**A**

**PROJECT PROPOSAL**

**ON**

**AGRICULTRE PRODUCT MANAGEMENT DATABASE SYSTEM**

**TEAM NAME:** THE DBA’S

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**OBJECTIVES AND SCOPE**

* **Purpose:** To create a database model to help farmers to manage their agriculture activities and to buy seeds, fertilizers, pesticides. This model also assesses farmers regarding market prices. Database model acts as resource for farmers in which it provides information regarding agrochemicals and crop recommendations.
* **Type of Organization:** This database helps many organizations in Agriculture and Agrobusiness. Mainly **Farmers** can access crop information and agrochemicals. **Agrochemical** companies can market their products and help farmers**. Retailers and distributors** act as mediators between farmers and agrochemical companies.
* **Tasks:** 
  + Access product information
  + Connects farmers to agrochemical dealers
  + Provides product availability based on location.
  + Helps farmers with pest issues for specific crops.
* This database model is for **Retail and Information Management** within the agriculture sector. The **Agriculture & Agrochemical Industry** uses this database model. It meets the requirements of farmers, agronomists, crop advisors, and agricultural suppliers.
* This database model is for **Enterprise Level**, which businesses in the agriculture sector use for product listings, marketing, customer support and supply chain management. This addresses all the needs within Enterprise.

**USERS REQUIREMENTS**

* The database will have information on suppliers, goods, and farmers interactions, which helps to analyze the following:  
  + Product performance in various geographic areas.
  + Vendor product performance is determined by products availability for a specific time and from farmers satisfaction.
  + Pests and Crop issues can be identified and handled by farmers.
* Database model serves as backend for web applications in which **farmers** can access data & search for the products related to crops, **Vendors** upload their products details and stock availability, Advisors (**Agronomists**) submits recommendation for specific crop in specific region.
* There are some restrictions based on the type of users. There is control regarding the access at field level in which **Farmers** can only access their product listings. **Vendor** can only upload the product details, their availability and can view their order. **Agronomists** can just submit the recommendation. **Admins** have all over control.
* Database supports **multiple user concurrency** in which Farmers, vendors, Agronomists can access the system without data conflicts.