

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

Date	11 May 2023
Team ID	NM2023TMID04859
Project Name	Project - Green Thumbs: A Comprehensive Guide To Caring For Your Houseplants

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2

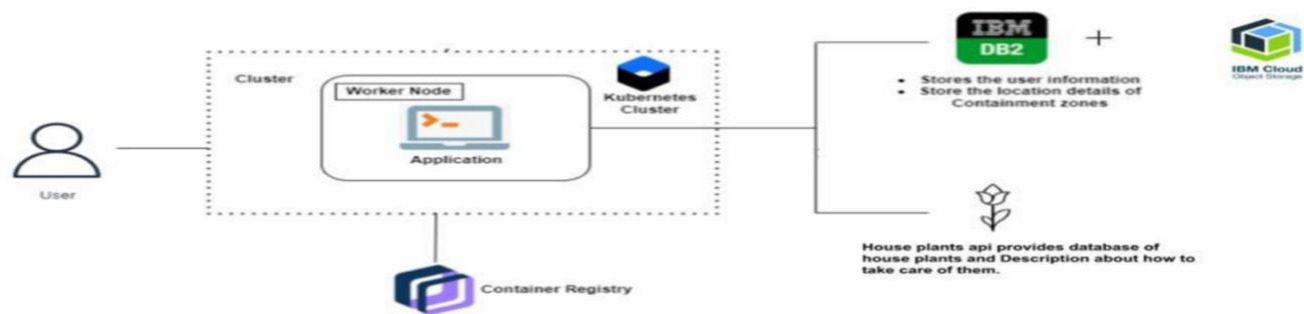


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	The user can interact with this application through chat box	Python and Python web frameworks
2.	Application Logic-1	Logic for a process in the application	Python Web Framework
3.	Application Logic-2	Logic for a process in the application	IBM Watson STT service

4.	Application Logic-3	Logic for a process in the application	IBM Watson Assistant
5.	Database	Data Type, Configurations etc.	Excel
6.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
7.	File Storage	File storage requirements	IBM cloud object storage
8.	External API-1	Purpose of External API used in the application	IBM Weather API, etc.
9.	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: Database server Cloud Server Configuration : Cluster	Cluster, Kubernetes, etc.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	The open-source frameworks used in this application	Python and Flask
2.	Security Implementations	The security / access controls implemented, use of firewalls etc.	Web App,HTML and CSS
3.	Scalable Architecture	Justify the scalability of architecture	Flask interface
4.	Availability	The availability of the application for load users and the server is fast	IBM cloud,Kubernetes clusters etc.,.
5.	Performance	The Application is responsive and Fast, The execution time is less	IBM Cloud Object Storage

