

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

Date	16 October 2022
Team I D	PNT2022MID06728
Project Name	Containment zone alerting application
Maximum Marks	4 marks

Technical Architecture:

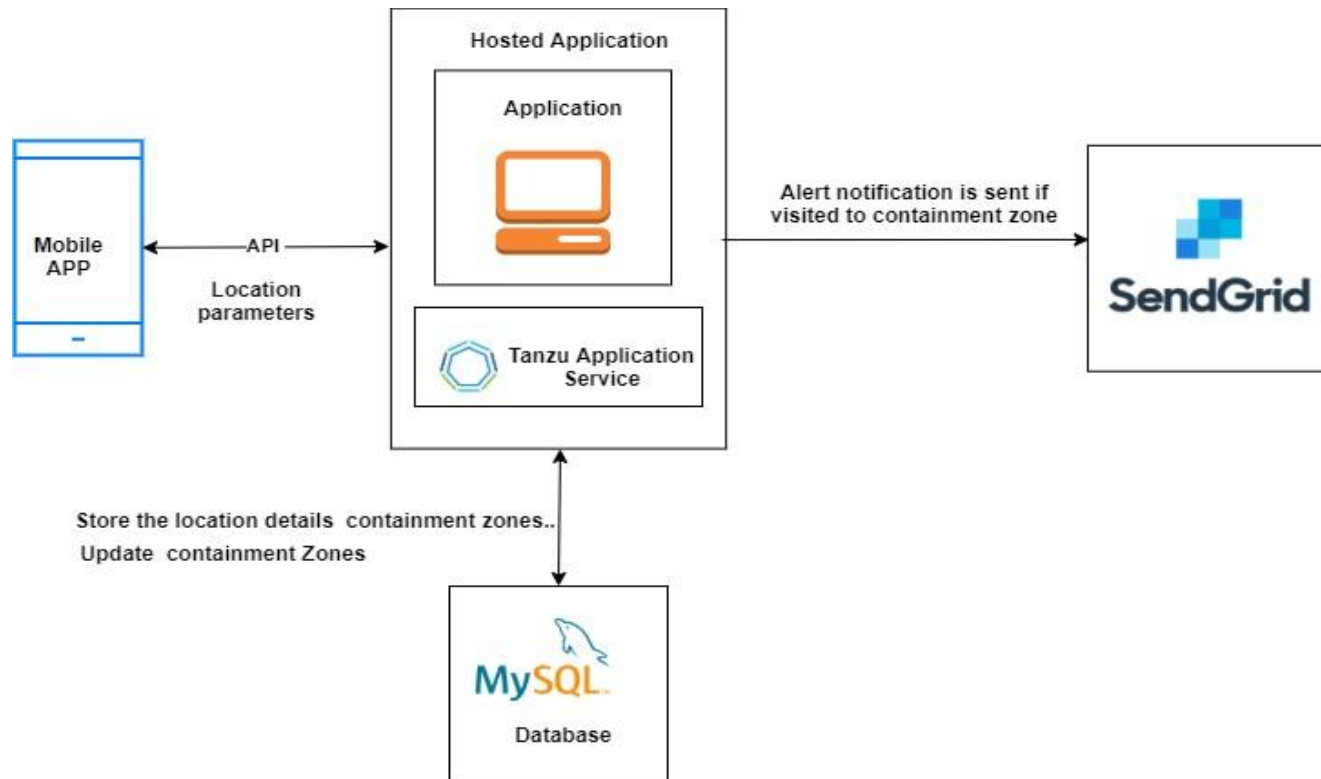


Table 1 :***Components & Technologies:***

<i>S.No</i>	<i>Component</i>	<i>Description</i>	<i>Technology</i>
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 been kick started 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 which is 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	IBMDB2, IBM Cloud ant etc.
7.	File Storage	Storage requirements	IBM Block Storage or Other Storage Service or Local File system
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/ CloudLocal Server Configuration: Cloud Server Configuration :	Local, Cloud Foundry, Kubernetes, etc.



Table- 2: Application Characteristics:

<i>S.No</i>	<i>Characteristics</i>	<i>Description</i>	<i>Technology</i>
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, IAM 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 the must because there are numerous app but in what way our app is should be known is mandatory. (speed, number of requests per sec, use of Cache, use of CDN's) etc.	SendGrid

