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

Date	03 October 2022	
Team ID	PNT2022TMID19660	
Project Name	ect Name CONTAINMENT ZONE ALERTING	
,	APPLICATION	
Maximum Marks	4 Marks	

## **Technical Architecture:**

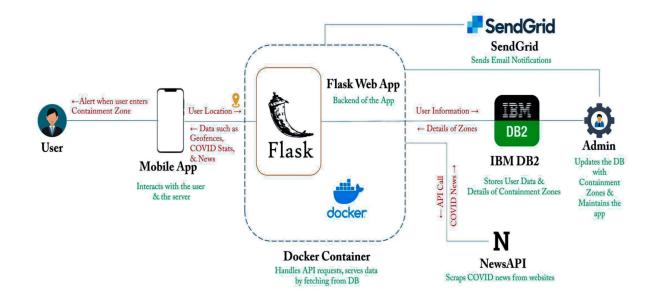


Table-1 : Components & Technologies:

S No	Component	Description	Technology
1.	User Interface	User access to the application through the mobile application.	Vue.js,Android,Flask
2.	Application Logic-1	Creating an application interface	Python & Flask
3.	Application Logic-2	Creating an AI assistant that gives medical services to the user.	IBM Watson Assistance
4.	Application Logic-3	Sending notifications to the user when he is in a contaminated zone.	Twilio SendGrid service
5.	Cloud Database	DB2 product is extended with the support of Object- Oriented features and non-relational structures with XML	IBM DB2
6.	File Storage	Files are stored in the local storage as cache and stored in the cloud.	IBM Block Storage or Other Storage Service or Local Filesystem
7.	External API-1	Use this REST API to manage locations. Get all locations. /admin/resources/locations. Method, GET,POST.	IBM Location REST API
8.	Infrastructure (Cloud)	IBM Cloud App Configuration is a centralized feature-management and configuration service on IBM Cloud.	IBM Cloud Foundry & Kubernetes

**Table 2: Application Characteristics:** 

S No	Characteristics	Description	Technology
1.	Open-Source Frameworks	The geo-fencing algorithm is updated daily and shows the day-to-day updates of the contaminated zones and user location while travelling around.	Google geofencing API
2.	Scalable Architecture	The app is scalable to thousands of users by using IBM cloud technologies and efficient usage of services in the backend application using Flask python	IBM Cloud
3.	Availability	Medicinal Recommendations, Test kits, Doctor suggestions, and Updated Contaminated zones are available in applications.	IBM Watson Assistant
4.	Performance	The client and server application is created using the latest technologies like Vue.js,Kotlin and Flask python and hence no compromise in performance.	Vue.js,Kotlin and Flask python