**Entity-Relationship Diagram (ERD) for MzuriFarming Platform**

**Entities and Attributes**

1. **Users**
   * UserID (PK)
   * Username
   * PasswordHash
   * Email
   * Role
   * CreatedAt
2. **Farmers**
   * FarmerID (PK)
   * UserID (FK)
   * FullName
   * PhoneNumber
   * Location
   * FarmSize
3. **Crops**
   * CropID (PK)
   * CropName
   * ScientificName
   * AverageYield
4. **WeatherData**
   * WeatherID (PK)
   * Location
   * Date
   * Temperature
   * Humidity
   * Rainfall
   * WeatherCondition
5. **SoilConditions**

* SoilID (PK)
* Location
* pH
* OrganicMatter
* Nitrogen
* Phosphorus
* Potassium

1. **CropYield**
   * YieldID (PK)
   * FarmerID (FK)
   * CropID (FK)
   * Year
   * Yield
2. **Subscriptions**
   * SubscriptionID (PK)
   * UserID (FK)
   * Plan
   * StartDate
   * EndDate
   * Status
3. **Reports**

* ReportID (PK)
* UserID (FK)
* ReportType
* GeneratedAt
* ReportData

1. **ConsultingRequests**

* RequestID (PK)
* UserID (FK)
* RequestDate
* Status
* Description

**Relationships**

1. **Users and Farmers**

One-to-One: Each farmer is a user. UserID in Farmers references UserID in Users.

1. **Farmers and CropYield**

One-to-Many: A farmer can have multiple crop yields. FarmerID in CropYield references FarmerID in Farmers.

1. **Crops and CropYield**

One-to-Many: Each crop can have multiple yield records. CropID in CropYield references CropID in Crops.

1. **Users and Subscriptions**

One-to-One: Each user has one subscription. UserID in Subscriptions references UserID in Users.

1. **Users and Reports**

One-to-Many: Each user can generate multiple reports. UserID in Reports references UserID in Users.

1. **Users and ConsultingRequests**

One-to-Many: Each user can make multiple consulting requests. UserID in ConsultingRequests references UserID in Users.

**ERD Diagram**

Below is a textual representation of the ERD using draw.io.

Draw.io link: <https://drive.google.com/file/d/1jKq7i6VyEU49bNBe1Ya78IXtdDXZWilQ/view?usp=sharing>