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Abstract:

In the modernized world of technologies, there is also urge for farmers to cope up with modernization and use technology wisely. This anticipated work designates to address many problems for modernizing Indian agricultural supply chain system. We would like to propose a user friendly platform, providing various features for farmers including farmers selling in advance before crop comes, ensuring it doesn’t get spoiled, making farmers not to get messed up with market yard visits, providing farmers to negotiate for reasonable prices. On the other hand this also ensures rural employment.

**Keywords**: Modernizing Indian agricultural supply chain system, user friendly platform, pre-booking for crops, avoiding commodity spoilage, huge data regarding farmers requirements such as farmers data, commodities data, cold storages and equipment’s, farmers network etc..,

Introduction:

As a part of this modernizing Indian agricultural supply chain, a platform named KisanRaj is being designed and developed where farmers can post commodities for sale (farm products), view commodities for purchasing or either look up all the equipment data that is available in their locality required for the purpose of cultivating crops such as tractors, sprayers and tillers etc..,

**Problems being face by farmers now:**

There are many problems being faced by farmers in india, and some of them which could be solved with our paper are discussed here:

1. Avoiding product spoilage: The first and foremost problem is that farm products get spoiled within days itself, such as tomatoes etc..,
2. Negotiate prices: General market scenario is that a farmer has to sell to market yards or local middlemen where the original price that a seller actually offers varies widely with what farmer gets for his work, just due to lack of market knowledge and network of famers to a small scale farmers at villages.
3. Market yard visits : Inorder to sale or purchase and make a deal or finish a transaction the farmer needs to go to market yard or need to maintain a continuous communication throughout, which leads to more number of visits, extra expenses and sometimes unnecessary visits, just for formality.
4. Requirements posting: Suppose a farmer wants a farm product in the coming days or next quarter, then there is no such flexible platform where a farmer could post a requirement and some seller responds to his post of requirement.
5. Equipment data : In the procedure of cultivation of products, farmers needs various equipment and farm materials such as tractors, sprayers, millers etc.., where a small scale village farmer doesn’t have a platform to know about nearest equipment which is free for slot to hire.
6. Bridge between buyers and sellers : There is no such direct system ever where a buyer can directly contact and communicate and negotiate with seller and make a transaction with clear transparency.

**KisanRaj web application as a platform:**

An online platform for farmers as a whole is being designed for and to provide functionalities to the users

Roles : The roles considered are buyer, seller and agent

1. Buyer : The one who is in requirement of farm products, and wanted to purchase is considered as Buyer and the buyer may be a farmer or an agent
2. Seller : The seller is the one who cultivates farm products and will be able to post products in platform with details
3. Agent : It is known that, most farmers in india are yet to know about the usage of technologies and online platforms. So it is required to have a helping hand in every village for farmers to help them in posting and making transactions.