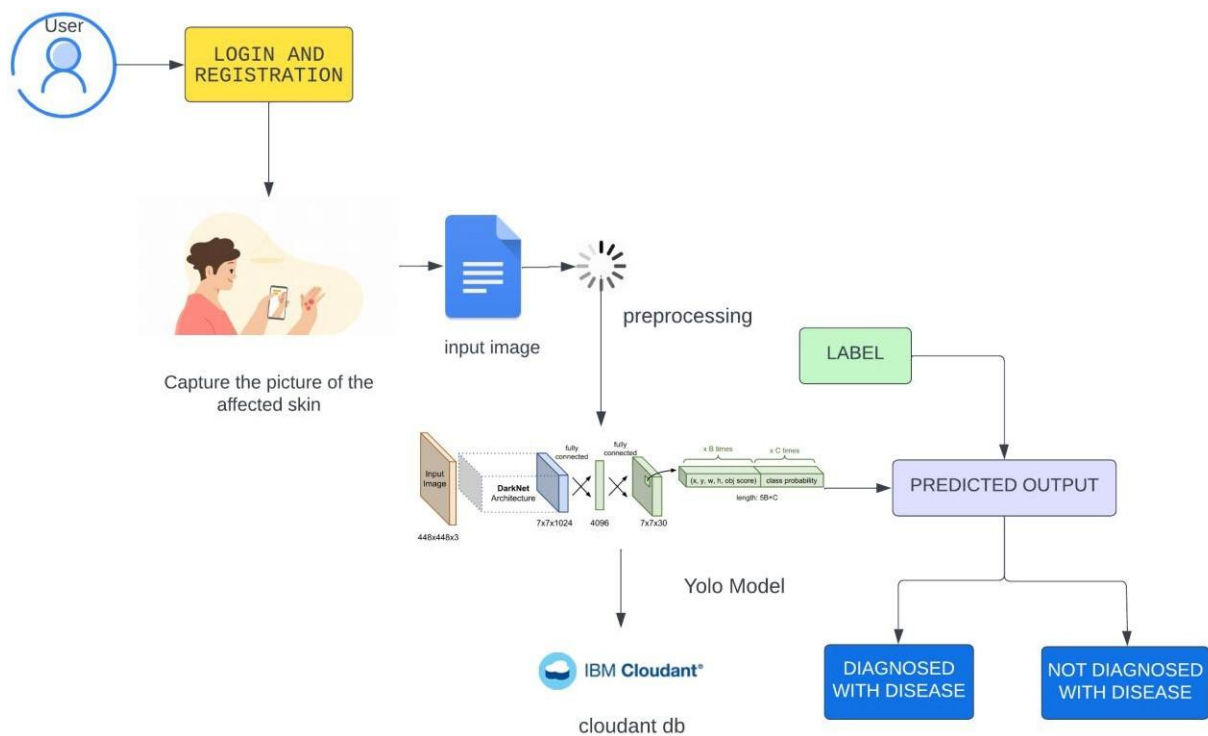


# Project design phase-II

Technology stack (Architecture & Stack)

Date	16 October 2022
Team ID	PNT2022TMID5270929468
Project name	AI based localization and classification of skin disease with erythema

Technical architecture :



**Table-1: Components & Technologies:**

S · N o	Component	Description	Technology
	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	HTML, CSS, JavaScript / Angular Js / React Js etc.
	Application Logic-1	Logic for a process in the application	Python
	Application Logic-2	Logic for a process in the application	IBM Watson STT service
	Application Logic-3	Logic for a process in the application	IBM Watson Assistant
	Database	Data Type, Configurations etc.	MySQL, NoSQL, etc.
	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem
	External API-1	Purpose of External API used in the application	IBM Weather API, etc.
	External API-2	Purpose of External API used in the application	Aadhar API, etc.
10.	Machine Learning Model	Purpose of Machine Learning Model	Object Recognition Model, etc.
11.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration :	Local, Cloud Foundry, Kubernetes, etc.

**Table-2: Application Characteristics:**

<b>S . N o</b>	<b>Characteristics</b>	<b>Description</b>	<b>Technology</b>
1 .	Open-Source Frameworks	List the open-source frameworks used	Anaconda Navigator, Tensor flow, Keras, Flask
2 .	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	e.g. SHA-256, Encryptions, IAM Controls, OWASP etc.
3 .	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-services)	Response time, Throughput, CPU and network usages, etc.
4 .	Availability	Justify the availability of application (e.g. use of load balancers, distributed servers etc.)	All kind of users.
5 .	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	Predicting disease, image processing, Visual similarity, rules, machine learning techniques, etc.