

**Project Design Phase-II Technology
Stack (Architecture & Stack)**

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Project Name	Digital Naturalist - AI Enabled tool for Biodiversity Researchers
Maximum Marks	4 Marks

Technical Architecture:

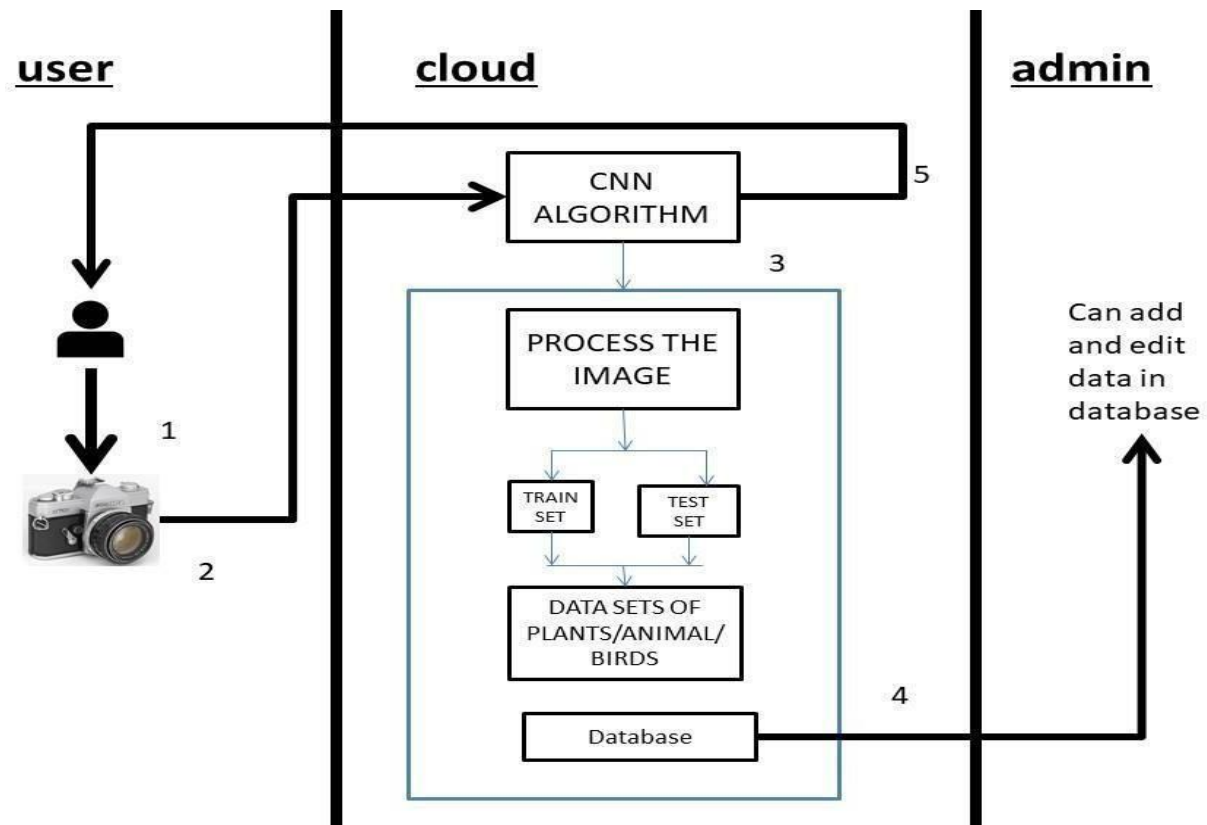


Table 1 : Components & Technologies:

S No	Characteristics	Description
1	Scalable Architecture	Capacity of the application to handle growth, especially in handling more users.
2	Open-Source Framework	Open-Source frameworks for data preprocessing, web application and model training
3	Availability	Without near 100% availability, application reliability and the user satisfaction will affect the solution.
4	Performance	How the application is functioning and how responsive the application is to the end-users depending on the performance of IBM cloud platform.

Table-2: Application Characteristics:

S.No	Component	Description
1	User Interface	Web UI or Website
2	Application Logic – 1	Image upload
3	Application Logic – 2	Display search history
4	Image Recognition Model	To predict the species (flora and fauna) through image provided
5	Infrastructure (Server/Cloud)	Application Deployed on cloud server

