HACK NITJ-2020

- **PROBLEM STATEMENT** : PORTAL FOR FARMERS
- **CATEGORY**: AGRICULTURE AND RURAL DEVELOPMENT
- **ORGANISATION** : CDK GLOBAL
- **PROBLEM CODE**: **#RA27**
- **TEAM NAME : HACKING BAD**
- **TEAM LEADER NAME :** ARSH GOYAL

Problem Statement Description

- System that provides farmers an interface to sell their produce , and connect with the buyers all over India
- Simple interface that works on mobile, SMS to upload produce details and respond via phone and SMS (taking care of digital divide)
- Interface for anyone to buy the produce/vegetable – initially visit the place and buy or have courier service integrated to deliver the vegetables .
- Technology that can be used as a platform for connecting car buyer to Seller
- Farmers can get a better price for their produce, no additional cost spent in marketing and delivery of goods , however they can choose to charge more by delivering the items themselves

Solution /Approach:

For Farmers :

- A **Web portal** where they can register and publish their production (with species , organic/ inorganic , quantity ,expected price) along with ,
- **SMS service** for farmers to update the details of their produce only from their verified mobile number , farmer can also opt to deliver good thus making extra income .

For Buyers :

- A **Web portal** where they register and can filter and sort the commodities on basis of parameters like :
  - Location
  - Species
  - Price per unit
  - Farmer Rating's
  - Q/A's
- The buyer then can bid with their offered price, from where the details of interested buyers along with their offered price is sent to the farmers .

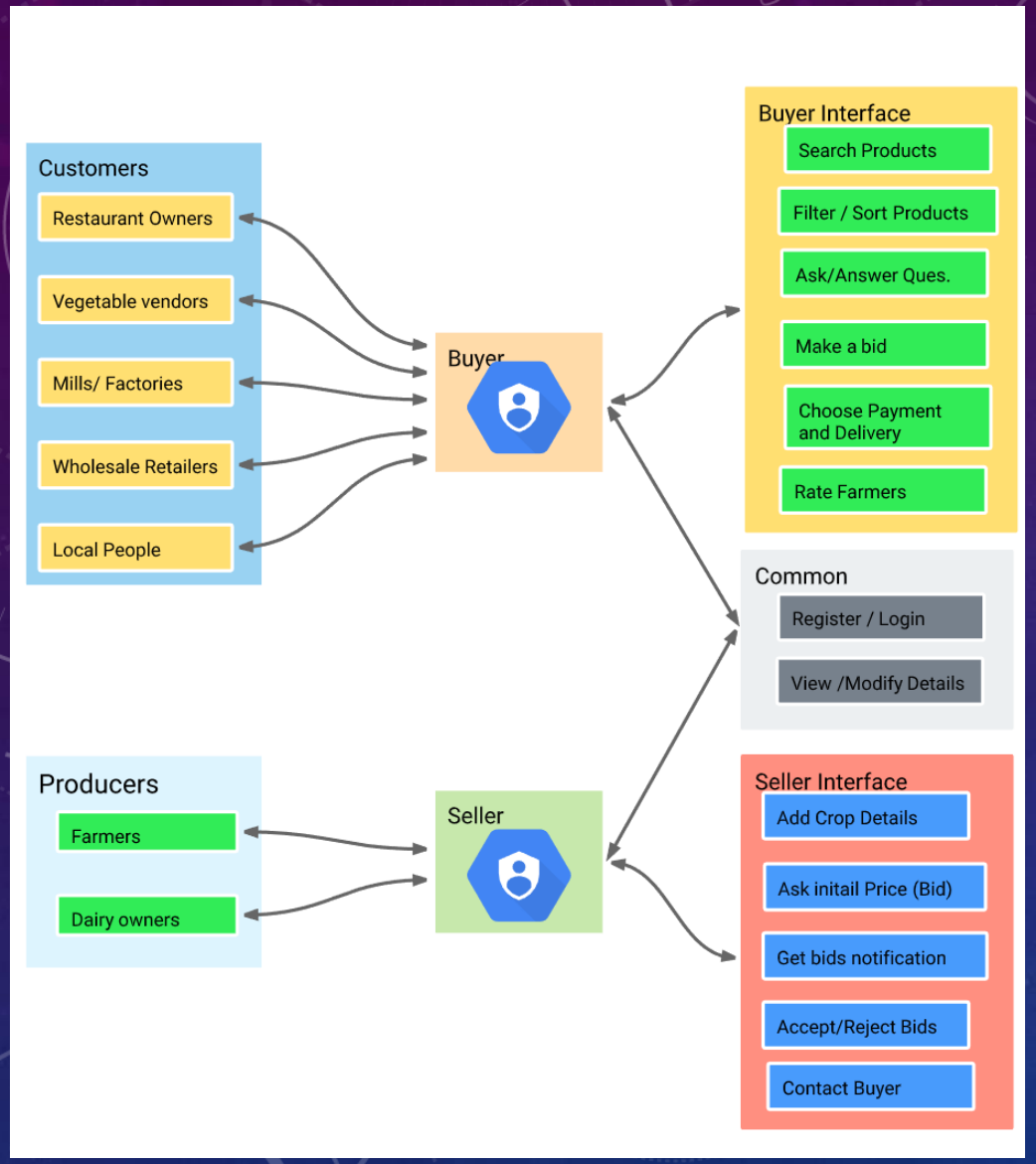
Once the farmer selects a bid, he can reach seller through in portal services and negotiate final price ,delivery method etc. with the buyer .Once final a entry is recorded and monitored into active transaction database with expected delivery date and agreed amount till payment and delivery is made ,

The payment of agreed amount is verified by farmer and delivery by buyer after which transaction is closed buyer can then rate the Farmer .

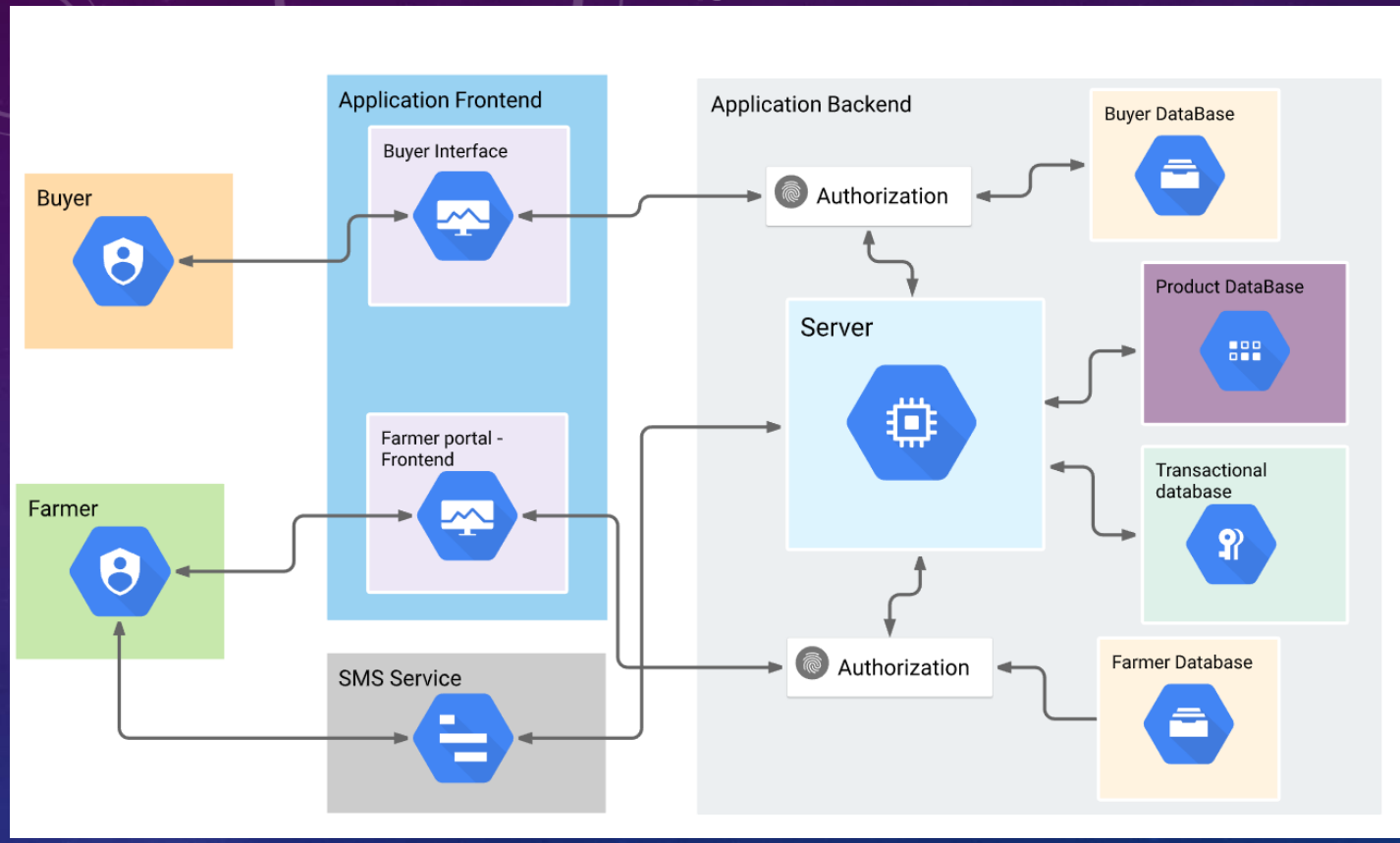
TECHNOLOGY STACK:

- **Front-Interface:**
  - HTML5,CSS3
  - Bootstrap
- **Database:**
  - MySQL/ Mongo DB
- **Server-Side:**
  - NodeJS/ Django
- **Algorithm :**
  - MD5/SHA1 (Encryption)

Use Cases :



Flow Diagram :



Dependencies:

- Secure Payment Gateway.
- Courier service to deliver the produce .
- SMS service