Crop Deal Management

**POC**

Current Document Version: [*1.0*]

Low Level Design

Date: 07-09-2022

DOCUMENT APPROVAL

Approve of this document:

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| --- | --- | --- | --- | --- |
| **Name** | **Department** | **Role** | **Signature** | **Date** |
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**Document Purpose :**

This document describes the Low level Design for the Crop deal management.

**Project Background :**

This Crop deal management system is leads to manage platform where farmers and dealers can register them self to do various operations.

**Project Objective:**

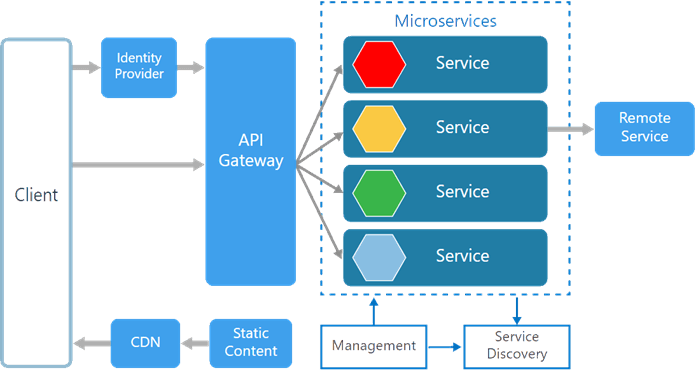
This Crop deal management system will perform various operations where the farmer can list

And sell his products directly to the dealer by adding his location quantity and desired price who is looking for the product using the same platform.

**Design Pattern**

|  |  |  |
| --- | --- | --- |
| # | Name | Description |
| 1 | Angular | Angular for the front end and  Designing of the application |
| 2 | API | Using HTTP requests, we will use the respective action to trigger various operations |
| 3 | SQL Server | SQL server is used to store the data in database |

**Solution Diagram**



**Solution Steps**

Registration

User will enter the required details such as first name, last name, email, phone number, gender, age, role and click submit button browser directs the request to customer registration API.

Farmer Listing

If the farmer wants to get his details. enters the id in parameter for which farmer wants to see the details. browser directs the request to Farmer List API

Farmer Upgradation

If the Farmer wants to update the details enters the id and the details which farmer wants to update the details. browser directs the request to farmer update API

Farmer Deletion

If Farmer enters the id in parameter for which farmer wants to delete the details. browser directs the request to farmer deletion API

Particular Farmer Listing

If Admin wants to get the particular farmer details. enters the id in parameter for which farmer he wants to see the details. browser directs the request to farmer List API

Dealer Listing

If the dealer wants to get his details. enters the id in parameter for which dealer wants to see the details. browser directs the request to dealers List API

Dealer Upgradation

If the dealer wants to update the details enters the id and the details which dealer wants to update the details. browser directs the request to dealer update API

Dealer Deletion

If dealer enters the id in parameter for which dealer wants to delete the details. browser directs the request to dealer deletion API

Particular Dealer Listing

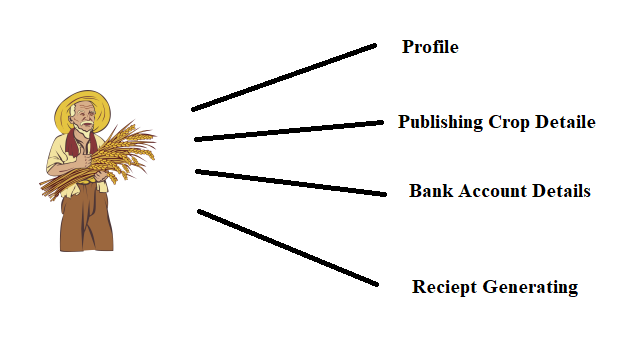
If Admin wants to get the particular dealer details. enters the id in parameter for which dealer he wants to see the details. browser directs the request to dealer List API

**Features:-**

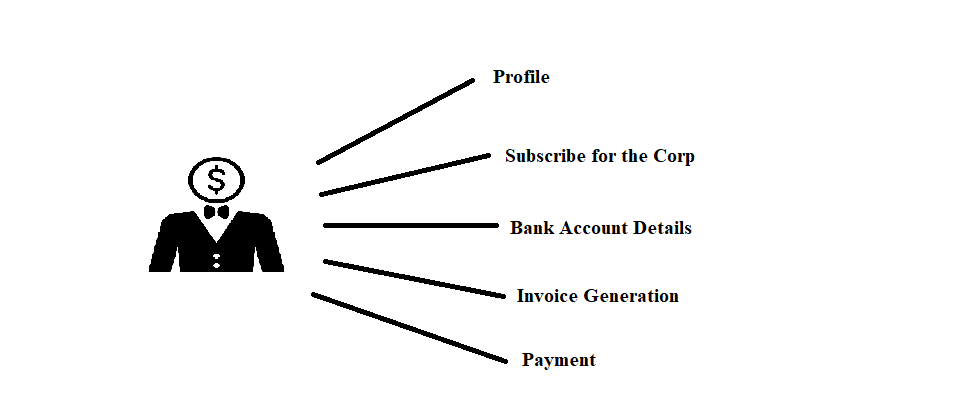
1. Registration/log in/Sign up
2. Profile
3. Publishing corp details
4. Bank Account details
5. Generating receipt
6. Subscribing for the corps details
7. Invoice generation
8. Payment
9. Activating and inactivating profiles
10. Add-On Management
11. Report Management
12. Advance report Management

**Module**

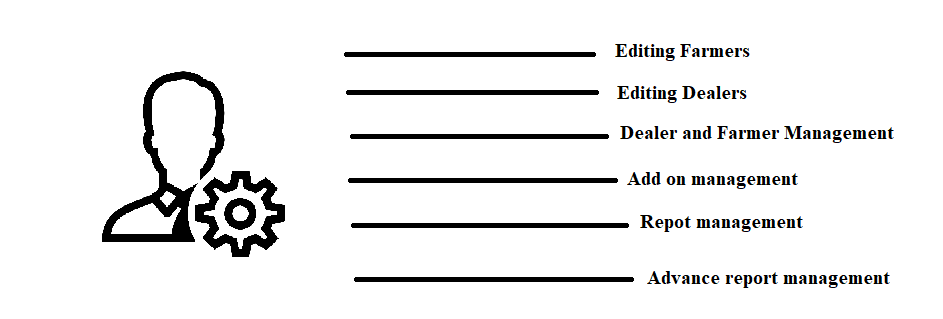
Farmer



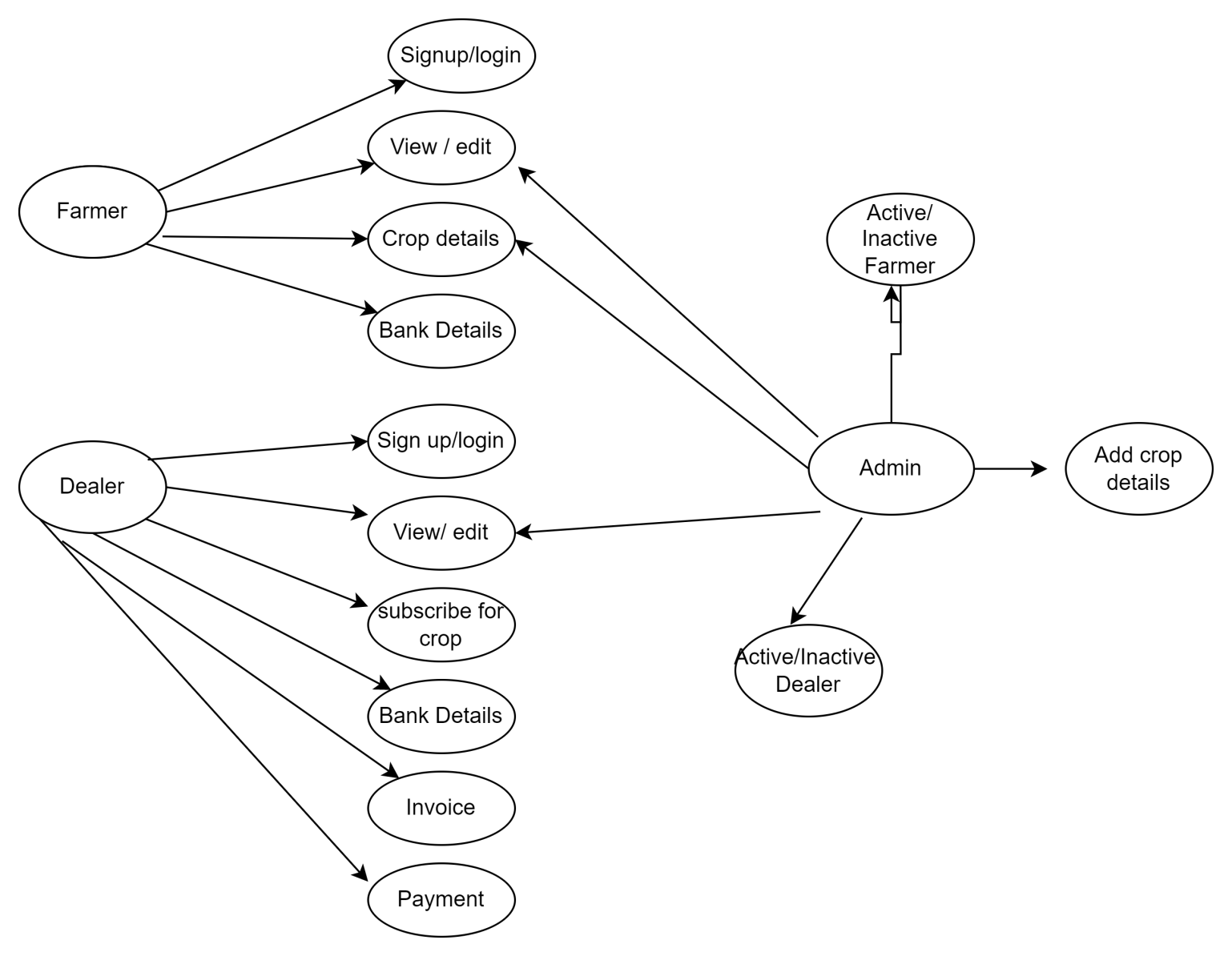
Dealer



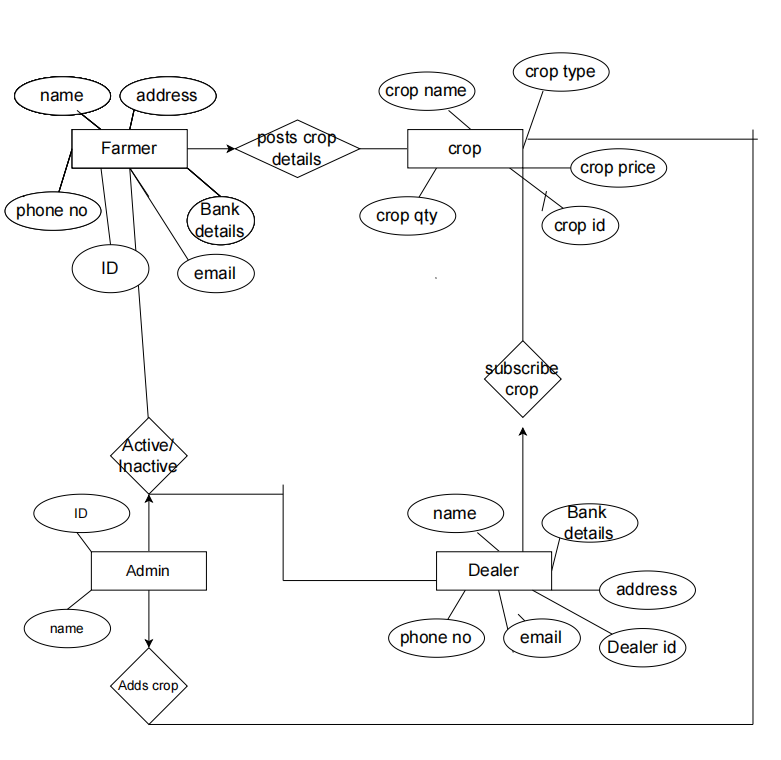
Admin



**Use Case Diagram**



**ER Diagram**

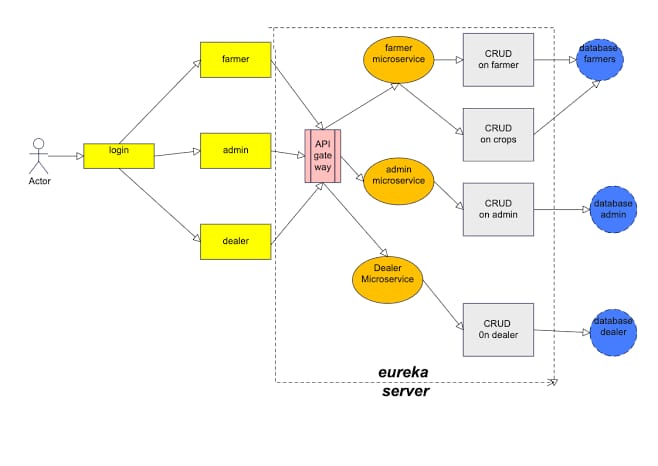


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**Architecture Diagram**



**Tables**

Registration

|  |  |  |  |
| --- | --- | --- | --- |
| **Column1** | **Column2** | **Column3** | **Column4** |
| PK | UserID | INT | auto increment |
|  | UserName | varchar |  |
|  | UserPhoneNo | BIG INT |  |
|  | UserEmail | varchar |  |
|  | UserPassword | varchar |  |
|  | UserAddress | varchar |  |
|  | UserType | varchar |  |
|  | UserAccNo | BIG INT |  |
|  | UserIFSCCode | varchar |  |
|  | UserBankName | varchar |  |
|  | UserStatus | varchar |  |

Overall Crop Details

|  |  |  |  |
| --- | --- | --- | --- |
| **Column1** | **Column2** | **Column3** | **Column4** |
| PK | CropID | INT | auto increment |
|  | CropName | varchar |  |
|  | Crop Image | varchar |  |

Crop publish details

|  |  |  |  |
| --- | --- | --- | --- |
| **Column1** | **Column2** | **Column3** | **Column4** |
| PK | CropSaleID | int | auto increment |
| FK | CropID | int |  |
| FK | FarmerID | int |  |
|  | CropName | varchar |  |
|  | CropType | varchar |  |
|  | CropQTY | int |  |
|  | CropPrice | float |  |

Receipt

|  |  |  |  |
| --- | --- | --- | --- |
| **Column1** | **Column2** | **Column3** | **Column4** |
| PK | InvoiceID | int | auto increment |
|  | CropName | varchar |  |
|  | CropType | varchar |  |
|  | CropQTY | int |  |
|  | CropPrice | float |  |
|  | Total | double |  |
| FK | FarmerID | int |  |
| FK | DealerID | int |  |
|  | OrderDate | Date |  |

Admin Table

|  |  |  |  |
| --- | --- | --- | --- |
| **Key** | **ADMIN LOGIN TABLE** | **DataType** | **Column1** |
| PK | Admin\_ID | INT | auto increment |
|  | AdminUname | varchar |  |
|  | AdminPassword | varchar |  |

# API Canvas

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Micro Service | Path | Verb | API Description | Role | Auth |
| User management | /users | POST | user registration | No | True |
| User management | /users | GET | To get user list | Admin | True |
| User management | /users | PUT | To update user details | No | True |
| User management | /users/id | GET | To get details of a particular user | No | True |
| User management | /users/id | DELETE | To remove the user | Admin | True |

# HTTP Status Code

201 – Customer Registered

200 - Request succeeded

400 – Inputs are invalid

404 – Customer Not found

502 – Bad gateway