anything connected with the agribusiness and cultivating classification without middlemen. A basic easy to understand app with numerous rancher merchants and different horticultural items alongside a point-by-point review about the most recent cultivating innovations will definitely shape the cultivating area income. This will help ranchers to get information and save both time and energy. Likewise, new associations and correspondences will be laid out and the item stock will sell effectively with practically no work help. Also, it will help customers to buy organic fresh groceries at a reasonable price directly from farmers. Basically, It is devoted to farmers with all cultivating items like pesticides, seeds, composts, crops, etc. . So, this app will surely play a vital role in uplifting & benefitting framers as well as customers.

Keywords: Customers, Explore Communities, Farmers, Higher Profits, Healthy Foods, No Middlemen.

I. INTRODUCTION

Agriculture is the monstrous subordinate class of occupation in India. Ranchers are battling enthusiastically to satisfy their necessities in the farming fields. Each area in India is advancing as a computerized peculiarity utilizing the most recent digitization advances, why not farming. We can create and execute digitization in agribusiness as well as direct selling for customers without any middlemen. There comes a plan to use programming advances to help ranchers with our extraordinary undertaking. We help farmers to get information on new development techniques. A simple easy to use interface conveniently assists clients with getting into our app.

Manuscript received on February 27, 2022. Revised Manuscript received on March 06, 2022. Manuscript published on March 30, 2022. * Correspondence Author

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Advantageous and extremely responsive which works with it to work successfully on any sort of gadget. The site is accessible in different dialects like Hindi, English, and a few restricted dialects.

The farmer who develops crops as per the season, in the wake of developing the yields stores them and contacts the dealer with respect to the stock accessibility. The discount merchant asks at the cost, the rancher tells the cost at which he can exchange. Because of financial circumstances and the inaccessibility of vendors, the rancher will sell their items at low costs requested by the market and they can independently price theirs produces. In demonstrating hatred for, of the issues, for example, soil barrenness, weather conditions changes, seed abandons ranchers developed their great harvests.

So they anticipate a few benefits for their yields. Because of market sellers, middlemen, and their advertising strategies farmers are not getting their beneficial benefits. Then, at that point, the seller merchants offer it to end clients. Here the mediating merchants are getting adequate benefits for their selling. Ranchers are experiencing in each portion to get their beneficial pay for their diligent effort. Innovation is the riding power in the current world. We are intending to utilize this innovation to explore cultivating a fruitful area.

A) Scope of the project

Cultivating isn't an obligation, it is an approach to everyday life. Agriculture is completely involved in Indian culture. Food is one of the significant wellsprings of living, ranchers who are producing this food are not satisfying their necessities. At this moment ranchers in the nation are taking care of a lot of issues in cultivating.

During the time spent examination, we came to realize that there is a method for using the application to help ranchers. Innovation is stepping in each field and supporting each field toward its so we were educated to bring this Bhaaratha Vivasayi application to agribusiness. We instructed that this astute and remarkable conviction will assist ranchers with improving their battles in selling and purchasing their items.

The ranchers offer their items to explicit merchants to support themselves in these current circumstances. Here ranchers are enduring to meet the last costs of the gathered harvests on the lookout. The entire framework isn't straightforward.

Farmers are inexperienced with costs in various business sectors and accordingly, they don't have the idea where they can offer their items to acquire tremendous benefits. This incites the inspiration in us to make and carry out a gainful internet business site for farmers.

MOTTO: "Farmers and Farm owners are Businessmen and should be treated the same.

Price secularism and transparency in Agricultural Market."

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Retrieval Number: 100.1/ijsce.A35490312122 DOI: 10.35940/ijsce.A3549.0312122 Journal Website: www.ijsce.org

II. LITERATURE SURVEY

A significant investigation has been performed on the horticulture market and different explores in distributions about the farming area. The improvement of agribusiness relies upon how quickly and pertinent data is given to the end clients. e-Agriculture is a new term that characterizes a worldwide local area practice, where individuals from everywhere the world trade data, thoughts, and assets connected with the utilization of Information and Communication Technology (ICT) for feasible horticulture and country improvement. The discoveries of this study gave a structure to be involved by various partners in horticulture in TransNzoia County to execute an e-Agriculture stage that supports advertising of farming produce.

[1] Peter Namisko and Moses Aballo "Current status of agriculture and Global Trends" in International Journal of Science and Research Volume 2 Issue 7,2013.

The greater part of ranchers in the state or nation doesn't know that cell phones can be utilized to lead organizations and get data. Cell phone expenses ought to be brought down to empower a larger part of ranchers for approaching the current data regarding agribusiness inside the state or country. e-Agriculture has not been carried out on the grounds that ranchers in the nation have not been sharpened with regards to it and youthful ranchers were in absence of data about the agribusiness to such an extent that e-farming could give them helpful data with respect to the estates that they have developed. The public authority ought to likewise lead sharpening to make mindfulness for the ranchers on how best they can utilize data innovations to lead agribusiness.

[2] "A Survey Conducted on E-Agriculture with Indian Farmers" by SumithaThankachan, Dr.S.Kirubakaran in International Journal of Computer Science and Mobile Computing on 2 February 2014.

This cycle portrayed the issue of one specialist that sees a goal for which it needs different specialists to collaborate to accomplish this objective. Correspondence is fundamental during CPS processes in light of the fact that fruitful agreeable critical thinking requires solid one-on-bunch correspondence to accomplish a guess of normal conviction among the specialists participating in a group.

[3] R. Verbruggeand E. van Baars, "Knowledge-based Algorithm for Multi-Agent Communication".

The proof from this concentrate plainly uncovered that in Andhra Pradesh horticulture, efficiency development and broadening towards high worth wares have played a key job in the adjustment of the worth of creation. The review thought about just the harvest area for decay investigation to approve wellsprings of development in the worth of creation from the yield area. [4] "AP.S., PK Joshi, AV Narayananand Birthal, "Agricultural Diversification in India: Trends, contribution to the growth and small farmer participation", ICRISAT in 2011. The banking industry is answering to the contemporary security challenges through conventional security work that gets motivation from driving security guidelines for supervising security drives in the banks. Alongside adjusting the security drives to these driving security principles, banks need to contribute their energies on giving engineering treatment to security, persistently evaluating their openness to dangers through activities, for example, danger displaying, applying the rules, and guzzling

the act of 'safety in the plan by executing business coherence and debacle recuperation plans. This will get an organized methodology their safeguard procedures and projects for productively and successfully moderating the genuine dangers by guaranteeing that security is viewed as right from the plan period of any item or administration. The issue of data security in the present arranged world is introduced along with current normal arrangements applied to tackle it regarding the financial business. [5]Albert H., Judd, Rivers, (2006) "Creating a Winning E-Business", Wagner Course Technology Thomson Learning, pp. 37-255. This paper aimed to incorporate discoveries in the Agri-food E-trade (AE) field through a precise writing survey and propose various future examination headings in light of the holes recognized from the audit. There has been an overall expansion in the number of distributions, showing that AE research has inspired increasingly more interest from researchers in various nations and across different disciplines. We have recognized various topics and figured out them by fostering an incorporated reasonable model, which comprises of two sections: one for AE reception at a firm level and one for AE improvement at a provincial level. Moreover, we suggest that more accentuation ought to be placed on the territorial improvement methods of AE and their effect in the creating scene, as the training is advancing quickly in a few agricultural nations like China.

[6] "E-Commerce in the agri-food sector: a systematic literature review" by Yiwu Zeng, Fu Jia, Lia Wan and Hongdong Guo in the International Food and Agriculture Management Review on 26 February 2017.

An overall expanding pattern in the number of articles affirmed the raising interest in AE research: notwithstanding, various subjects perform unevenly with S-D rationale. Despite the fact that exploration subjects, for example, Consumer Willingness are drawing nearer to S-D rationale premises, and belief systems that are progressively moving toward S-D rationale have been applied to examining AE themes, sadly, there stays a lack of papers that employ S-D rationale in the AE field. This examination centered around a creative arising AE field and, all the while gives a methodology of coordinating S-D rationale into breaking down scholarly papers in the AE area. This examination might reveal some insight into future prospects that S-D rationale could uphold the co-formation of significant worth among purchasers and agribusiness chiefs, and other more extensive teachers like administration and advertising. [7] Evaluation and suggestions on the construction of e-commerce platform for rural agricultural products, Cui Yabo and Zhao Yao, 2019, Modern agricultural research. The agribusiness area needs to create with the development in the market to do such additions there should be remarkable headway that must be performed. That is the cutting edge frameworks and innovation ought to be utilized to build current cultivating in a huge yield way. A lot of countries are doing their investigation on innovations to involve them in developing, all the while, they are achieving OK results. With the degree of innovation, rural techniques between districts become vulnerable and they can ably get the data they are endeavoring.

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Fresher IT (Information Technology) foundation works with the mix simple in the organization.

[8] Mansh Robin, Kumar Gauri, and Gandhi Vasant, "agroindustry for rural and small farmer development: issues and lessons for India" in 2001.

We spread the data from the (IFFCO) which is a multistate agreeable society in India on our site. The information is about agrarian methods, this will be conveyed as voice reaction, understanding web journals. We will do these administrations progressively in multi-dialects, which make the high-level issues effectively noticeable through different nations. The data from the overview expresses that China, the USA, Germany, Norway are broadly evolved in horticulture so they are stepping to the vulnerable approach to cultivating. This innovation will serve ranchers in a few perspectives like kind of a gauge report, different market costs, data about the most recent methods, climatic changes, crop reasonableness, and so on, will assist the ranchers with developing their horticulture in numerous ways. We can form E-trade (Electronic business) in a way that will expand the deals of the harvest in each spot and brings profit for farmers. Internet business is a most effective apparatus that has significantly adjusted the progression of human existence.

[9] Gulati and Ashok "Emerging Trends in Indian Agriculture: What can we learn from these?" in 2009.

E-Commerce is basically alluded to as trading items utilizing the web. In any case, E-Commerce is comprehensively grouped into three classifications: B2B (business-to-business), B2C (business-to-purchaser and C2C (shopper-to-buyer). These three segments are likewise called E-Commerce. The app framework we are creating will assist them with shaping more educated choices and increment their pay potential by adjusting the ranch result to plug requests. There may be a functioning improve the utilization of the organization later on and furthermore networks attainable in each provincial region in India. So there shouldn't be any delayed consequences with the organizations to deal with the computerized frameworks. In any advertising or business, there is an expectation of advantage included and all the while the publicizing is to be established on explicit characteristics and guidelines, for instance, offering sensible expenses for the ranchers who put forth a strong attempt to give the sustenance. Through this Farm Direct Marketing stage, we will guarantee that both the ranchers and buyers will be beneficial. This stage will ask the ranchers to keep developing and guarantee they get the right advantage for their work. [10] Farm Direct Marketing, P Lakshmi, K Divya, 2020, IRJET

III. PROBLEM STATEMENTS

- The increase in price by average is 300% when a farm product enters a family or an end-user, compared to the price at the level 1 sell of a farmer.
- The patriarchy of Middlemen is unavoidable and deep
- Farmer has less / no independence in deciding the pricing of his produces.
- Farmer is jailed and constrained very tightly to local
- Resellers (Less competition among buyers).
- Mandy Commissions are an extra burden.
- Farmer is unaware of hidden markets (eg: agricultural waste market)

- Farmer are remote to Ecommerce, Marketing, advertisements.
- Less exporting capabilities. Farmer indefinitely waits for settlements from buyers (especially Contract farming).
- Increase in prices minimum of 300% due to middlemen and commissions
- A big gap between wholesale prices and retail prices. Farmer and End consumers are kept apart deliberately. Farmer is kept remote from Technology.
- Ineffective use of technology and IT in farming. Buyers are unaware of the benefits of bulk purchases and wholesale purchases.

Nowadays all apps and companies stand between a farmer and a consumer, reducing the farmer-consumer connection. There is always a store or some representative from the company standing in the middle. This brings back the shadow of the middlemen problem again. This app wants to be just an interface, dissolving between Farmer and a consumer. "Bhaaratha Vivasayi" is like a mirror between a farmer and a consumer. When someone sees a mirror, one sees oneself and not the mirror. We call it "Social Farming".

A) BENEFITS

Farmer Benefits:

- Pricing independence to the farmer.
- The market for every commodity is perishable and perished.
- Increased income by creating competition among customers.
- Money in the Bank account of Farmers even before packing the order for delivery.
- Freedom from a handful of middlemen.
- Order Confirmation even before harvest.
- Advertisement and Marketing in social and Digital media right to information. A Dashboard with Analytics, information in the hands of farmers Customer Demographics. Insisting on crop insurances and Mandating it whenever necessary. Customer feedbacks. Frequent training and gatherings on various topics including technology, value addition, hidden market and opportunities, government schemes, and much more.

Customer Benefits:

- Lowered Cost of purchase, 24x7 Product Availability or Available ASAP (Any product available to anyone).
- First come first served.
- Bridging the gap between retail customers and wholesale buyers.(Everyone is a wholesale buyer).
- A Chance to be a part of Agriculture and Farming irrespective of where he/she is from (Via Contracts)
- Purchase by the performance of farmer
- Right to information, complete statistics on purchases.
- Talk with the farmer.



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IV. RESULT AND DISCUSSION

REGISTRATION PROCESS: A special guest might be a merchant or a purchaser. The purchaser can be a farmer or any individual. But, here all sellers are strictly farmers no middlemen involved. A guest can enlist him/herself by basically filling the enrollment structure which is on the app/web by giving the fundamental details like email, portable number, secret key, address, and so forth There you can find choosing a job choice, for example, Seller or USER.

In the event that an individual is a seller, the structure will gather extra vital details like crops, harvesting crops, farm details, farm name, farm address, timings, records, and so forth After effective enlistment, he/she can log in to the board with their own accreditations and mail id.

FARMER: A farmer dashboard contains detailed structure i.e no of orders, no of reviews & ratings, messages, products, etc. Farmers can add products directly from their dashboards and they should update their stocks. But, the product will be live after the admin authorization.

CUSTOMER: A Customer can buy any item from any farmer. He/she can reserve the privilege to leave an item audit after the buy. The customer can straightforwardly interface with the farmer through the Q&A tab. The customer can explore the community through explore community tab and they can form a group and order the same for less price with fresh products directly from farmers. Also, anybody who wants to own the field can participate in the auction.

ADMIN: Admin can purchase the stock from the farmer and admin can able to see the dashboards of whole customers and farmers progress. Admin has permission to change the user as farmer or customer.

We can also add farming expert consultation for farmers to enhance their farming skills.

The order tracking system, promotion codes, item limits will be available and all that advertising procedures can be applied for expanding deals and expanding reach to the appropriate clients. Detailed demo recordings help to make account process else he/she can contact an administrator for account creation.

B) Architecture Of Bhaaratha Vivasayi

The below architecture represents system architecture where you can find several blocks like store farmers, customers, farming products.

- Here Farmers will add their related products
- **Bhaaratha Vivasayi** is an app/web where buyers can view all products and order any healthy products directly from farmers without middlemen.
- Customers may be farmers or any buyers.





The below flowchart help you to understand better about app process:



Fig.2. Flowchart of Bhaaratha Vivasayi

How does purchasing or placing the order take place?

At first, the Customer requested to log in to our app, after getting access as a customer. Customers can find all available products and combo packs on the respected tabs. They can find all information in their respective dashboards. After finding the product, one can observe every one of the information like item description, cost, reviews, and so forth. They can explore communities and join with their neighborhood for greater benefits. At last, they can place an order, can choose the mode of delivery, and pay their amount, after a successful transaction one can track their status on the place my order report. How Farmers can add products to their store?

Before adding a product, The farmer has to register and be verified by the admin. After that, they can get access to personalize my cart adding products, description, quantity, available combo packs, contact info, variety, crop status, etc. The farmers should update their status and available products at a time, after customers placed an order farmer should be ready to deliver the produces by Bhaaratha Vivasayi delivery partner.

- Our main aim is to make a farmer high benefits without any middlemen the products should reach the end customer with valuable price and should be healthy products.
- The customer should support farmers from using this app for their daily needs.
- The customers can participate in auctions for harvesting crops etc.
- The customers and farmers can interact directly through the Q&A tab.

The following demo screenshots will make you more understanding:



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Fig.3. (Login or Registration)

The above figures represent Login & Registration pages. A visitor may register. From registering admin can give access to farmers or customers based on their inputs. All vendors are farmers so, after successful verification from the admin vendor can add their own products under My Farm Products.



Fig.4. (Password Recovery)

If customer or farmers forgot their password then, they may hit on forget password option and by providing their registered mail they can change it. Also, He/She can contact the admin for help. You can find the screenshot of Forget password page above.



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Here is the farmer's dashboard with various features, It is an attractive dashboard that helps farmers to keep eye on sales, earnings, reviews, ratings, and orders. Also, he can able to withdraw his earnings with the admin confirmation directly to their registered bank account.

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Fig.6. (Adding Product)

Adding new products along with all the details like cost, product description, Images, etc, also they can view and update theirs produces.

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Fig.7. (Customer details)



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Bhaaratha Vivasayi App

The above screenshot describes the customer details page.



Fig.8. (Customers Dashboard)





Fig.9. (Customer can check available combo packs)

Customers can explore the community for buying healthy products at valuable prices. It is the Available combo packs page: It contains all the products from various farmers. A buyer can filter those to find the desired product and add it to the cart.

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Fig.10. (Customer can place the order by filling this form)

Retrieval Number: 100.1/ijsce.A35490312122 DOI: 10.35940/ijsce.A3549.0312122 Journal Website: www.ijsce.org After filling out this form customers can pay online and select the mode of delivery and can track their products on the Place my order reports page.

V. DISCUSSION

This app is a powerful app/web with different trading highlights and strictly implied for Agriculture and Farmers to get higher profits. The fundamental prerequisites are as follows:

- Methodology and Plan: We ought to have the least information about our objective individuals (sellers and purchasers). Additionally, we should know every single fundamental component in agribusiness.
- Technology Preference: Preferring any mobile phones, laptops and personal computers like any devices can access our app by downloading an application also by web.
- Advancement and Metrics: As we are exceptionally related that site speed assumes a fundamental part in changing guests over to purchasers. We ought to take out every one of the superfluous things, code, and streamline all pictures. Additionally, we can dissect all guests' conduct, socioeconomics, orientation, and so forth through connecting our foundation to Google Analytics.
- Client Engagement and Trust: Posting content reliably will upgrade brand exposure alongside followers. Client Engagement assumes a significant part of item deals and reach.
- Demo: Make sure that there will be demo recordings for each segment on youtube. This would make enlistments a lot more straightforward for farmers or buyers. Then they contact an administrator for queries.
- Secure Payment Gateway: Integrate easy to use, high encrypted payment passage for strain-free exchanges.
- Logistic Service: Be joining forces with the reasonable and proficient strategic supplier (Delivery Partner) as well as Customers can select the mode for convenient deliveries.

IFFCO	Indian Farmers Fertilizer Cooperative Limited
B2B	Business -to-business
B2C	Business-to-consumer
C2C	Consumer -to-consumer

VI. CONCLUSION

This System will help the farmers in a way that they achieve some profits for their hard work and will decide pricing independence. Establishing or Creating a Global, Single Windowed, Transparent Portal for farmers to Showcase their Produces. All these unique technologies, advanced software solutions, and network reforms will help the farmers grow more and more and we strive for a better future for farmers. This System is expected to work on cultivating rustic networks to make them mindful of yields and their market costs.

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This sort of framework is additionally useful for the public authority to get the precise data regarding the harvests accessible in their comparing regions. The examination we made has guessed that the progression and change of E-trade is an imaginative approach to controlling and market permission for smallholders. We will assemble a framework that is simple and clear to use by each provincial farmer. The project we are causing will be to outfit maximal income to the farmers who don't get benefits as a result of wholesalers who refer to their cost for the harvests. This large number of curious advancements, refined programming arrangements, and organization changes will help the farmers develop to an ever-increasing extent. The innovation we are attempting to carry out will try for a superior future for the farmers. Farmers and Farm owners are Businessmen and should be treated the same.

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