**Ministry/ Organization name:** CDK GLOBAL

**Problem Statement:** PORTAL FOR FARMERS TO SELL THEIR PRODUCE AT A BETTER RATE

**Team Name:** DATA PIRATES

**Team Leader Name:** SANDHYA BHAN

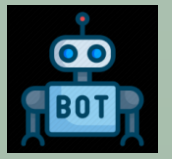
**College Code:**

# SOLUTION:

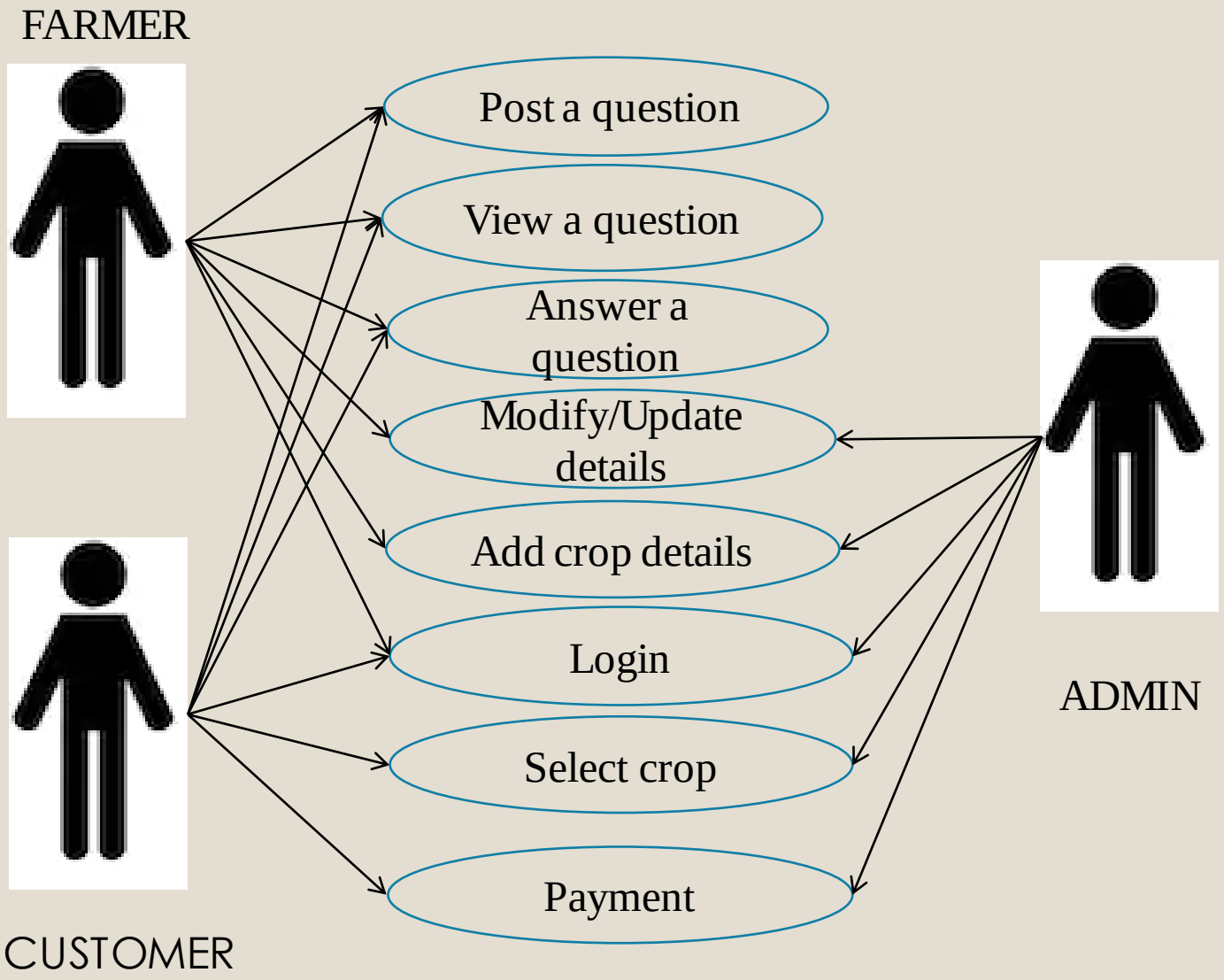
- **FARMER INTERFACE:**
  - Farmer provides crop information which will be saved in the database using SQL.
  - Opt for courier/physical delivery .
  - Statistical representation showing farmers progress over time.
- **CUSTOMER INTERFACE:**
  - Variety of crops as searched by the customer is displayed.
  - Savings possible(Portal Price < Market Price) through statistical .
  - Opt from given payment modes as convenience.
  - Ratings will be provided to product of farmer based on customer feedback.
- **HELP/GUIDANCE:**
  - Assistance provided to low rated farmers by pre-registered organisations.
  - Organisations such as fertilizer producing companies and soil testing labs.
  - Helpline numbers of pre-registered organisations provided on the portal.
- **FORUM FOR CUSTOMERS AND FARMERS:**
  - Creation of Q&A forum for farmer and consumer interaction.
  - Already answered queries will be displayed by BOT.
  - Specific results provided based on the keywords.
- **MESSAGING/CUSTOMER CARE:**
  - SMS and Mobile Computing facility provided for farmers devoid of internet connection.
  - Updating the status of crops through SMS.
  - Q&A facility also through SMS.
  - Toll-free number available 24/7.

## TECHNOLOGIES USED:

- Machine Learning algorithms such as KNN, K-Means and NLP.
- Artificial Intelligence.
- Data Visualization.
- Website on cloud.



# USE CASE DIAGRAM




## DEPENDENCIES:

- Database on crops.
- Feedback from customers.
- Courier service