Project Design Phase-II

Technology Stack
(Architecture & Stack)

Date	22 October 2022
Team ID	**PNT2022TMID42694**
Project Name	Contaminated zone alerting Application

Technical Architecture:
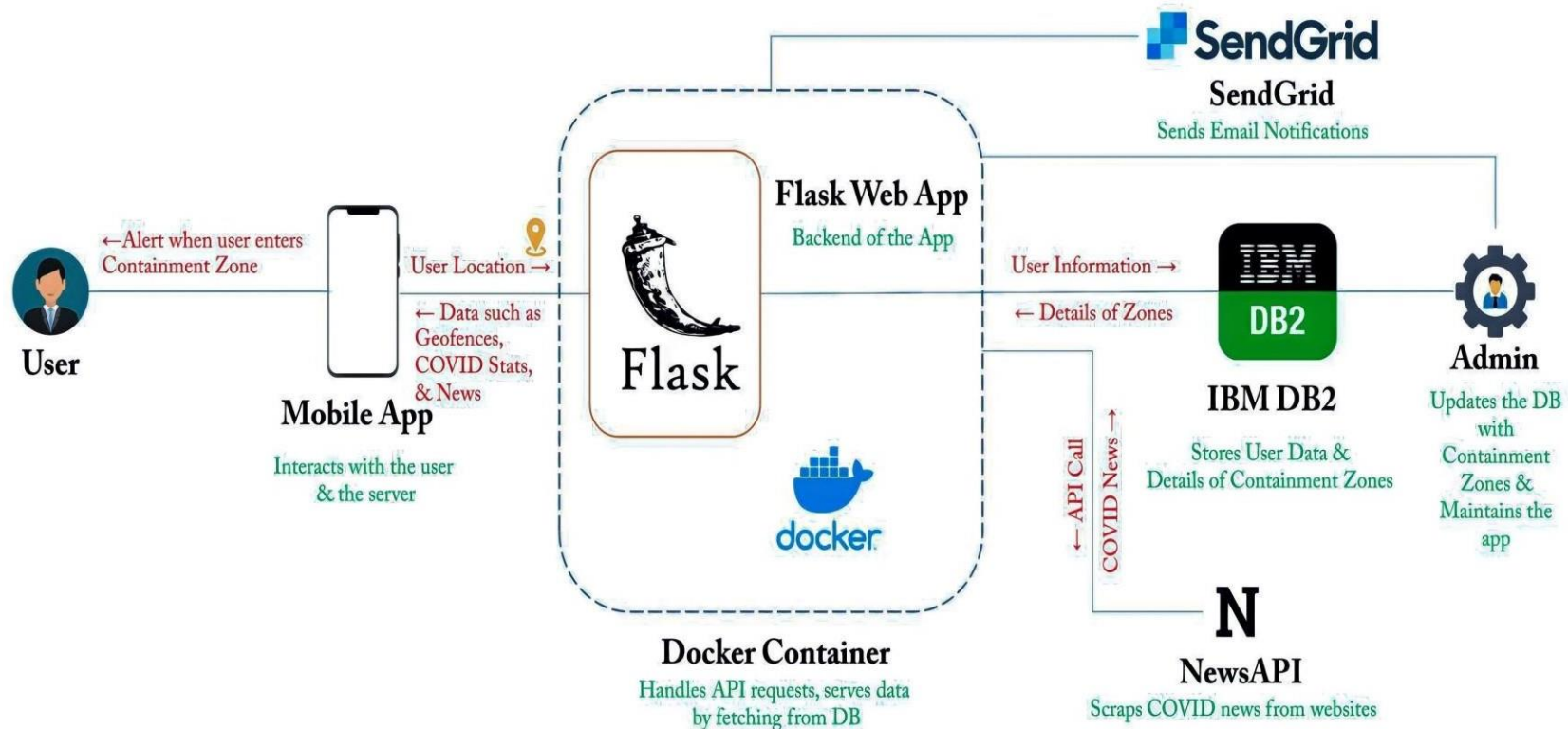
Table-1 : Components & Technologies:

S No	Component	Description	Technology
1.	User Interface	The mobile application provides user access to the programme. designing a user interface for a programme building a medical AI assistant that provides services to the user. Notifying the user when they are in an area that is polluted. The DB2 product is enhanced with the inclusion of Object-Oriented capabilities and XML-based non-relational structures. local storage and the cloud are used to store files. Both To manage locations, use this REST API. Obtain all addresses. URI,/admin/resources/locations. GET method. The centralised feature-management and configuration solution known as IBM Cloud App Configuration is offered by IBM Cloud.	HTML, CSS, JavaScript ,Flask
2.	Application Logic-1	Designing a user interface for a programme	Python & Flask

3.	Application Logic-2	Building a medical AI assistant that provides services to the user.	IBM Watson Assistance
4.	Application Logic-3	Notifying the user when they are in an area that is polluted.	SendGrid services
5.	Cloud Database	The DB2 product is enhanced with the inclusion of Object-Oriented capabilities and XML-based non-relational structures	IBM DB2
6.	File Storage	Both local storage and the cloud are used to store files	IBM Block Storage or Other Storage Service or Local Files ystem
7.	External API-1	To manage locations, use this REST API. Obtain all addresses. URI,/admin/resources/locations. GET method.	IBM Location REST API
8.	Infrastructure (Cloud)	The centralised feature-management and configuration solution known as IBM Cloud App Configuration is offered by IBM Cloud	IBM Cloud Foundry & Kubernetes

Table 2: Application Characteristics:

S No	Characteristics	Description	Technology
1.	Open-Source Frameworks	This application has no open-source frameworks. Applications are available that provide medical advice, test kits, doctor recommendations, and updated contaminated zones.	Python

		The geo-fencing algorithm reveals the day-to-day updates of the polluted zones and the user's position as they move about. It is updated every day.	
2.	Scalable Architecture	Medical services are made available to users online, and consumers are made aware of by being given therapeutic medications, having user movements tracked in pandemic zones, and receiving notifications before they are impacted.	IBM Cloud
3.	Availability	Applications are available that provide medical advice, test kits, doctor recommendations, and updated contaminated zones.	IBM Watson Assistant
4.	Performance	The geo-fencing algorithm reveals the day-to-day updates of the polluted zones and the user's position as they move about. It is updated every day.	Geofence