



Aggregation – A Mobile Application for Farmers

TEAM DETAILS

Organisation: Kisan Forum Pvt. Ltd.

Tech-Bucket: Agriculture and Rural Development

Team Leader: Tarun Ganesh K

Team Name: Titans Cube

Problem statement: Create a mobile application for farmers that enable them to form groups and, buy and sell goods without means of a middle man.

IDEA:

- A **mobile app** to ease the communication between farmers, consumers and industries.
- Farmers of the same locality upon registration will be added together to form a group, which will further be divided into subgroups based on their type of produce, through which they can place bulk booking of the raw materials.
- The list of raw materials such as seeds, fertilizers and pesticides, sold by the government and private sectors are made available in the app along with the cost estimation.
- Farmers can notify the buyers before the harvest and decide on the selling price, so that produce don't stock up and eventually go as waste.
- Availability of machineries such as tractors and threshers for rent with the cost details will be listed.
- Regular update on the schemes available for the farmers.
- A e-commerce page where the farmers can sell their products to big buyers/retailers.

TECH STACK:

FRONT END:
HTML, CSS,
Android.

E-Commerce

Server Side :
NodeJS, Python, PHP,
JSP, other open APIs

Database : Mongo
Database, MySQL
Database

FARMER



SERVER



**WHOLE SALE
BUYERS/
CONSUMERS**



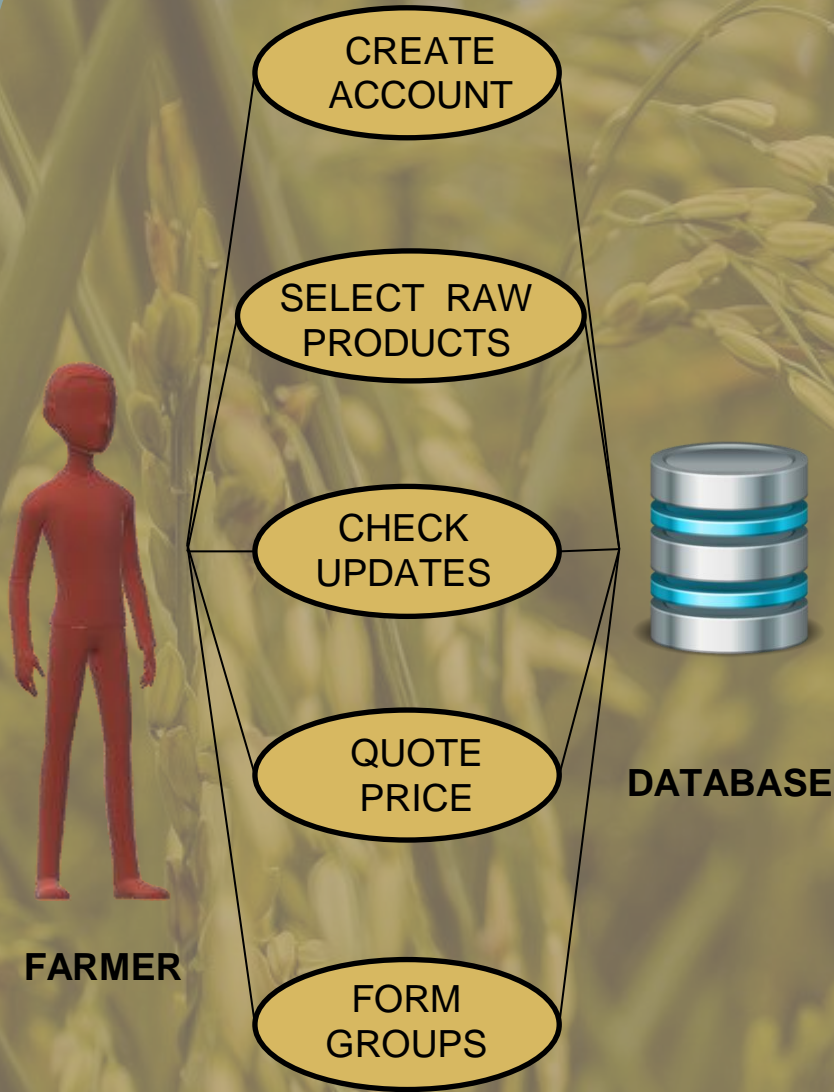
DATABASE



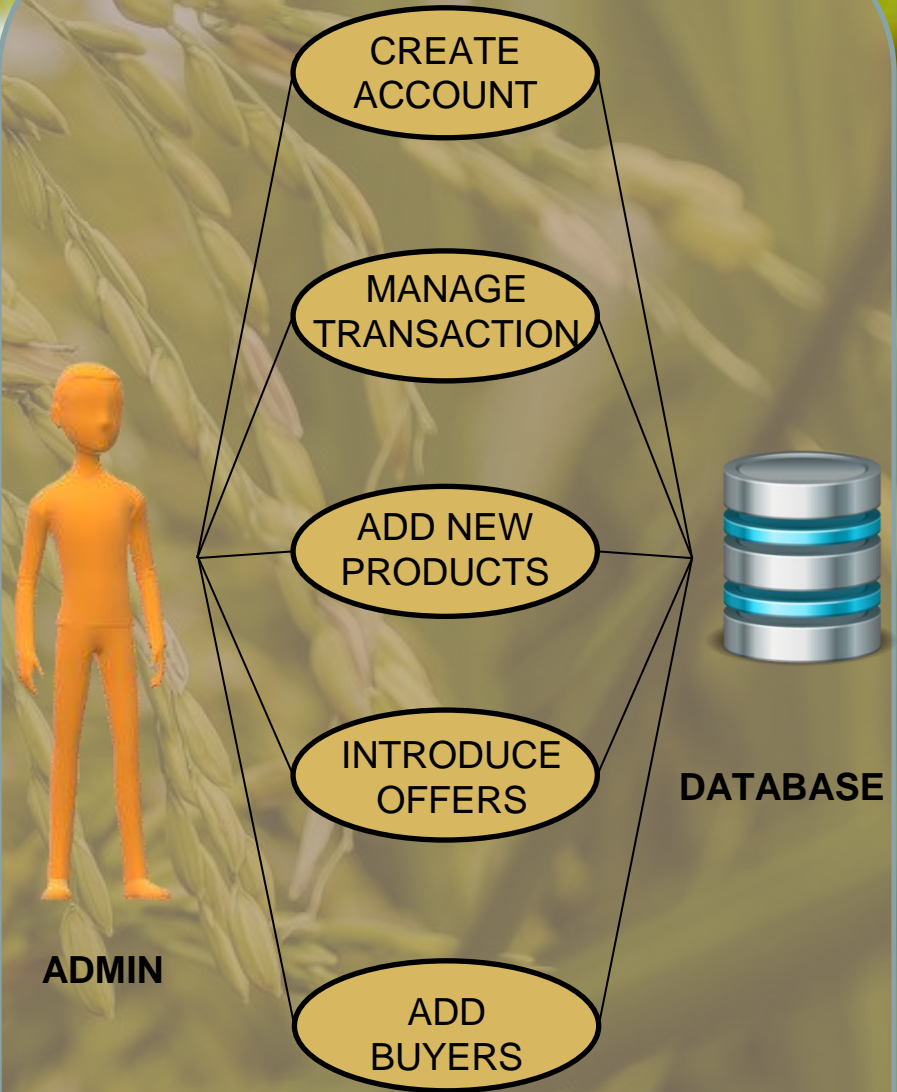
ADMIN



Farmer Use Case



Admin Use case



A photograph of a farmer wearing a straw hat and a light-colored shirt, plowing a field with two white oxen. The farmer is seen from behind, guiding the oxen. The ground is dark brown soil. In the foreground, a group of white birds, possibly egrets, are standing. The background is a dense line of green trees.

DEPENDENCIES:

- A Dataset of the raw material industries in the particular locality.
- Video tutorials(in at least 5 regional languages of India) to educate farmers and create awareness of the new schemes.
- Data about various schemes for loan that government provide for farmers.