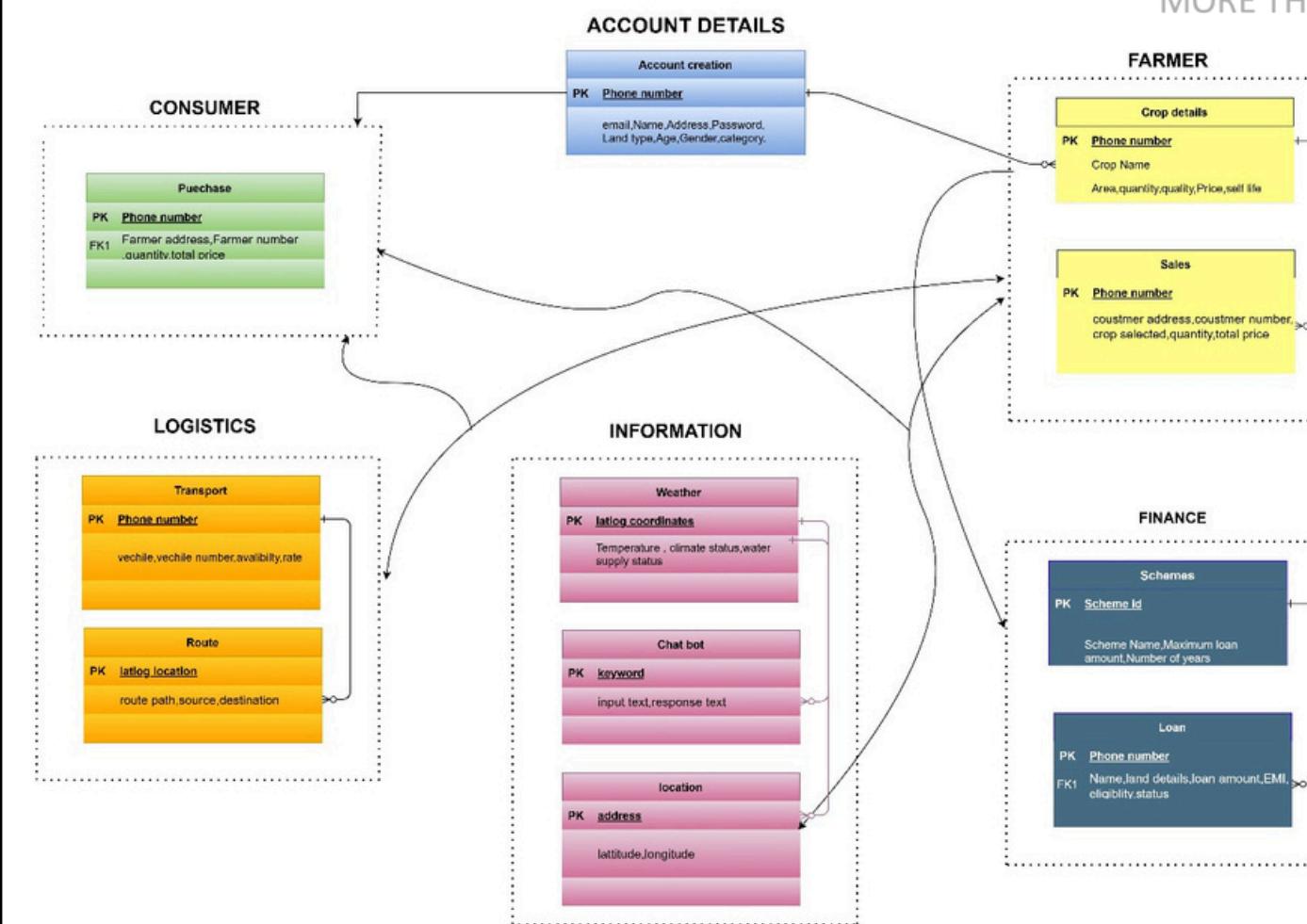




# ARCHITECTURAL DESIGN



## SOFTWARE TOOLS USED:

- 1.React JS
- 2.Python
- 3.HTML + CSS
- 4.Mongodb
- 5.Node JS
- 6.Render
- 7.Postman

Number of API's Used: 8 +3

## CHAT BOT API's:

- 1.Agomonitor API - for providing approximate soil properties.
- 2.Weather Monitor API- for realtime weather prediction.
3. AI prompts- Integration of API to backend.
4. AI prompt- Various steps in calling and validating API's.

## Weather Monitor API :

- 5.AI/ML & API Websites used Open WeatherMap API (for fetching weather forecasts).
- 6.Used for retrieving 3-day weather forecasts based on location.FastAPI (Python Web Framework).
- 7.Logistic- Used to create the backend API for weather prediction.Uvicorn (ASGI Server for FastAPI).
8. Openstreetmap-Shortest route Calculation.

## AI TOOLS

- 1.Agomonitor API.
- 2.OpenWeatherMap API.
- 3.Ast API (Python Web Framework)
- 4.. OpenAI GPT (LLM)