

## ProjectDesignPhase-II TechnologyStack(Architecture&Stack)

Date	17 October2022
TeamID	PNT2022TMID11688
ProjectName	Containmentzonealertingapplication
MaximumMarks	

TechnicalArchitecture:

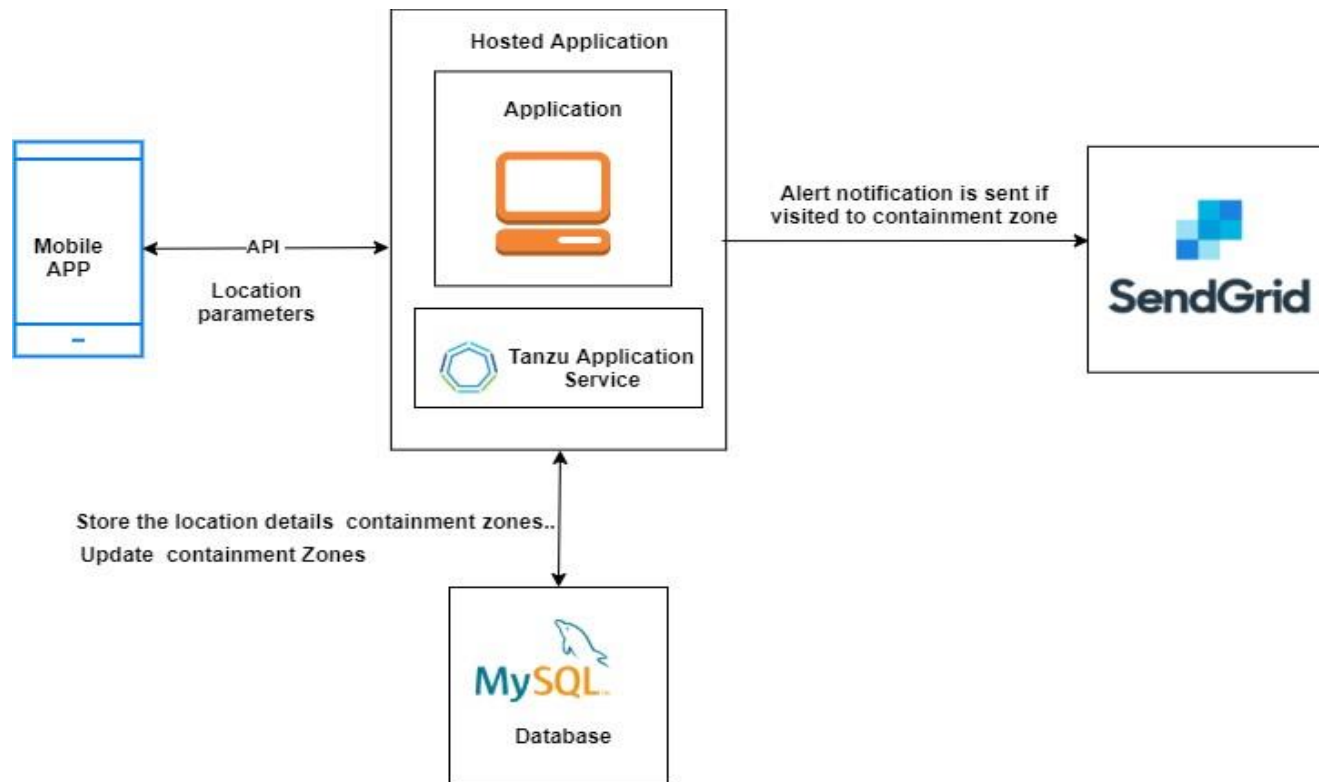


Table-1:  
Components  
&Technologies:

S.No	Component	Description	Technology
1.	UserInterface	Interaction of user to the mobile interface (i.e-developers)	HTML,CSS,JavaScript/AngularJs ReactJs etc.
2.	ApplicationLogic-1	Logic that been kick started first for the process in the application.	Java/Python
3.	ApplicationLogic-2	Intermediate Logic for the process in the application	IBM Watson STT service
4.	ApplicationLogic-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.	CloudDatabase	Database Service on IBM Cloud	IBM DB2, IBM Cloudant etc.
7.	FileStorage	Storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem
8.	ExternalAPI-1	API used external in the application	Google API, etc.
9.	ExternalAPI-2	API used external in the application	Aadhar API, etc.
10.	MachineLearningModel	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.

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Table-2:ApplicationCharacteristics:

S.No	Characteristics	Description	Technology
1.	Open-SourceFrameworks	Software designed to be publicly accessible in decentralized and collaborative way.	Technology of Opensource framework
2.	SecurityImplementations	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.	ScalableArchitecture	Scalability is provided.(Micro-services)	Cloud,IBM Object storage
4.	Availability	Use of cloud makes it available on the go anywhere and any place.	Cloud
5.	Performance	Design consideration is the must because there are numerous app but in what way your app is should be known is mandatory.(speed,number of requests per sec,use of Cache,use of CDN's) etc.	SendGrid

