CONTAINMENT ZONE ALERTING APPLICATION

PROJECT DESIGN PHASE 2

TECHNICAL ARCHITECTURE

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Team Members

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Problem Statement:

Create an application to indicate Containment Zone Alert.

Problem Statement Description:

This application is intended to provide information about containment zones in a particular region by alerting people, through continuous monitoring of an individual's location. Key benefits of the application are monitoring people's activity and alerting them of their safety movements.

Technical Architecture:

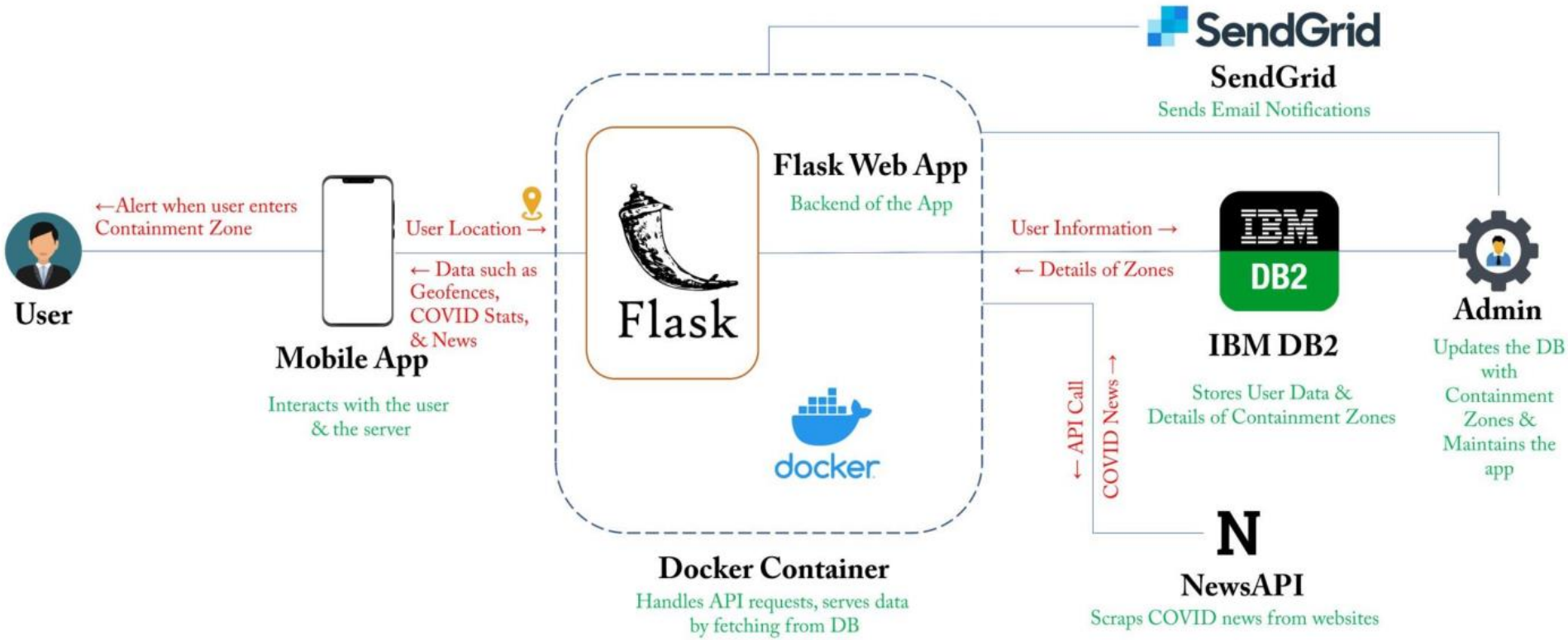

Table - 1:

Components and Technologies:

S.No	Component	Descript ion	Technology
1.	User Interface	Interaction of user to the mobile interface (i.e.- developers).	HTML, CSS, JavaScript / Angular Js / React Js etc.
2.	Application Logic- 1	Logic that has been kickstarted first, for the process in the application.	Java / Python
3.	Application Logic- 2	Intermediate Logic for the process in the application.	IBM Watson STT service
4.	Application Logic- 3	Logic which came Last but not least for the process in the application.	IBM Watson Assistant
5.	Database	Storing purposes.	MySQL, NoSQL, etc.
6.	Cloud Database	Database Service on IBM Cloud.	IBM DB2, IBM Cloud etc.
7.	File Storage	Storage requirements.	IBM Block Storage or Other Storage Service or Local Filesystem
8.	External API - 1	API used external in the application.	Google API, etc.
9.	External API - 2	API used external in the application.	Aadhar API, etc.
10.	Machine Learning Model	Machine learning is mostly used for AI purposes (i.e.: Recognition).	Object Recognition Model, etc.
11.	Infrastructure (Server / Cloud)	Application Deployment on Local System/ Cloud Local Server Configuration. Cloud Server Configuration.	Local, Cloud Foundry, Kubernetes etc.

Table- 2: Application Characteristics:

S.No	Characteristics	Descript ion	Technology
1.	Open- Source Frameworks	Software designed to be publicly accessible in decentralized and collaborative way.	Technology of Open-source framework
2.	Security Implementations	It is used to provide security for the user by providing various technologies (i.e.: signature for text or data files)	e.g., SHA- 256, Encryptions, I AM Controls, OWASP etc.
3.	Scalable Architecture	Scalability is provided (Micro- services) .	Cloud, IBM object storage
4.	Availability	Use of cloud makes it available on the go, anywhere and anyplace.	Cloud
5.	Performance	Design consideration is must because there are numerous apps but in what way our app should be known is mandatory (Speed, number of requests per sec, use of Cache, use of CDN's) etc.	SendGrid