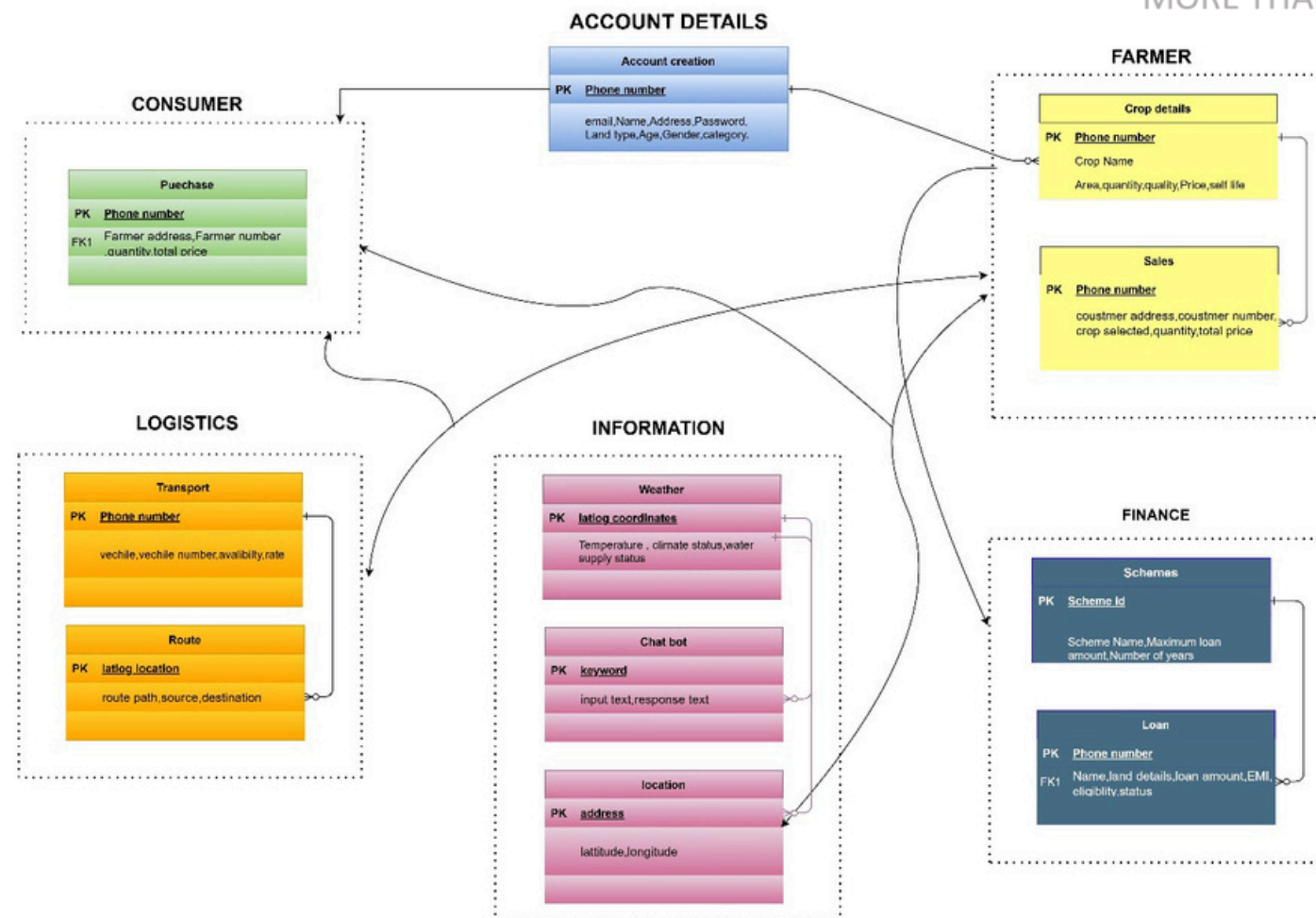




ARCHITECTURAL DESIGN



CHAT BOT API's:

1. Agromonitor 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.

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

AI TOOLS

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