**Solution:**

1. **For basic requirement (Concept):**

* **Record diary entry:**
* **Build a database for storing the diary entry:**

Need to build the database with many different tables and each table with different type of column for storing different diary information.

Note: When sync data from other mobile devices and other farm services, we need to set a lock to the table for avoiding write same data in the same time. Besides, we need to truncate the data we received and store them into database.

* **Vision for the platform:**
* **“Connect” each other:**

“connect someone around the district who might have the same interests in the same crops.”

* Need to store each users’ geo-coordinate info.
* Need to store each users’ interest crops info.
* Need to store relationship between people who are connected:

Note: When someone wants to connect to other, they need to send a request. After the other accept that, put these two people ID into relationship table.

* **“Like & Command” connected friend post:**
* Need a table for storing who post something in the platform.
* Need a relationship table for storing each user’s relationship with each post they can see，and storing the like status and comment text for each relationship.
* **Cross-Platform:**

We can make the platform like web-based, so it is suitable for all kinds of platform.