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

Date	17 October 2022
Team ID	PNT2022TMID18514
Project Name	AI-based localization and classification of skill disease with erythema
Maximum Marks	4 Marks

Technical Architecture:

The Deliverable shall include the architectural diagram as below.

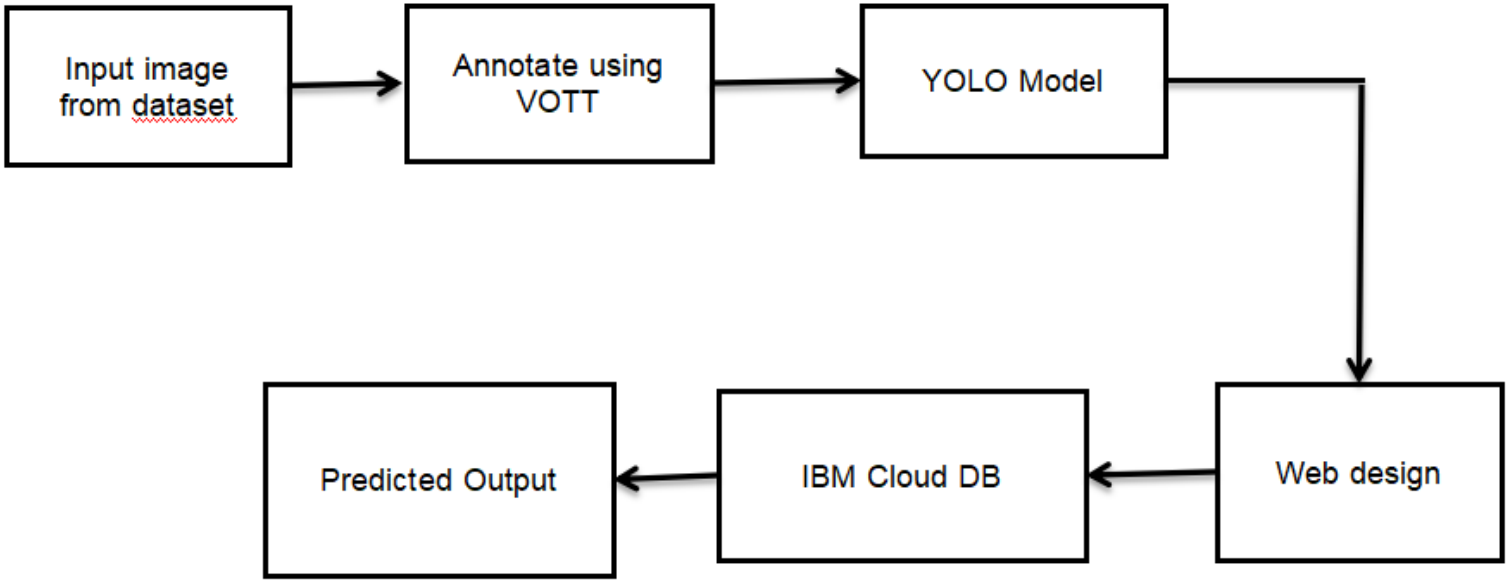

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with web application	HTML, CSS, JavaScript / React JS etc.
2.	Application Logic-1	The data of the users will be stored in the data base.	MySQL, NoSQL.
3.	Application Logic-2	VOTT for annotate the images	VOTT
4.	Application Logic-3	Train thr annotate images	YOLO
5.	Database	Data Type, Configurations etc.	MySQL, NoSQL, etc.
6.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
7.	File Storage	File storage requirements	Local Filesystem

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Download the pre trained YOLOV3 weights and convert them to keras format	Keras
2.	Security Implementations	Encryption is a mathematical tool that allows for encryption of data, ensuring privacy while at the same time, allowing computations to be performed on the encrypted data.	e.g. SHA-256, Encryptions, IAM Controls, OWASP etc.
3.	Scalable Architecture	This approach is more scalable because it handles any images type, whatever of resolution, and gives great performance in any circumstances.	VOTT

S.No	Characteristics	Description	Technology
4.	Availability	With good system all users can access it and annotate a image .	VOTT
5.	Performance	Train the annotate images.	YOLO