Project Design Phase-II

Technology Stack (Architecture & Stack)

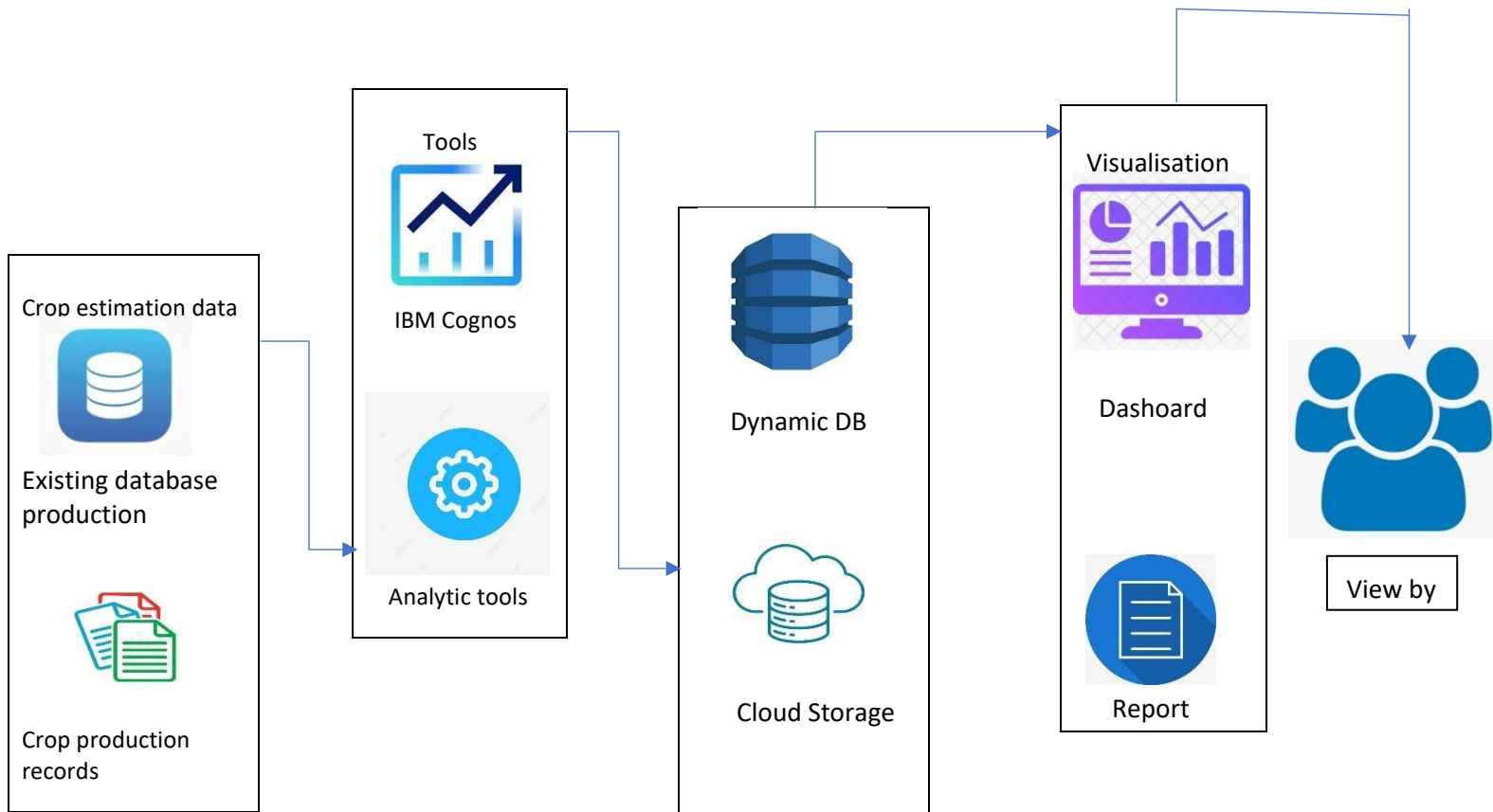| Date	20 October 2022
Team ID	PNT2022TMID19924
Project Name	Estimate The Crop Yield Using Data Analytics
Maximum Marks	4 Marks

Technology Stack (Architecture & Stack)

Table - 1: Components & Technologies:

S. No	Components	Technology
1.	User Interface	HTML
2.	Application Logic-1	Python
3.	Application Logic-2	IBM Watson STT service
4.	Application Logic-3	IBM Watson Assistant
5.	Database	MySQL, NoSQL, etc.
6.	Cloud Database	IBM Cloudant
7.	File Storage	IBM Block Storage or Other Storage Service or Local Filesystem
8.	External API-1	IBM Weather API, etc.
9.	External API-2	Aadhar API, etc.

10.	Machine Learning Model	Object Recognition Model, etc.
11.	Infrastructure (Server / Cloud)	Local, Cloud Foundry, Kubernetes, etc.

Table-2: Application Characteristics:

S. No	Characteristics	Technology
1.	Open-Source Frameworks	Technology of Opensource framework
2.	Security Implementations	SHA-256, Encryptions, IAM Controls, OWASP
3.	Scalable Architecture	Technology used
4.	Availability	Technology used
5.	Performance	Technology used