iJRASET
International Journal For Research in Applied Science and Engineering Technology

INTERNATIONAL JOURNAL FOR RESEARCH

IN APPLIED SCIENCE & ENGINEERING TECHNOLOGY

Volume: 14 **Issue:** III **Month of publication:** March 2026

DOI: https://doi.org/10.22214/ijraset.2026.78445

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International Journal for Research in Applied Science & Engineering Technology (IJRASET)
ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.538
Volume 14 Issue III Mar 2026- Available at www.ijraset.com

Agri Product Transportation System

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Abstract: ***Agriculture plays an important role in our daily life. But as we know farmer faces many challenges in selling and transporting their products to market. One of the major problems they face is the lack of proper communication between Farmer, Company/ Buyer and Transport providers. Because of this, farmer depends on middlemen & receive lower prices for their products. And also additionally, delays in transportation can lead to spoilage of agricultural goods. The purpose for making this app is very simple to resolves this problem we make this app "Agri Products Transportation System". Through this system, farmer can add their products, companies or hotels can directly view and purchase products, and transporters can provide delivery services. This platform helps reduce transportation delays improve communication between stockholders, and increase efficiency in agriculture product distribution. The system also support farmers in reaching buyers that products are delivered safely and efficiently .***

I. INTRODUCTION

Agriculture is one of the most important sectors in many countries, especially in villages, town where farmers daily life is fully depend on agriculture. However, farmers often face difficulties in selling their agricultural products due to lack of direct market access and also lack of transportation system. Many farmers uses traditional way for farming it takes more time, money, and also sometimes are unreliable. With today's digitalization and mobile application , it has become possible to create smart solution that simplify agricultural supply chains. A smart agriculture transportation system can help farmer to contact directly with buyer it can be company, mess services, hotels while also providing transportation support. Farmer can upload their products on app and buyers see the product and if the buyer like or want the farmers products then it can easy contact with them. The system also allows user to request transport and track product delivery.

This system improves transparency, reduces dependency on middleman, & also ensures efficient transportation of agricultural goods from farms to markets or businesses.

II. SYSTEM FRAMWORK

The Agri Products Transport System provides a structure platform that connects with farmer, company, / hotels/ mess services and transport providers.

The system starts with login page where user enter there detail information to access application. After successful login user directly interface with home page where several options are available, include farmer, company/ hotel/ mess, transport request transport, and delivery tracking.

In the farmer module, farmer can manage their Agriculture product. Farmer has 3 options :

1) Add your product.
2) Deal with Company/ Hotel /Mess.
3) Farmer can your product and deal.

When a farmer selects add your product, a form appears where they can enter there product detail like., name quantity and also personal information. This all information stored in our database. Through the deal with Company/ Hotel/ Mess option, farmer can a view a list of businesses registered in the application and established deals with them.

Your product and deal option allows farmers to review their added products & deals details. The Company/ Hotel/ Mess this module allows businesses to interact with farmers and purchase agriculture products. Businesses can add their information using add your Company/ Hotel/ Mess option. Through the Deal with Farmer option, they can view products added by farmers and select product they wants to purchase. The your added products and deal options allows businesses to review their information and also see deal history. Next Transport modules allow transport providers to logins and add their transportation details. User can request transporter services through the request transport option.

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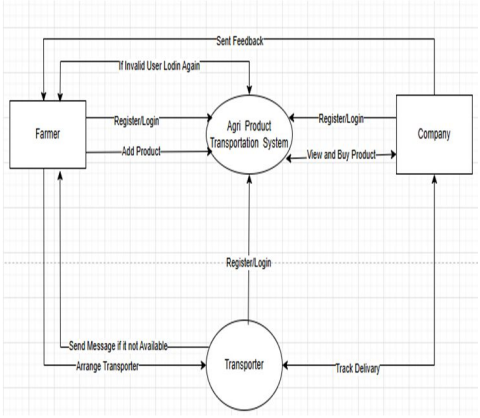
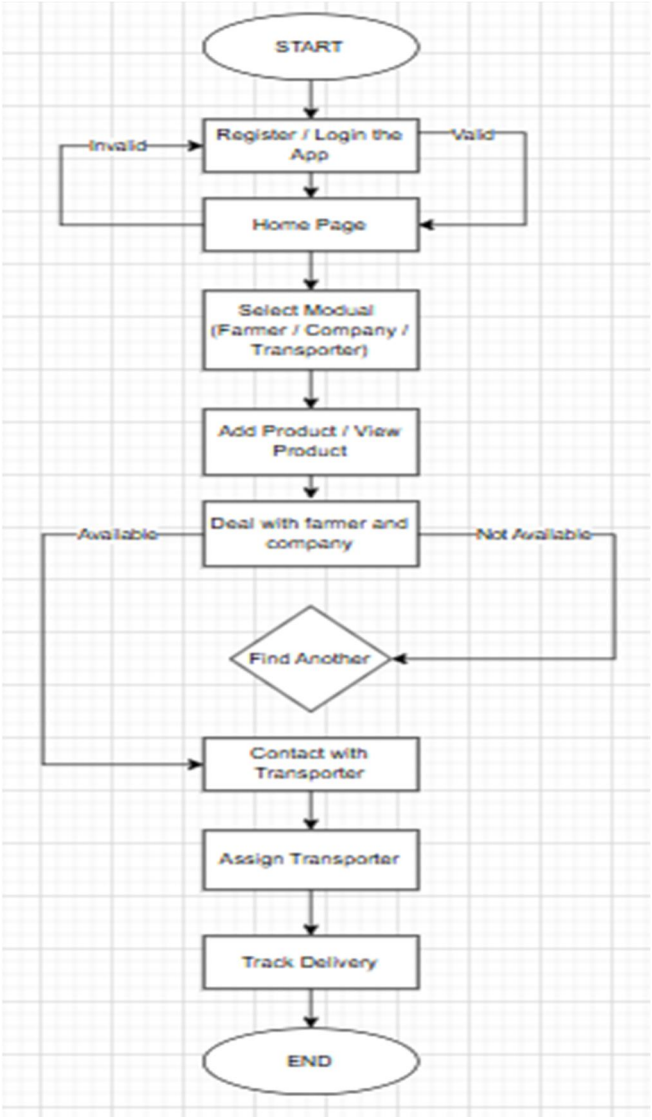
III. DFD Level 1



IV. FLOWCHART



V. PROBLEM STATMENT

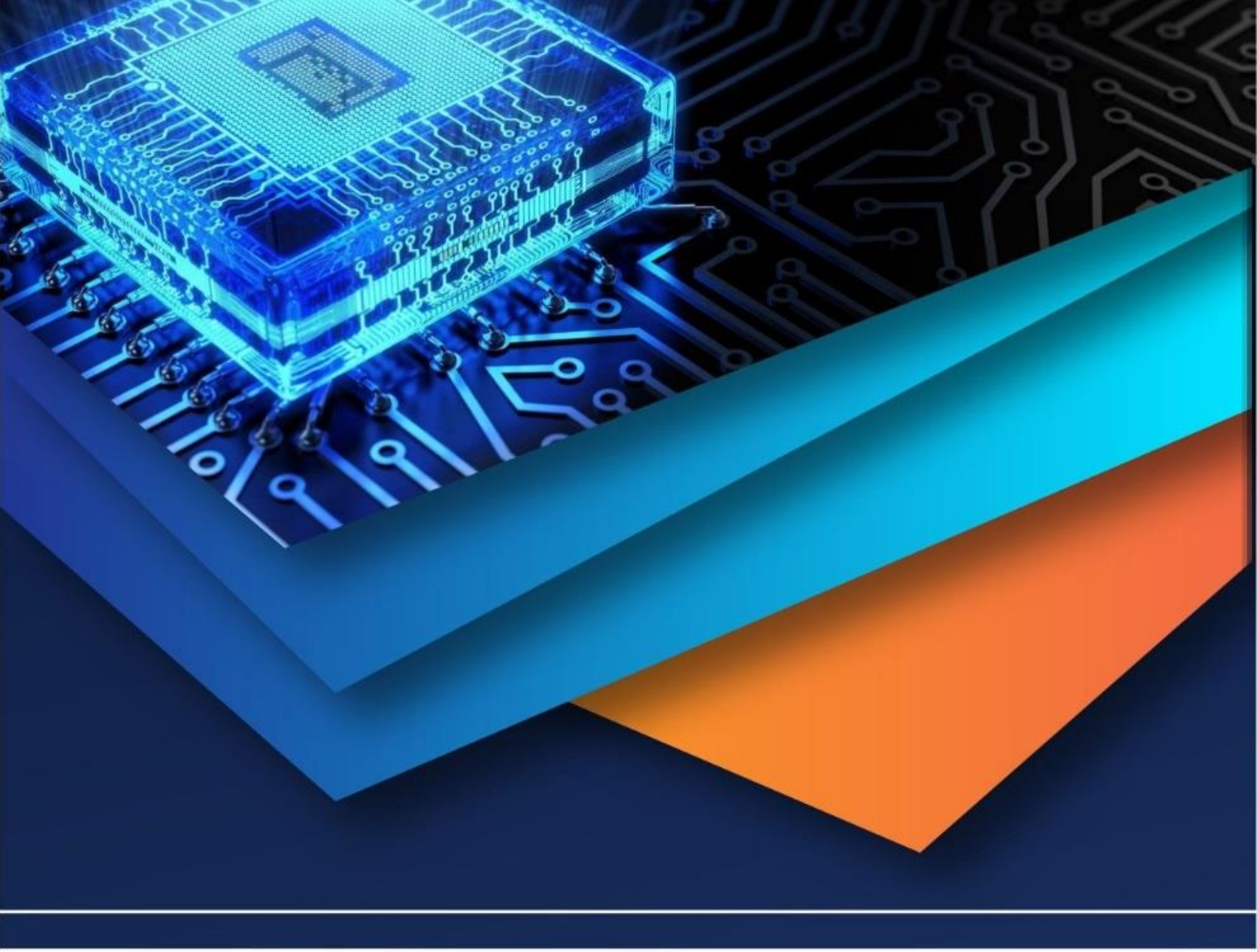
Farmers face difficulties in selling and transporting their agricultural products due to the lack of direct communication with buyers and reliable transport services. Because of this, farmers dependent on middleman and receive lower profits. Tansportations delays can also cause spoilage of products like fruits and vegetables. Therefore, a smart system is needed to connect farmers, buyers and transport providers and to provide efficient transportation and delivery tracking.

VI. CONCLUSION

Without use of IOT ,Transportation of the Agri product is Easy and usefull because no weatage of goods and does't pay the extra payment of goods. This Application handles effective Communication between the Farmer and Company. It Provide a job to the people who is surviving in village with family and also uneducated Boys. That's the reason farmer earn more Mony, without helping merchant.

REFERANCES

[1] Napkhonenko, N., Zagirniak, D., & Karaeva, M. (2018).Agricultural Cargo Transportation Logistics System Development. International Journal of Engineering and Technology.
[2] Parung, J., Santoso, A., Prayogo, D. N., Angelina, M., Tayibnapis, A. Z., & Djoemadi, F. R. (2015). Designing Efficient Logistic System of Fresh Agricultural roducts for Small Farms. Journal of Electrical and Electronic Engineering.
[3] Cao, J. H., Wang, L. L., & Luo, H. X. (2012). Research on Key Techniques for Monitoring System of Agricultural Products Transportation Environment. Advanced Materials Research.
[4] Paggi, M., & Fuller, S. (1979). Congestion in the Agricultural Marketing Transportation System: A Case Study.American Journal of Agricultural Economics.
[5] Fasina, S. O., Akanmu, A. A., Adesanya, A. O., & Salisu, U. O. (2020). Assessment of Agricultural Freight Transportation Systems.Journal of Logistics and Transport.
[6] Ahumada, O., & Villalobos, J. R. (2009). Application of Planning Models in the Agri-Food Supply Chain.European Journal of Operational Research.
[7] Verdouw, C. N., Wolfert, J., Beulens, A. J., & Rialland, A. (2016). Virtualization of Food Supply Chains with the Internet of Things. Journal of Food Engineering.
[8] Sharma, A., & Kumar, A. (2019).Smart Transportation System for Agricultural Products using ICT
[9] Kumar, P., Singh, R., & Kumar, S. (2017).*Supply Chain Management of Agricultural Products in India.*International Journal of Supply Chain Management.
[10] FAO – Food and Agriculture Organization (2017).*Food Loss Analysis: Causes and Solutions in Agricultural Supply Chains*



10.22214/IJRASET

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