

Project Design Phase-II

Technology Stack (Architecture & Stack)

Date	20 May 2023
Team ID	NM2023TMID13223
Project Name	Pixel Perfection: Transforming your photos with our cutting-edge image editing platform

TECHNOLOGY STACK:

A tech stack is the set of technologies used to develop an application including programming languages, frameworks, databases, front-end and back-end tools, and APIs

TECH STACK

Web development

Mobile Application Development

Machine Learning and data analytics

Cloud computing

Technology Architecture:

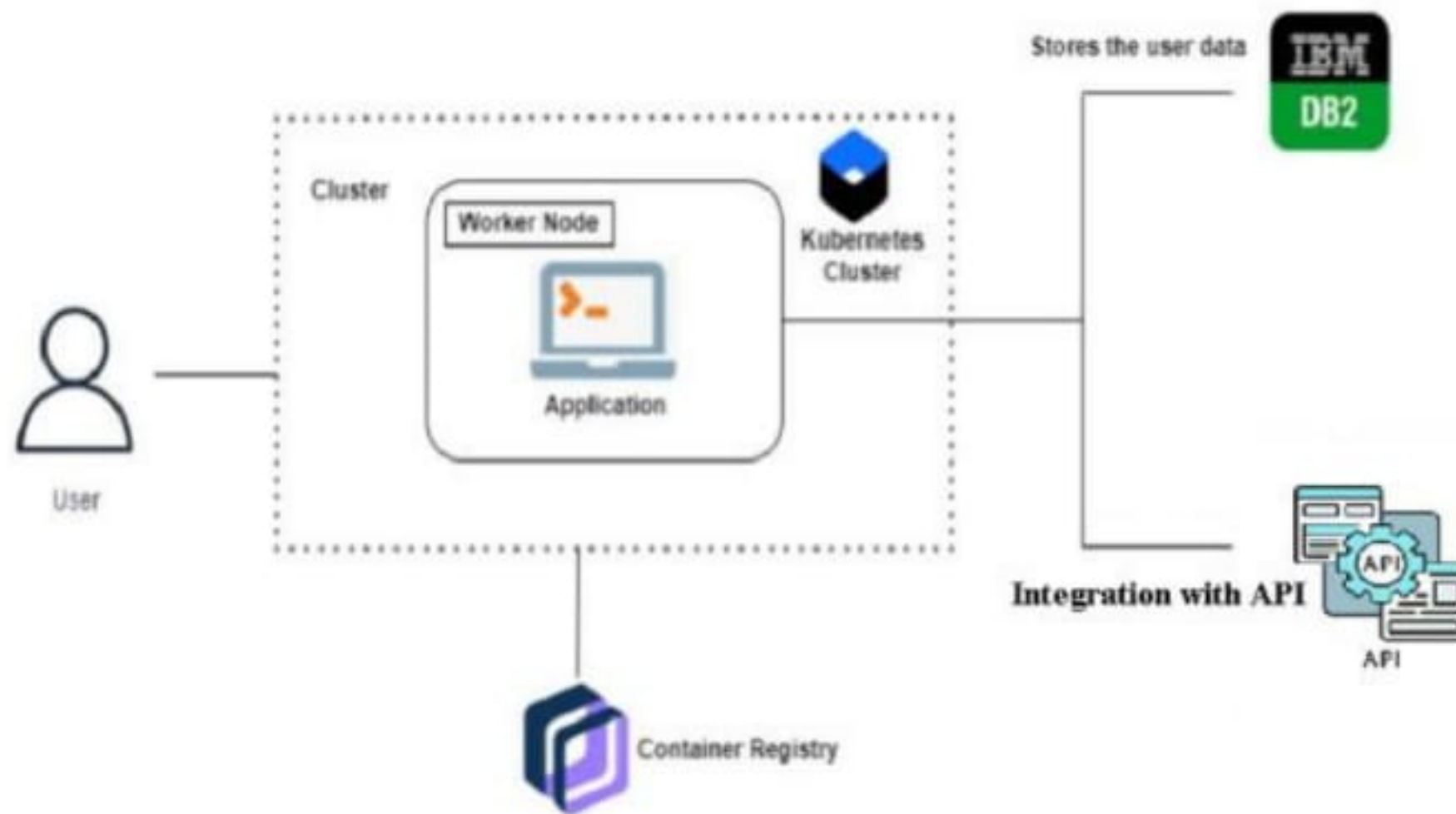


Table-1 : Components & Technologies:

S.No Component

1. User Interface

	Description	Technology
2. Application Logic-1		
3. Application Logic-2	How user interacts with application e.g. Web UI, Mobile App, Chat bot etc.	HTML, CSS, JavaScript / Angular Js / React Js etc.
4. Application Logic-3	Logic for a process in the application	Java / Python
5. Database	Logic for a process in the application	IBM Watson STT service
6. Cloud Database	Logic for a process in the application	IBM Watson Assistant
7. Machine Learning Model	Data Type, Configurations etc.	MySQL, NoSQL, etc.
8. Infrastructure (Server / Cloud)	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
	Purpose of Machine Learning Model	Object Recognition Model, etc.
	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration :	Local, Cloud Foundry, Kubernetes, etc.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Source code for the frameworks is openly available. Pre- built , reusable software components	Aseprite,Piskel,GrafX2 and Pyxel Edit
2.	Security Implementations	Ensure system security and Encrypted Data	e.g. SHA-256, Encryptions, IAM Controls, OWASP etc.
3.	Scalable Architecture	Ability to be flexible and adaptable to the changing hospital environments	Technology used for Mobile app
4.	Availability	Uses widely available components for constructing this system	Cloud platform
5.	Performance	Overall design performance is effective based on the services provided by the developers	High quality