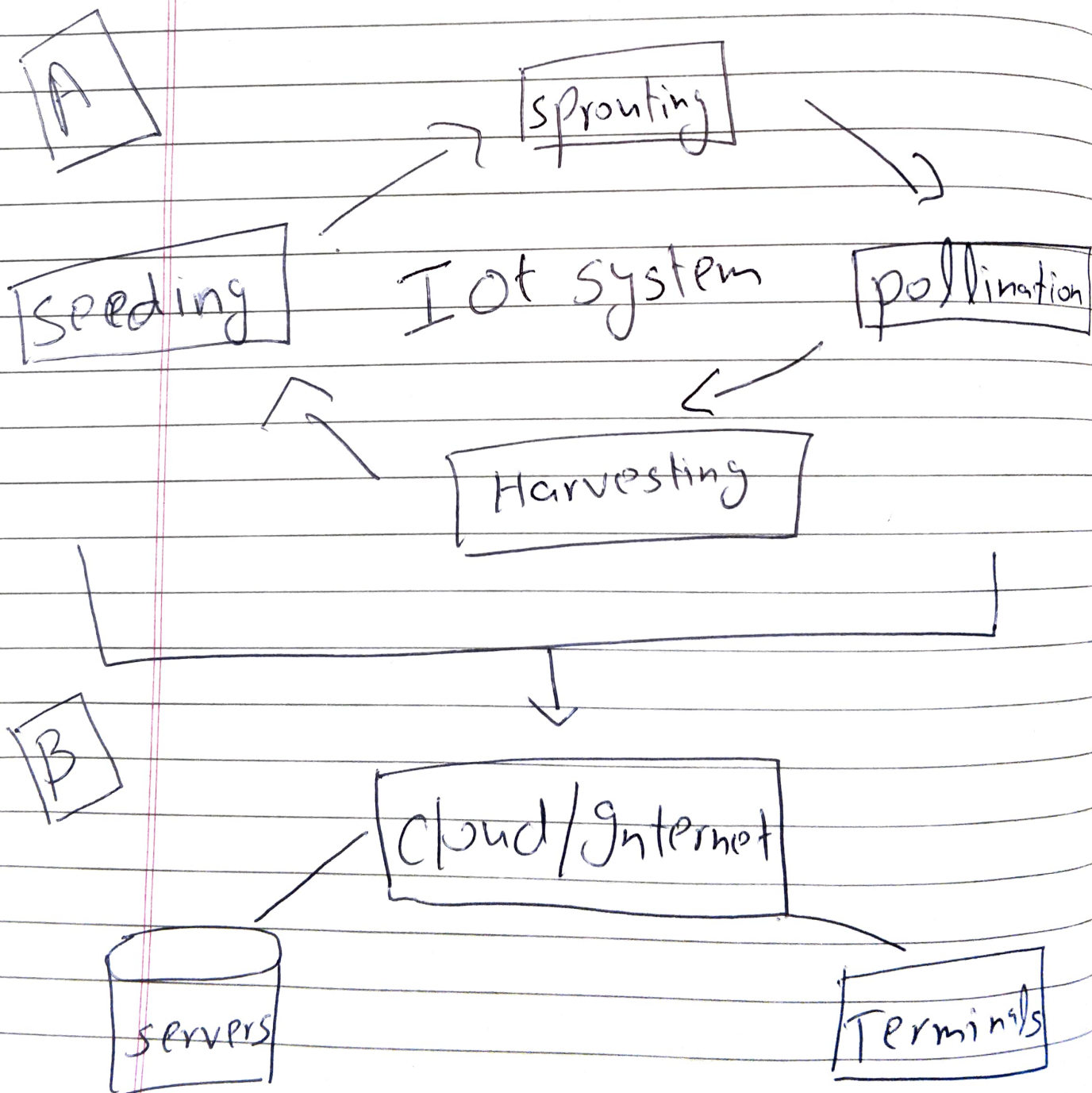


IOT in Agriculture

classmate

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How things will work?



Part A:

The part A of the system basically will involve various techniques and operations in carrying out agricultural processes.

Most of the operations will require sensors. As there are already equipment out there, we will be working mostly on optimizing the system by applying algorithms.

Type of sensors involved:

- (i) Temperature
- (ii) Photosensitive
- (iii) Pressure
- (iv) Humidity
- (v) CO_2
- (vi) Soil.

Sensors will be connected to a control system which analyses

all the values of sensor and operate accordingly.

Functions that can be performed using IOT devices?

→ In a closed environment, like a controlled environment agriculture. Iot devices and communication devices will be used to capture parameters like: Temp, humidity, pressure. And this data can be well stored in data centers and passed to the control systems which can use it to determine the most optimal condition for a crop and can use actuators to adjust the environmental conditions accordingly.

→ OPEN Field farming
↳ It will require more sensors and other factors will also be involved in the setup.

Operations that can be performed: -

- ↳ Crop growth monitoring
- ↳ Infection / disease detection.
- ↳ Precision irrigation.

TOPIC : IOT in AG-TECH

Outlines

- ↳ Abstract [Information about research measures that can be performed to enhance & digitalise AG-TECH]

↳ SMART FARMS

- ↳ Autonomous infrastructure
- ↳ Controlled farming with the help of sensors
- ↳ Predictive analysis of the crop.
- ↳ Normal farm v/s SMART FARM

↳ Architecture

- ↳ sensors involved
- ↳ connection with control system

- ↳ Connectivity to cloud / Internet
- ↳ Data storage.
- ↳ User Interaction with framework.

↳ Conclusion

↳ References.