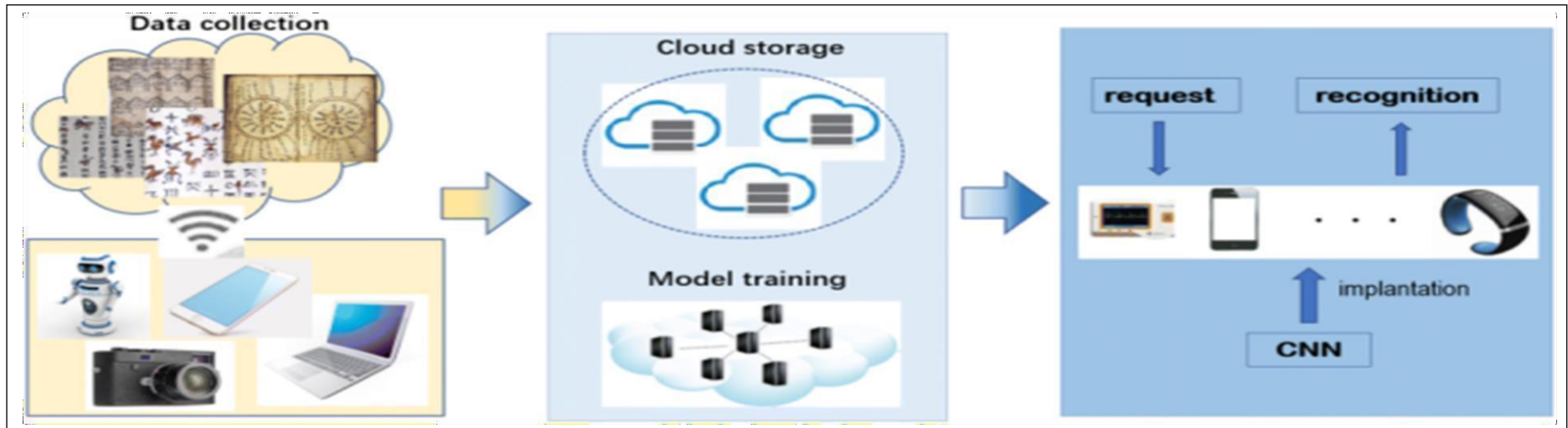


Project Design Phase-II

Technology Stack (Architecture & Stack)

Date	14 October 2022
Team ID	PNT2022TMID46193
Project Name	Project - A Novel Handwritten Digit Recognition System
Maximum Marks	4 Marks

Technical Architecture:



Third Party API'S:

External API-1	Purpose of External API used in the application	IBM Weather API
External API-2	Purpose of External API used in the application	Aadhar API

Open-source Frameworks:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Technology of Opensource framework
2.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	SHA-256, Encryptions, IAM Controls, OWASP

S.No	Characteristics	Description	Technology
3.	Scalable Architecture	Justify the scalability of architecture	3 – tier, Micro-services
4.	Availability	Abstract and Figures. The features for handwritten digit recognition have been introduced. These features are based on shape analysis of the digit image and extract slant or slope information. They are effective in obtaining good recognition accuracies	Distributed servers, IBM cloud
5.	Performance	The standard implementations of neural networks achieve an accuracy of ~ (98–99) percent in correctly classifying the handwritten digits.	number of requests per sec, use of Cache, use of CDN's