Farmer's Friend(FOF)

Domain Bucket : Agriculture and Rural Development **Category : Software**

Ministry / Organization Name : CDK Global **Problem Statement Number : RA28**

Problem Statement :Crop Guidance and Farmers Friend

Team Name : Code Break
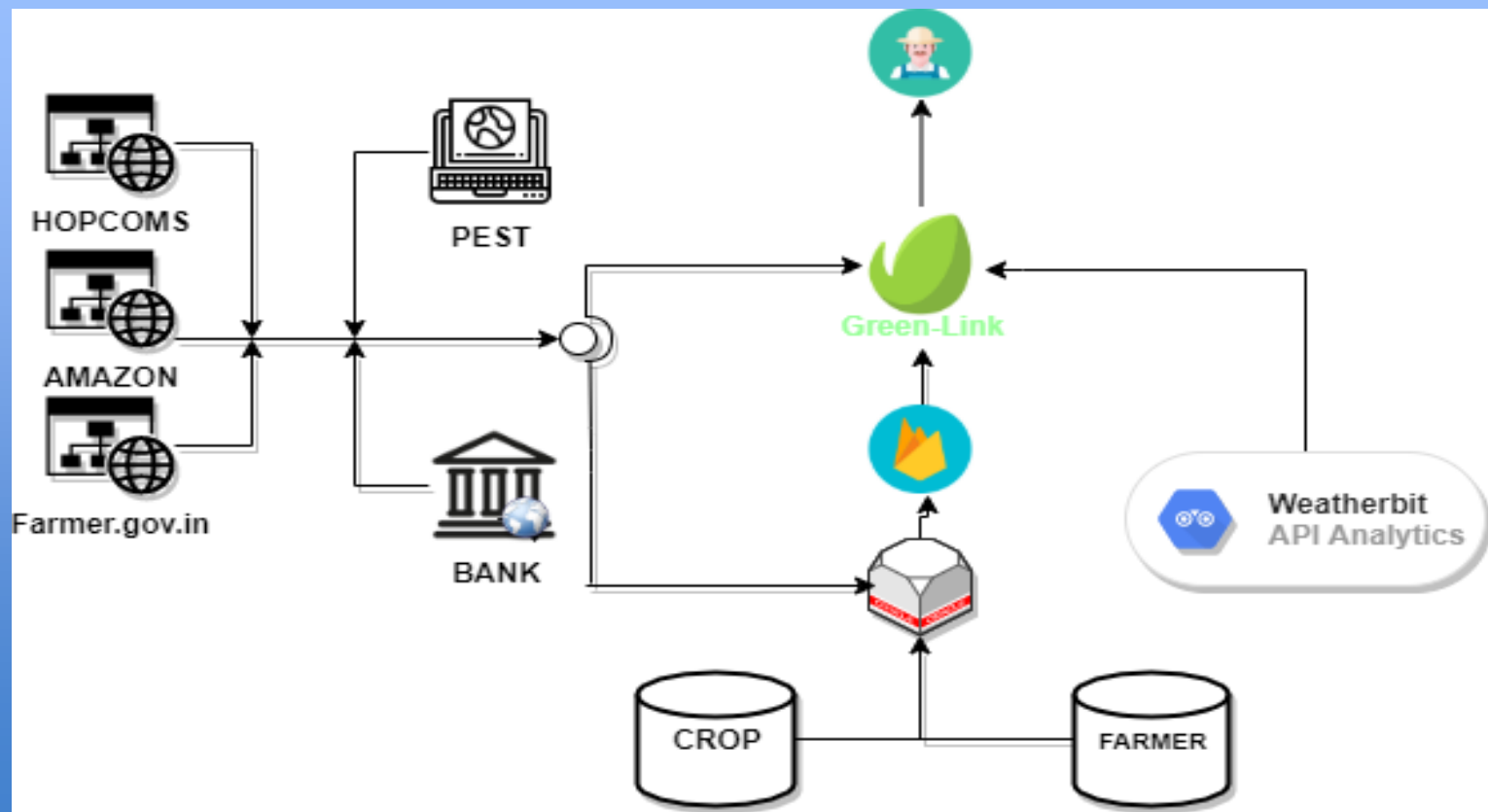
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Agriculture is the major sector of the Indian economy contributing to one-third of Indian GDP and farmers are the backbones of society. Even though it yields employment to 60% of the population there is some dilemma faced by the farmers due to inadequate knowledge of modern agriculture practices. This holds them from deploying modern technical resources.

The FOF focuses on providing the farmer point-to-point guidance throughout the farming process. Crop suggestion is done on the basis of season, weather conditions and requirements/demands in the market. It guides the farmer to take precautionary measures during unduly rains. Red alerts are notified during the pest attack. It easies the purchase of agricultural tools from the online market and also automates the banking process thereby helps in managing the expenses. Crop price is estimated based on the market rate. A Chatbot assists the farmer with their queries. Revenue for the company is generated from ads of the agricultural tools and bringing out premium features after one harvest.
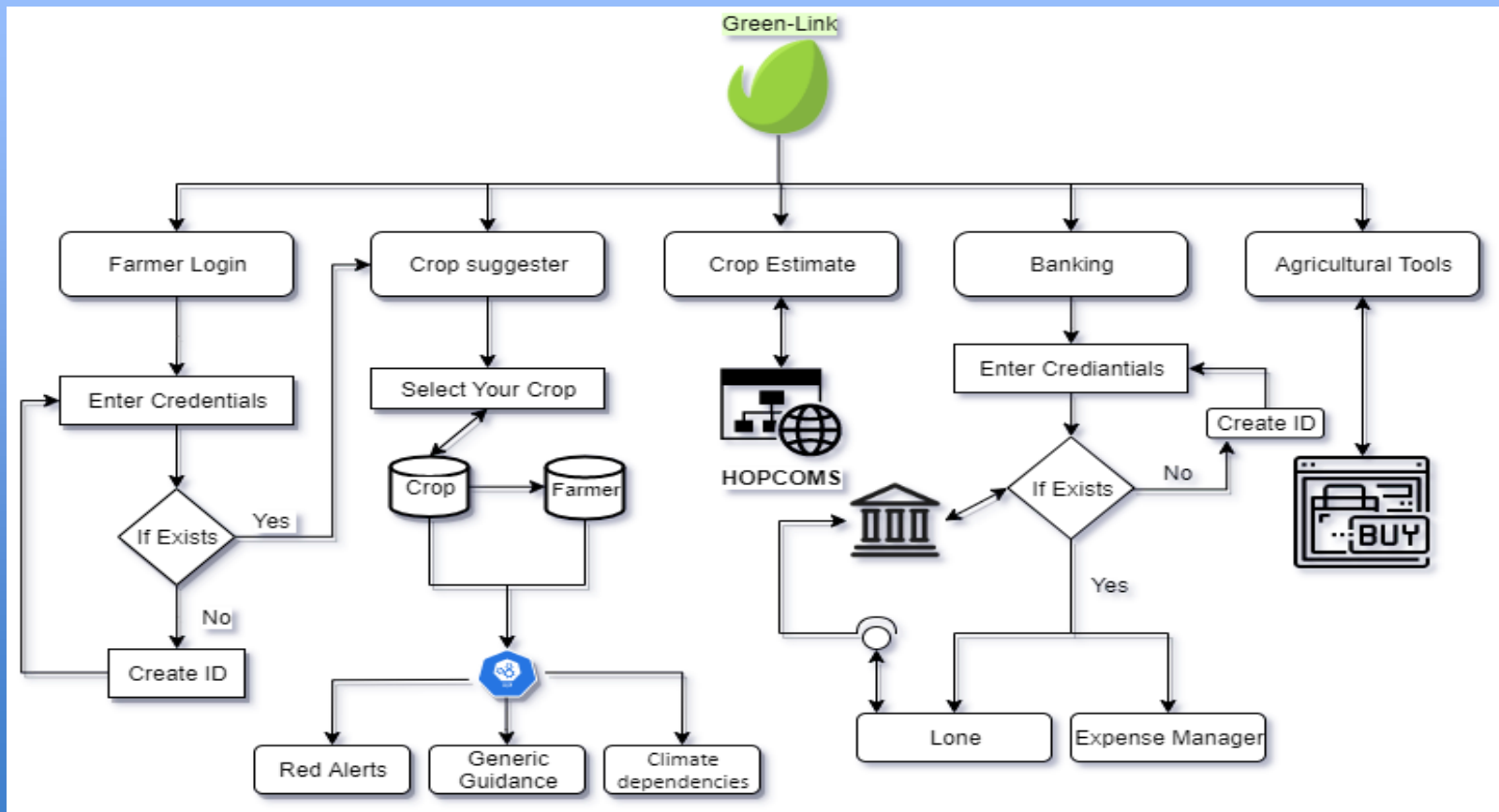
Idea / Approach details

BLOCK DIAGRAM

Idea / Approach details

Idea / Approach details

Technology stack

- Android studio.
- Firebase.
- Natural language processing.
- JavaScript , SQL , HTML.
- DBMS System.

Use Case

- Designed for Farmer.
- Home gardening.
- Organic farms.

Dependencies / Show stopper

- Accuracy of global weather modals.
- Poor online netwok for Cooperative banks.
- Poor network connectivity.