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CHAPTER 1

INTRODUCTION

A containment zone alerting application is a mobile application that sends alerts to userswhen they enter or exit a containment zone. The app uses GPS to track the user's location and sends an alert if the user enters or leaves a containment zone. The app also allows users to setup alerts for specific containment zones.

1.1 PROJECT OVERVIEW:

The World Health Organization has declared the outbreak of the novel coronavirus, COVID-19 as pandemic across the world. With its alarming surge of affected casesthroughout the world, lockdown and awareness (social distancing, use of masks etc) among people are found to be the only means for restricting the community transmission.

In a densely populated country like India, it is very difficult to prevent the communitytransmission even during lockdown without social awareness and precautionarymeasures taken by the people. Recently, several containment zones had been identified throughout the country and divided into red, orange and green zones, respectively. Thered zones indicate the infection hotspot, orange zones denote some infection and greenzones indicate an area with no infection. This paper mainly focuses on development of an Android application which can inform people of the COVID-19 containment zones and prevent trespassing into these zones.

1.2 PURPOSE:

Provide information about containment zones in a particular region by alerting people, through continuous monitoring of an individual's location. This Android application updates the locations of the areas in a Google map which are identified to be the containment zones. The application also notifies the users if they have entered

acontainment zone and uploads the user's info to the online database. Therefore, this application can be used as a tool for creating further socialawareness about the arising need of precautionary measures to be taken by the people of India.

CHAPTER 2

LITERATURE SURVEY

Introduction:

cloud application is software that runs its processing logic and data storage between 2 different systems: client-side and server-side.

The cloud also processing to create a containment zone alerting application to preventive the people from COVID -19 cases.

To informing people about the location of the containment zones can help them bypass and avoid these zones and thereby reduce the chance of spreading. The application also provides daily Covid-19 case statistics to the users to keep them updated.

Problem Statement:

Covid19 containment zones and prevent trespassing into these zones. This application updates the locations of the areas in a Google map which are identified tobe the containment zones. Recently, several containment zones had been identified throughout thecountry and divided into red, orange and green zones. The red zones indicate theinfection hotspots, orange zones denote some infection and green zones indicate anarea with no infection. The application also notifies the

users if they have entered acontainment zone and uploads the user's IMEI number to the online database. So, people can get awareness about a current containment zone throughout thenotification.

S.NO	PROJECT TITLE	ADVANTAGE	DISADVANTAGE	TECHNOLOGY USED
1.	COVID-19 Lifeguard: A Compact Wearable-IoT (W-IoT) System for Health Safety and Protection of Outgoers in the Post- Lockdown World	device can adapt to various	l Mobile, applications, have.	

2.	Development of An Android Application for Viewing Covid- 19 Containment Zones and Monitoring Violators Who are Trespassing into It Using Firebase and Geofencing	It is used as a tool for creating further social awareness about the arising need of precautionary measures to be taken by the people of India.It can inform people of the Covid19 containment zones and prevent trespassing into these zones.	People can move inside the city for work and other purposes. But the containment zones are still being kept isolated, and new containment zones are being formed wherever Covid-19 cases have been reported. These zones are highly contagious as droplets with virus coughed out from an unscreened asymptomatic patient can travel up to 8 m and it makes tough to use frequently.	Geofencing API Firebase cloud firestore
3.	Internet of Things (IoT) Enabled Architecture for Social Distancing During Pandemic	play a crucial role to support the social, professional and economic activities when people are forced to stay	A common problem with most IoT devices is their limitation due to restricted battery life which inhibits their capability to operate for long duration and long distances in case of drones, robots etc. The lack of proper measures and guidelines in handling patient's confidential data, algorithms for ensuring security and privacy increases vulnerabilities associated with the use of many technologies like drones, robots, autonomous vehicles etc. which are crucial supplements to the IoT platform.	Proposed IoT architecture

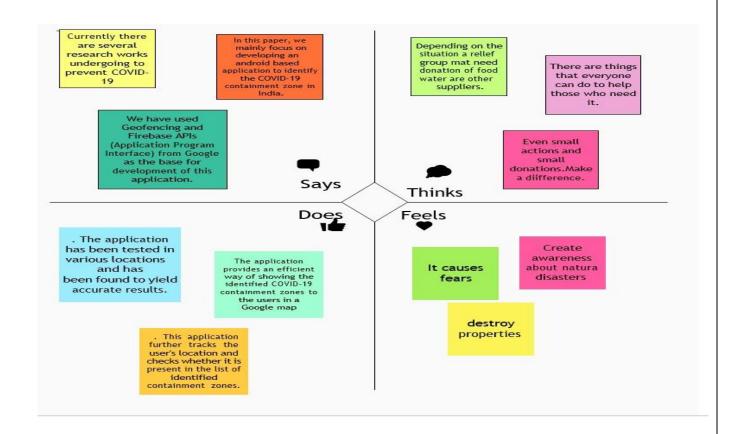
	Community alert project	to natural hazards through enhanced	suspension of activity can	CAP server Android
4.		awareness building	Backstopping and quality	
		initiatives.	assurance measures to	
			ensure the resilience of the	
			contract outputs should be	
			undertaken by the	
			consultant	

CHAPTER 3 IDEATION & PROPOSED SOLUTION

3.1 EMPATHY MAP CANVAS:

An empathy map is a simple, easy-to-digest visual that captures knowledge about a user'sbehaviours and attitudes. It is a useful tool to helps teams better understand their users. Creating an effective solution requires understanding the true problem and the person whois experiencing it. The exercise of creating the map helps participants consider things from the User's perspective along with his or her goals and challenges

CONTAINMENT ZONE ALERTING APPLICATION

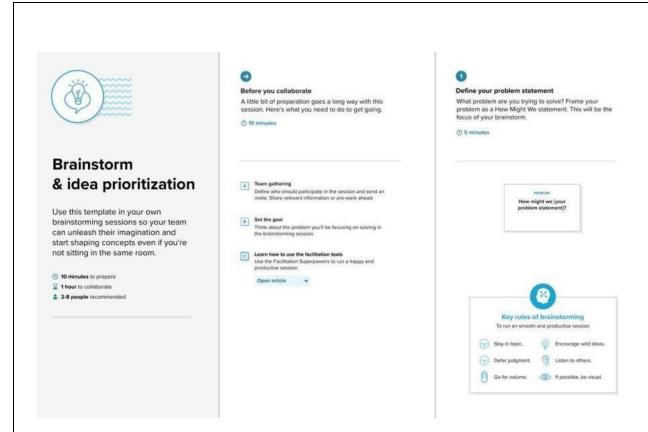


Reference: https://www.mural.co/templates/empathy-map-canvas

3.2 IDEATION & BRAINSTORMING:

Brainstorming provides a free and open environment that encourages everyonewithin a team to participate in the creative thinking process that leads toproblem solving. Prioritizing volume over value, out-of-the-box ideas are welcome and built upon, and all participants are encouraged to collaborate, helping each other develop a rich Amount of creative solutions. Use this template in your own brainstorming sessions so your team can unleash their imagination and start shaping concepts even if you're not sitting in the same room

Step-1: Team Gathering, Collaboration and Select the Problem Statement



Step-2: Brainstorm, Idea Listing and Grouping

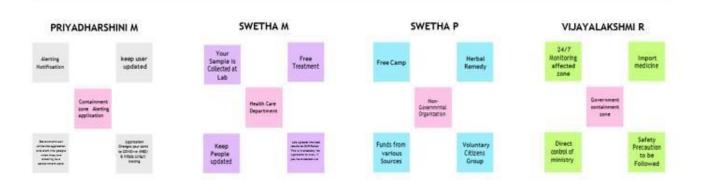


Brainstorm

Write down any ideas that come to mind that address your problem statement.

10 minutes





SANDHIYA S

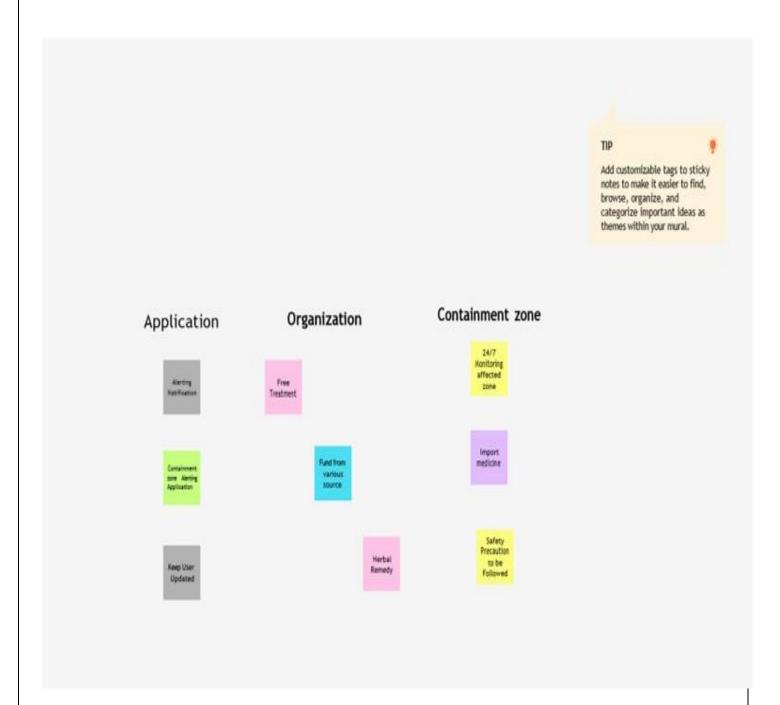




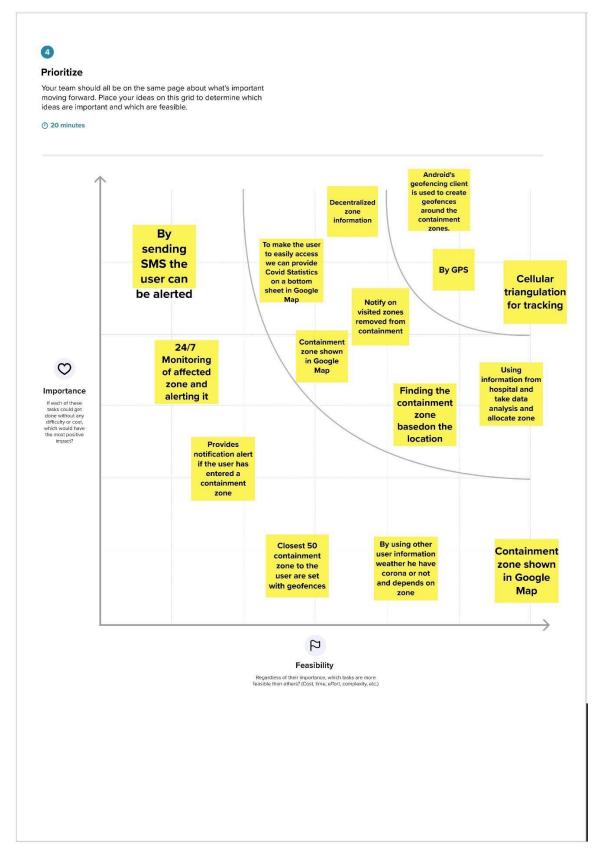
Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go. In the last 10 minutes, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you and break it up into smaller sub-groups.

① 20 minutes



Step-3: Idea Prioritization



3.3 PROPOSED SOLUTION:

Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

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.

Requirement Specification:

To be used efficiently, all computer software needs certain hardware components or other software resources to be present on a computer. These prerequisites are known as (computer) system requirements and are often used as a guideline as opposed to an absolute rule. Most software defines two sets of system requirements: minimum and recommended. With the increasing demand for higher processing power and resources in newer versions of software, system requirements tend to increase over time. Industry analysts suggest that this trend plays a bigger part in driving upgrades to exist computer systems than technological advancements.

Hardware Requirements:

The most common set of requirements defined by any operating system or software application is the physical computer resources, also known as hardware. A hardware requirements list is often accompanied by a hardware compatibility list (HCL), especially in the case of operating systems. An HCL lists tested compatible, and sometimes incompatible hardware devices for a particular operating system or application.

The following subsections discuss the various aspects of hardware requirements.

Hardware Requirements for Present Project:

PC/COMPUTER:

PROCESSOR: Intel dual Core, i3

RAM: 8 GB HARD DISK: 80 GB

Software Requirements:

Software Requirements deal with defining software resource requirements and prerequisites that need to be installed on a computer to provide optimal functioning of an application. These requirements or prerequisites are generally not included in the software installation package and need to be installed separately before the software is installed.

Software Requirements for Present Project:

OPERATING SYSTEM: Windows or Linux

FRONT END: Html, CSS, JavaScript.

SERVER SIDE: Python, Flask, Docker

DATABASE: IBM Database Existing System:

The Existing Containment Zone Alerting system detects the Containment Zone using Bluetooth Technology and It does not alert for Particular Street it shows a particular Region.

And it can't be used without turning ON Bluetooth Feature. Proposed System: Containment Zone Alerting Application is designed to send the accurate street location of the Containment Zone using location Feature and it sends the alert through notification of our Application.

Software Specification:

HTML:

HTML or Hypertext Markup Language is the standard markup language used to create web pages. HTML is written in the form of HTML elements consisting of tags enclosed in angle brackets. HTML tags most commonly come in pairs like and, although some tags represent empty elements and so are unpaired, for example, Error! Filename not specified... The first tag in a pair is the start tag, and the second tag is the end tag (they are also called opening tags and closing tags). HTML elements form the building blocks of all websites. HTML allows images and objects to be embedded and can be used to create interactive forms. It provides a means to create structured documents by denoting structural semantics for text such as headings, paragraphs, lists, links, quotes, and other items. It can embed scripts written in languages such as JavaScript which affect the behavior of HTML web pages.

Cascading Style Sheets (CSS):

It is a style sheet language used for describing the look and formatting of a document written in markup language. While most often used to style web pages and interfaces written in HTML and XHTML, the language can be applied to any kind of XML document, including plain XML, SVG, and XUL. CSS is a cornerstone specification of the web and almost all web pages use CSS style sheets to describe their presentation. CSS is designed primarily to enable the separation of document content from document presentation, including elements such as layout, colors, and fonts. This separation can improve content accessibility, provide more flexibility and control in the specification of presentation characteristics, enable multiple pages to share formatting, and reduce complexity and repetition in the structural content. CSS can also allow the same markup page to be presented in different styles for different rendering methods, such as on-screen, in print, by voice (when read out by a speech based browser or screen reader), and on Braille-based, tactile devices. It can also be used to allow the web page to display differently depending on the screen size or device on which it is being viewed. While the author of a document typically links that document to a CSS file, readers can use a different style sheet, perhaps one on their computer, to override the one the author has specified. However, if the author or the reader did not link the document to a specific style sheet the default style of the browser will be applied.

JavaScript:

JavaScript is the scripting language of the Web. All modern HTML pages are using JavaScript. A scripting language is a lightweight programming language. JavaScript code can be inserted into any HTML page, and it can be executed by all types of web browsers. JavaScript is easy to learn.

Python:

Python is a high-level, general-purpose programming language. Its design philosophy emphasizes code readability with the use of significant indentation. Python is dynamically-typed and garbage-collected. It supports multiple programming paradigms, including structured, object-oriented, and functional programming. Flask: Flask is a small and lightweight Python web framework that provides useful tools and features that make creating web applications in Python easier. It gives developers flexibility and is a more accessible framework for new developers since you can build a web application quickly using only a single Python file.

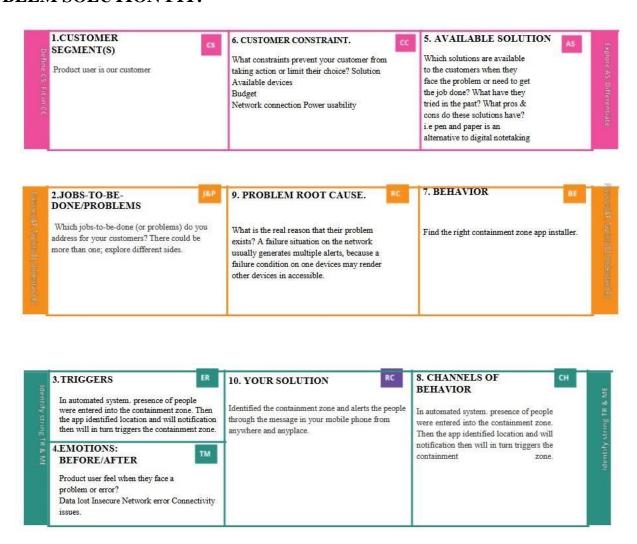
Docker:

Docker is an open-source containerization platform. It enables developers to package applications into containers—standardized executable components combining application source code with the operating system (OS) libraries and dependencies required to run that code in any environment.

IBM Database:

The IBM database enables you to access and manage server data through an application or a user interface. As well as providing access to and protection for your data, DB2 for IBM provides advanced functions, such as referential integrity and parallel database processing.

3.4 PROBLEM SOLUTION FIT:



CHAPTER 4 REQUIREMENT ANALYSIS

Project Description:

Project Idea:

This application is intended to provide information about containment zones in a particular region 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.

Solution Requirements:

The project aims at building an application that provides information about the containment zonesof a particular region by continuously monitoring an individual's location. Location of the individualmust be stored in the Database.

Alerts are sent using the notification service.

4.1 FUNCTIONAL REQUIREMENTS:

Following are the functional requirements of the proposed solution.

FR No.	FunctionalRequirement(Epic)	SubRequirement(Story/Sub-Task)
FR-1	UserRegistration	Registration through Mobile number.RegistrationthroughGmail.
FR-2	UserConfirmation	Confirmation via Email.Confirmationvia OTP.
FR-3	AppPermissions	EnablinglocationAccess(Mandatory) Permission to Media AccessPermissionto Camera.
FR-4	Connectivity	The user and server were connected through the Internet.
FR-5	Datafetching	The Users Personal data and a result of self analysisupdatedwithappserver.
FR-6	Supportfunctions	The Users gets teleconsultation using helpline and supports by chatbot.

FR-7	Enduserbenefits	Toprotectthepeoplefromthediseasespreadbyknowingconta
		inmentzones usingcontacttracing.

4.2 NON-FUNCTIONAL REQUIREMENT:

Followingarethe non-functional requirements of the proposed solution.

FR No.	Non-FunctionalRequirement	Description				
NFR-1	Usability	It is an effective way to find a containment zone. Itcaneasilyaccessby everyone.				
NFR-2	Security	It is secured because confirmation through User ownEmail or OTP and also the data were stored inencrypted formattomainanonymity.				
NFR-3	Reliability	It is a high reliability based on development anddeployment.				
NFR-4	Performance	High efficiency outcomes with respect to simple userInterface.				
NFR-5	Availability	Anyonefromanywherecanaccessitthroughinternet.				
NFR-6	Scalability	It has ability to handle a growing user base without affecting the user experience and appper formance.				

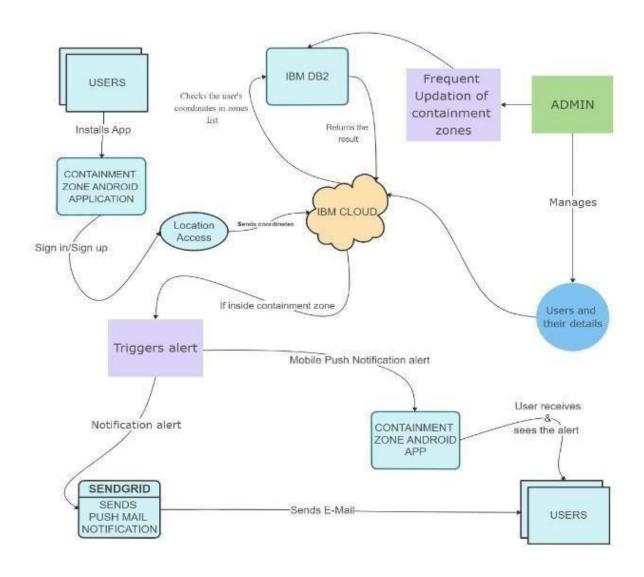
CHAPTER 5

PROJECT DESIGN

5.1 DATA FLOW DIAGRAMS:

DataFlowDiagrams:

A DataFlow Diagram(DFD)is a traditional visual representation of the information flows with in a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

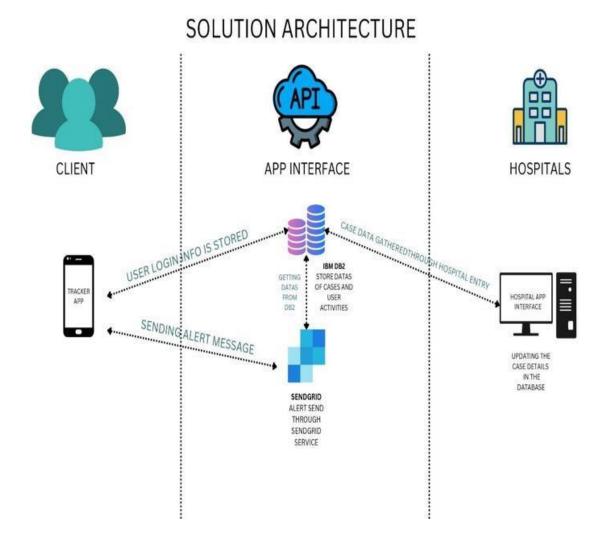


5.2 SOLUTION & TECHNICAL ARCHITECTURE

Solution Architecture:

The app should have a user registration and login. After the user logged into the app it will track the user's location and update the database with the current location. If the user is visiting the containment zone he will get an alert notification.

They should login to the app and update the containment zones locations in the portal. Based on the location a Geofence will be created within a 100 meters radius. They should be able to see how many people are visiting that zone.



Guidelines:

IncludealItheprocesses(Asanapplicationlogic/Technolog yBlock)

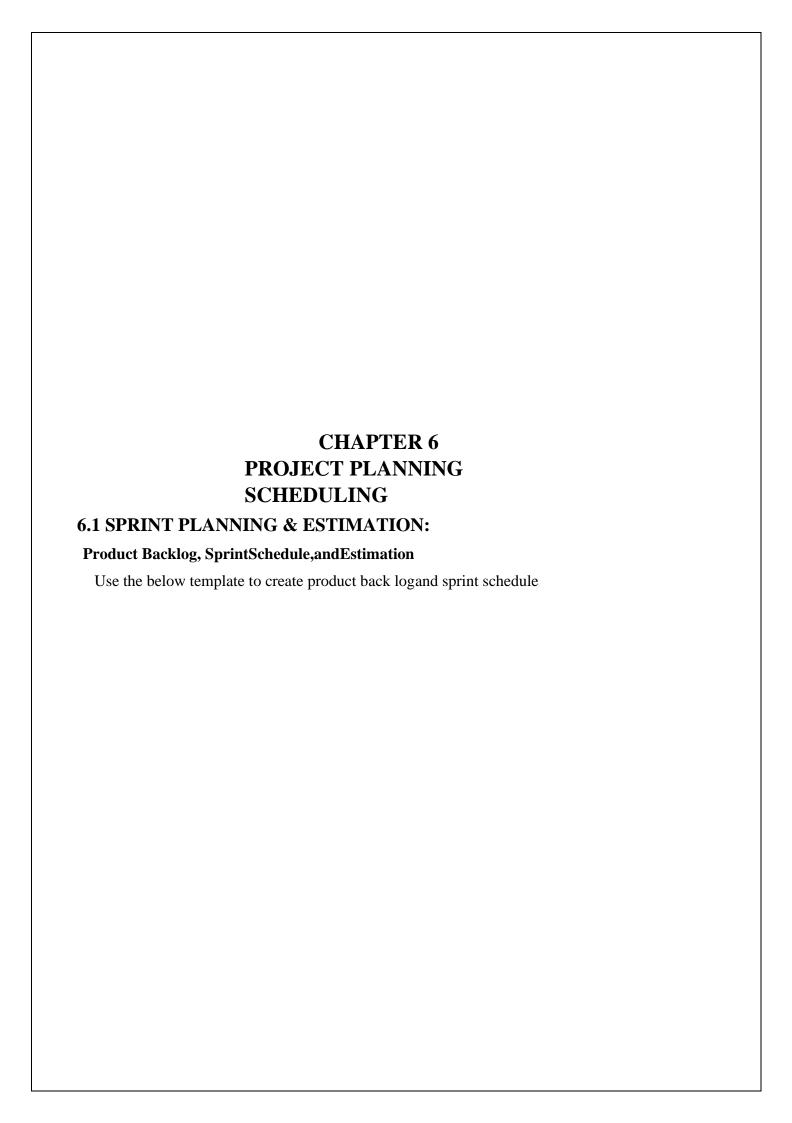
- 1.Provideinfrastructuraldemarcation(Local/Cloud)
- 2. Indicate external interfaces (third party API's etc.)
- ${\bf 3. Indicate Data Storage components/services}$
- 4.Indicateinterfacetomachinelearningmodels(ifapplicab le)

$Table \hbox{-} 1: Components \& Technologies:$

S.No	Component	Description	Technology
1.	UserInterface	The user can interacts with ourapplication with the helpof Chatbot, etc.	HTML,CSS,JavaScript
2.	ApplicationLogic	Theusercanloginwithapplication,bypr eviouslyregisteredin ourweb app.	Java/Python
3.	CloudDatabase	Theuserdatawillbestoredandretrieved withthehelpofthisdatabase.	IBMDB2
4.	FileStorage	The user documents like personal details, trackingdocuments and much more will be stored in cloudbucketetc,	IBMBlock StorageorOtherStorageSer viceorLocalFile system
5.	ExternalAPI	WiththehelpofAPI,theuser cantrack thelocation	IBMAPI,etc.
6	Infrastructure(Server/Cloud)	ApplicationDeploymentonLocalSystem/ Cloud	Local, CloudFoundry, Kubernetes, etc.

UserStories:

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Mobile user)	Registration	USN - 1	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account / dashboard	High	Sprint – 1
		USN - 2	As a user, I will receive confirmation email once I have registered for the application	I can receive confirmation email & click confirm	High	Sprint – 1
		USN - 3	As a user, I can register for the application through Gmail.	I can register & access the dashboard with Google	Medium	Sprint – 1
	Login	USN - 4	As a user, I can log into the application by entering email & password.	I can see the homepage	High	Sprint – 1
)	Dashboard	USN - 5	As a user, I can see the options available for User account.	I can see the dashboard	Medium	Sprint – 2
5	Background running	USN - 6	As a user, I allow the app to run in background.	I should change the app settings to run app in background	High	Sprint – 2
	GPS	USN - 7	As a user, I allow the app to access my location.	I should accept the permission to access my location.	High	Sprint - 2
3	Google Maps	USN - 8	As a user, I can see the containment zones using the maps via Google Maps.	I should accept location permission	High	Sprint – 3
	Notification	USN - 9	As a user, I allow notification access for the application.	I should allow notification access	High	Sprint – 3
Administrator	Login	USN - 1	As admin, I log into the administrator portal.	I can access the admin account.	High	Sprint – 1
\$	Cloud	USN - 2	As admin, I use the cloud services to maintain users and the contaminated zones data.	I work with cloud services	High	Sprint – 2
	Cloud Database	USN - 3	As admin, I store the user details in the cloud database.	I get the details of the user and store in the cloud database.	High	Sprint – 2
	Maps	USN - 4	As admin, I will enter the containment zone's location.	I should enter correct co- ordinates of containment zones	High	Sprint – 3
	Mail	USN - 5	As admin, I set up a mail system to alert users when they enter a containment zone.	I use online mail system to send mail to users	High	Sprint – 3
	Updating	USN - 6	As admin, I should frequently update the details and the location of the containment zones.	I fetch data from internet and update the zones and the relevant details.	High	Sprint – 4



Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Registration	USN-1	user: I can register by entering my email.password and verifying password	3	High	Privadharshini.M. Swetha.P. Vijiyalakshmi.R. Sandhiya.S. Swetha.M.
Sprint-1	Registration	USN-2	As a user, I will receive confirmation email once I have registered for the application	2	High	Privadharshini.M. Swetha.P. Vijivalakshmi.R. Sandhiya.S. Swetha.M.
Sprint-1	Registration	USN-3	As a user, I can register for the application through Facebook	3	Medium	Priyadharshini.M. Swetha.P. Vijiyalakshmi.R. Sandhiya.S. Swetha.M.
Sprint-1	Registration	USN-4	As a user, I can register for the application through Gmail	2	Medium	Privadharshini M. Swetha P. Vijivalakshmi R. Sandhiya S. Swetha M
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	3	High	Prixadharshini.M. Swetha.P. Vijiyalakshmi.R. Sandhiya.S. Swetha.M.
Sprint-1	Login	USN-6	Management: i need to login into my dashboard with my given hospital id	5	Medium	Privadharshini.M. Swetha.P. Viiivalakshmi.B. Sandhiva.S. Swetha.M
Sprint-2	dashboard	USN-7	User: I need to give permission to access my contact Location, and storage	5	High	Privadharshini.M. Swetha.P. Viiivalakshmi.R. Sandhiva.S. Swetha.M.
Sprint-2	dashboard	USN-8	User: i get access to the dashboard which shows a map with containment zones	5	High	Privadharshini.M, Swetha.P, Vijivalakshmi.R, Sandhiva.S, Swetha.M
Sprint-2	dashboard	USN-9	Management: i need to enter the case	5	Low	Privadbarshini M.

Sprint-2

Sprint-2

dashboard

services

USN-9

USN-10

Management: i need to enter the case information of the patient that visits our hospital

Admin: i need to provide valid information about the pandemic out there

Priyadharshini,M, Swetha,P, Vijiyalakshmi,R,

Erivadharshini.M. Swetha.P. Vijivalakshmi.R. Sandhiva.S. Swetha.M.

Sandhiya S. Swetha M.

5

5

Low

High

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Dashboard	USN-11	Management: I need to store all the patient information on the cloud.	5	High	Priyadharshini M. Swetha P. Vijiyalakshmi R. Sandhiya S. Swetha M
Sprint-3	services	USN-12	Admin: I need to provide medical advice through a chatbot.	5	Medium	Privadharshini M. Swetha P. Vijiyalakshmi R. Sandhiya S. Swetha M
Sprint-3	services	USN-13	Admin: I need to provide medical recommendations by collaborating with top hospitals.	5	High	Privadharshini M. Swetha P. Vijiyalakshmi R. Sandhiya S. Swetha M
Sprint-3	services	USN-14	Admin: I need to provide preventive measures when they travel through it.	5	Medium	Privadharshini M. Swetha P. Vijiyalakshmi R. Sandhiya S. Swetha M
Sprint-4	Registration	USN-15	User: I can register for the application through Facebook.	2	Low	Priyadharshini.M. Swetha.P. Vijiyalakshmi.R. Sandhiya.S. Swetha.M
Sprint-4	Registration	USN-16	User: I can register for the application through Twitter.	2	Low	Priyadharshini.M. Swetha.P. Vijiyalakshmi.R. Sandhiya.S. Swetha.M
Sprint-4	services	USN-17	Admin: I need to alert the user when they enter pandemic zones.	3	Medium	Priyadharshini.M. Swetha.P. Vijiyalakshmi.R. Sandhiya.S. Swetha.M
Sprint-4	services	USN-18	Admin: I Need to provide special services for premium users by giving services like monitoring health by their smart bands.	3	Low	Priyadharshini M. Swetha P. Vijiyalakshmi R. Sandhiya S. Swetha M
Sprint-4	Data collection	USN-19	Admin: I need to store all the user information on the cloud	5	High	Priyadharshini M. Swetha P. Vijiyalakshmi R. Sandhiya S. Swetha M
Sprint-4	Data collection	USN-20	Admin: i need to collect the recent list of affected people	5	Medium	Priyadharshini M. Swetha P. Vijiyalakshmi R. Sandhiya S. Swetha M

ProjectTracker, Velocity&Burndown Chart:

Sprint	Total Story Points	Duratio n	Sprint StartDate	Sprint End Date(Pla nned)	Story Points Completed (as onPlannedEn dDate)	Sprint Release Date(Actual)
Sprint-1	20	6 Days	24Oct2022	29Oct2022	20	29OCT2022
Sprint-2	20	6 Days	31Oct2022	05Nov2022	20	05NOV2022
Sprint-3	20	6 Days	07Nov2022	12Nov2022	20	12NOV2022
Sprint-4	20	6 Days	14Nov2022	19Nov2022	20	10NOV2022

Velocity:

Imaginewehavea10-daysprintduration,andthevelocityoftheteamis20 (pointspersprint).Let'scalculatetheteam'saveragevelocity(AV)periterationunit (storypointsperday).

$$AV = \frac{sprint\ duration}{velocity} = \frac{20}{10} = 2$$

BurndownChart:

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies suchas Scrum. However, burndown charts can be applied to any project containing measurable progress overtime.

https://www.visual-paradigm.com/scrum/scrum-burndownchart/ https://www.atlassian.com/agile/tutorials/burndowncharts

Reference:

https://www.atlassian.com/agile/projectmanagementhttps://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-

jirasoftwarehttps://www.atlassian.com/agile/tutorials/epicshttps://www.atlassian.c om/ agile/tutorials/sprintshttps://www.atlassian.com/agile/projectmanagement/estimationhttps://www.atlassian.com/agile/tutorials/burndown-charts

CHAPTER 7 CODING & SOLUTIONING

7.1 FEATURE-1

Inthispage, theuser canadd the zone list, remove zone and add zone.

CODING:

```
<!DOCTYPEhtml>
     <htmllang="en">
     <head>
     </head>
     <body>
        <style>html
     ,body{ overflow-x:
      hidden; over flow-
      y: hidden;heig
      ht:100
       %; width: 100%; posi tion: ab solute; background-
       color:black;
                        background-image:
       url('https://wallpapercave.com/wp/5KLTq1z.jpg');back
       groundrepeat:no-repeat; background-size:
       cover;backgroundposition: top;z-index:-2;
     }
     #display{ color:
         white; fontsi
         ze:
         2.9em;top:10px;
                                   border-
       bottom:thinsolid;
padding-bottom:
20px;opacity:0.80;
       filter:alpha(opacity=80);/*ForIE8andearlier*/
```

```
#date
 {
 colo
 r:
 whit
 e;fo
 ntsiz
 e:1.3
 em;
 font-
 family:Georgia,"TimesNewRoman",Times,ser
 if;fontweight:normal; letter-spacing:
 0.2em; opacity: 0.6;
 filter:alpha(opacity=60);/*ForIE8andearlier*/
}
#footer{width:
                   40px; position:
 100%;height:
 fixed;bottom:1px; background-color:
 white;textalign:center;opacity:0.5;
 filter:alpha(opacity=50);/*ForIE8ande
 arlier*/
}
#line{
 widt
 h:
 100%;bottom:
 4em;positio
 n:fi xed;
 border-bottom:solidwhite;
```

```
padding:
15px;opacity: 0.5; filter:alpha(opacity=50);/*ForIE8andearlier*/
     }
     .navbar{position
       fixed; width: 100%; opacity: 0.6;
       filter:alpha(opacity=60);/*ForIE8andearlier*
     . wrapper \{ \\ background color: red; \\
      }
     span{
                         100px;opacity:0.75;
       border-radius:
       filter:alpha(opacity=75);/*ForIE8ande
       arlier*/
      }
     #content{height:
       45em;
      }p{
       maxwid
       th:
       30em;c
       olor:
       white;
       fontfam
      ily:"Ad
       obeCasl
```

```
onPro",
 "Hoefle
 rText",
 Georgia
 ,Garam
 ond,Ti
 mes,
 serif;let
 terspaci
 ng:0.1e
 m;
 textalig
 n:center
 ;margi
 n:40pxa
 uto;
 text-transform:
 lowercase; line height:
 145%; font-size:2em;
 font-variant:smallcaps;
}
p: hover\{
 text-decoration:none;
}
. container \{paddi
 ng
            -top:
 6em;textalign:c
 enter;
```

```
#b-nav{
      paddingbottom:
      5em;position:fix
      ed; width:
       100%;bottom
       :2em;
     #b-nav ul{margin
      0;padding:0.5em
      list-style-type: none;text-
      align:
      center;
      #b-nav ul li {display:inline;
}
     #b-navullia{
         textdecoration:
      none;padding: .2em
      1em;backgroundcolor:
      black; opacity: 0.4;
      filter:alpha(opacity=40);/*ForIE8andearlier*/
     }
     .hold{
      widt
      h:
```

```
100
 %;te
 xt-align:left;
}
#gen{
 outline:none;paddi
 ng -top:
 5px;textdecoration
 : none;opacity:0.6;
 background-color:
 black;color:white;
 border:thinsolidwh
 ite;h
    eight:40px;
 width:
 100px;borderradiu
 s:
 2px;transition
          0.5s;
 paddingbottom:5px;
#gen:hover{
 background-color:
 white;color:black;
 border: thin solid
 black;opacity:0.8;
#gena{
            textdecoration:none;
```

```
}
                                                       #date{ color:white;
                                                        }
                                                        @mediascreen
                                                                                                                                                                                                                   and(max-
                                                         devicewidth:800px)and
                                                                                                                                                                                                  (max-device-
                                                         height: 640px)and (webkit-device-pixel-
                                                         ratio:
                                                       2)and
                                                               (orientation:p
                                                                    ortrait){ p{
                                                                    fontsize:1em;
                                                                     }
                                                        }
                                                        .fa-twitter{ font-size:
                                                             30px !important;
                                                             marginleft:2
                                                             0px;
                                                        }
                                                                     </style>
<\!\!link rel = "style sheet" type = "text/css" href = "https://cdnjs.cloudflare.com/ajax/libs/font-properties for the complex of the complex
                                                                          awesome/4.7.0/css/font-awesome.min.css">
                                                              <bodyonload="startTime();startDate()">
                                                                     <divclass="container">
                                                                           <divid="date"></div>
                                                                          <divid="display"></div>
                                                                           <divid="content">
```

```
<divclass="logged"></div>
              <pid="quote">"SUCCESSFUL!"
              <ahref="\table"><buttontype="button">ZONELIST</button></a>
<ahref="\addzone"><buttontype="button">ADDZONE</button></a>
              <ahref="\removezone"><buttontype="button">REMOVEZONE</button></a
             </div>
            </div>
            </body>
             </html>
     7.1
           FEATURE-2
            Theusersget
        alerted from entering the contaminated zone by geofencing the location and sending it as \\
        notification.
       CODING:
        <!DOCTYPEhtml>
        <htmllang="en">
        <head>
        </head>
        <body>
        <style>htm
       1,
              body
        {
        background
       #333;
```

```
height:100%;ov
 e rflow: hidden;textalign:
 center;
}
.svg-wrapper {height:60px;
 margin:
              0
 auto;position:r
 elative; transform:
 translateY(-
 50%);width:320px;
}
.shape{
 fill:transparent;
 stroke-dasharray:140540;
 stroke-dashoffset: 474;strokewidth:
 8px;stroke:#19f6e8;
}
.text{
 color:#fff00;
```

```
fontfamily:'RobotoCond
 ensed';fontsize:22px; letter-
 spacing:
 8px;line-height:
 32px;position: relative;top:300px;
}
@keyframes draw
 {0%{
  stroke-dasharray:140540;
  stroke-dashoffset: 474;strokewidth:
  8px;
 }100%
  stroke-dasharray:760;
  stroke-dashoffset:
  0;stroke-width:2px;
 }
}
.svg-wrapper:hover.shape{
 -webkit-animation:0.5sdrawlinearforwards;
 animation:0.5sdrawlinearforwards;
```

```
</style>
<formaction="/loc"method="POST">
<br>>
<br>>
<input type="text" name="mail" class="input" id="mail" style="position: absolute;</pre>
left:20%; margin-left: 180px; width: 400px; height: 25px; background:grey; border:
8px solidblack;top:250px" placeholder="Enteremail-id" required>
<divclass="svg-wrapper">
       <div>
 <button
                     type="submit"
                                               id="button"
                                                                      class="text"
style="color:yellow;top:300px;backgroundcolor:#99ffff"><ahref="/loc">Notifyme</
a></button>
<pstyle="color:yellow;fontsize:18px;top:300px">EnteremailaddresstobenotifiedonandClick
onNotifymetogetalertmessageifyou are inContainmentZone
</div>
</form>
</div>
</body>
</html>
```

7.2DATABASESCHEMA



CHAPTER 8 TESTING

8.1 TESTCASES

- 1. Loginbuttonclick withwrong credentialsentered.
- 2. SignupwithalreadyregisteredmailID.
- 3. Signupwithwrongformdataentered.
- 4. Entering homepagewithloggedoutsession.
- 5. Clickinghomepagebuttonswithloggedoutsession.
- 6. Invaliddataenteredinchangepasswordpageandrequestedfor changein password.

8.2 USERACCEPTANCETESTING

S.NO	TEST CASE	REQUIRED OUTPUT	RESULT OUTPUT	STATUS	

1	Login button click with wrong credentials	Wrong credentials entered notification	Wrong credentials entered notification	ACCEPTED
2	Signup with already registered mail ID.	Email already registered notification	Email already registered notification	ACCEPTED
3	Signup with wrong form data entered.	Wrong credentials entered notification	Wrong credentials entered notification	ACCEPTED
4	Entering home page with logged out session.	Take user to login page	Take user to login page	ACCEPTED
5	Clicking home page buttons with logged out session.	Take user to login page	Take user to login page	ACCEPTED
6	Invalid data entered in change password page and requested for change in password.	Wrong form data entered notification	Wrong form data entered notification	ACCEPTED

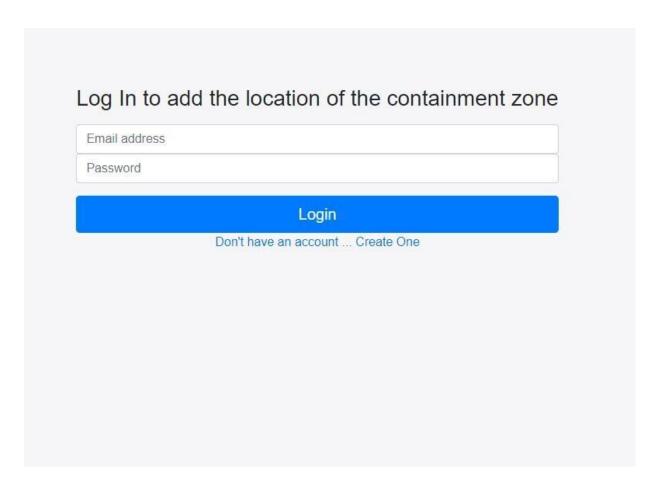
CHAPTER 9 RESULTS

9.1PERFORMANCEMETRICS

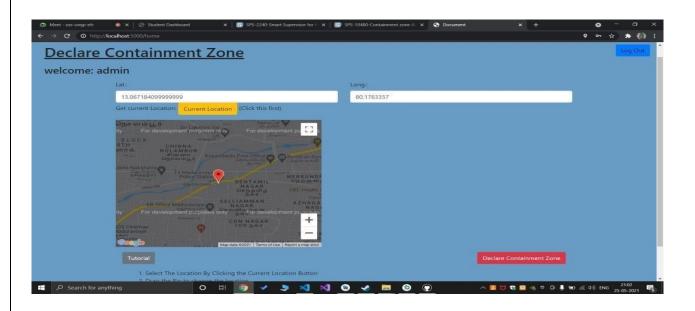
Thisappservicemonitorsthelocationandprovideinformationaboutthecon tami natedzones near a particular user and send notification to the user. It displays the contaminated zone area by geofencing the particular location.

Name	
Email address	
Password	
Signup	
Already have an account L	ogin

REGISTRATION FORM



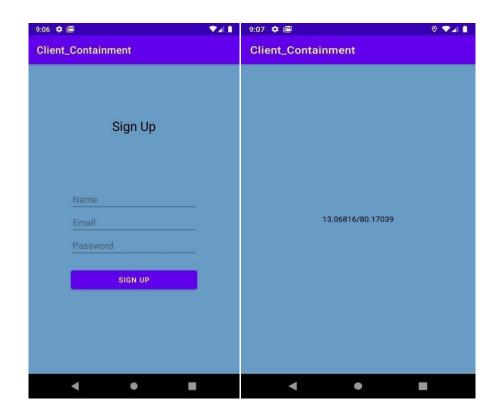
LOGIN FORM



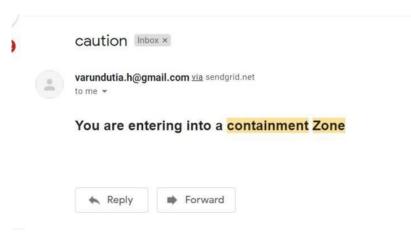
ADD CONTAINMENT ZONE



DISPLAY THE CONTAINMENT ZONE UPDATION DATA



USER SIGNUP AND CURRENT LATITUDE IN ANDROID APPLICATION



NOTIFY THE CONTAINMENT ZONE TO THE USER

CHAPTER 10

ADVANTAGES&DISADVANTAGES

10.1ADVANTAGES&DISADVANTAGES

The main advantage of containment zone alerting applications is that they can help toprevent the spread of diseases by alerting people to areas where there is a risk of infection. However, there are also some disadvantages to these applications, including the potential forfalse alarms and the possibility that people may ignore the warnings. 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. Keybenefits of the application are monitoring people's activity and alerting them of their safetymovements.

CHAPTER11

CONCLUSION

Weproposedaframeworkforidentifyingthecontaminatedzoneareasandstoreit in databaseforfutureuse. Then using the database, information is provided to the us erabou tcontaminatedzoneareasandalertingthembysendingnotification and geofencing the location. From the above information, it can be concluded that theCo ntainmentzone Alerting Application, in which we have successfully developed is a mobile applicationthatsendsalertstousers when they enteror exit a containment zone. T heappu ses GPStotrackthe user's location and sends an alert if the user enters The leaves containment or a zone. appalsoallowsuserstosetupalertsforspecificcontainmentzones. Ithas successfull yd emonstratedtheapplication.Inthisproject,wealertusersaboutthecontainment zone area by that the yareaware and realizeofhighcontainmentzonearea.

CHAPTER12 FUTURESCOPE

The application provides an efficient way of showing the identified COVID 19 conta in mentzone stotheusers in a Googlemap. With the alarming increase of COVID-19 affected cases throughout the world, this developed application can be employed as a tool for creating further social awareness among the people. This application further tracks the user's location and checks whether it is present in

the list of identified containment zones. Its ends separate notificational erts to the user on

enteringandexitingthecontainmentareas. The developed and roid application further

extracts the IMEIN umber of the trespasser in the containment zones which can be useful

to the local police to track and identify people who are frequently trespassing the contain

mentzones. The rebyth is application identifies the containment zones and highlight sthemed for taking further precautionary measures for combating COVID-

19. The application has been tested in various locations and has been found to yield accur

ateresults. The application can be further used form any purposes like maritime and for ests a fetytopre ventusers from entering restricted areas.

CHAPTER13 APPENDIX

The Containment zone alerting application is a mobile application that sends alerts to userswhen they are in close proximity to a containment zone. The app uses the user's location todetermine if they are in close proximity to a containment zone, and if so, sends an alert to theuser. The appalso allows users to view amapof containment zone sintheir area, and provides information on how to avoid contracting the virus.

HOME.HTML

<!DOCTYPEhtml>
<htmllang="en">
<style> body{
backgroundi
mage:

```
url('E:/background.jpg');background-
 repeat:norepeat;
                        background-
 attachment:
 fixed;background-size: cover;
a:link{colo
 r:gr een;
}
</style>
<head>
  <metacharset="UTF-8">
  <metahttp-equiv="X-UA-Compatible"content="IE=edge">
  <metaname="viewport"content="width=device-width,initial-scale=1.0">
  <title>CZAA|HOME</title>
  <metacharset="UTF-8">
    <!--favicon-->
    <!--<li>linkrel="shortcuticon"href="/assets/img/favicon.ico"type="image/x-icon">-->
    <!--<li>linkrel="icon"href="/assets/img/favicon.ico"type="image/x-icon">-->
    linkrel="icon"type="image/jpg"sizes="16x16"href="E:\nature.jpg">
    <!--bootstrapcsscdn-->
    link
                                                                         rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"integrity="
sha38 4-
i gin="anonymous">
    link
              rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/fontawesome/4.7.0/css/font-awesome.css">
    <!--cssstylesheet-->
```

```
<linkrel="stylesheet"href="css/style.css">
     <!--fontstylescdn-->
     <linkrel="preconnect"href="https://fonts.gstatic.com">
     k href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap"rel="st" st
ylesheet">
     linkhref="https://fonts.googleapis.com/css2?family=Alegreya:wght@600&display=swa
p"rel="s tylesheet"> </head>
<body>
     <!-- bootstrapnavbar-->
     <navclass="navbarsticky-topnavbar-expand-lgnavbar-dark">
       <divclass="container-fluid">
                                                                <aclass="main-logo-imgmt-
       3"href="#"><imgsrc="E:/smartintern.jpg"alt="sheep-logo"height="50px"
width="180px">
          <!--<aclass="navbar-brand"href="index.html">JobPortal</a>-->
         </a>
         <divclass="rowdonate-sponsor">
                  type="button"
                                      class="btn
     <a
                                                      btn-success
                                                                       mr-1"
                  id="donate"href="login.html">LOGIN</a>
                  <atype="button"class="btnbtn-successmr-1"id="donate"href="medreg.html">MED
LOGIN</a>
                                     class="btn
                 type="button"
                                                                      mr-1"
                                                     btn-warning
     <a
                  id="sponsor"href="register.html">REGISTER</a>
                                                                      mr-1"
                  type="button"
                                     class="btn
                                                     btn-primary
     <a
                  id="sponsor"href="contact.html">CONTACTUS</a>
         </div>
       </div>
      </nav>
```

```
<!-- navbarends-->

<!--what wefocuson-->

<sectionclass="our-focus">

<divclass="container">

<h2class="text-centermt-3">Aboutus</h2>

<divclass="rowml-3mt-3">

<divclass="col-lg-3mr-5"id="focus-first">

<divclass="card"style="width:19rem;">

<divclass="card-body">

<h5class="card-title">Mission</h5>
```

```
<pclass="card-text"><i>Themissionofthecontainmentzonealertingapplication
                                                                                                        to
         provide alerts to users in containment zones in order to prevent the spread of COVID-19.</i>
                      </div>
                     </div>
                   </div>
<divclass="col-lg-3mr-5"id="focus-second">
                     <divclass="card"style="width:20rem;">
                      <divclass="card-body">
                       <h5class="card-title">Vission</h5>
                       <pclass="card-</pre>
         text"><i>TheContainmentZoneAlertingApplicationisdesignedtohelpauthoritiesalertthepublicabo
         utare
         asthathavebeendesignatedascontainmentzones. The appwill allows erstosee a map of the containment
         zone andreceivealerts when they are nearone. The app will alsoprovide information on how
         toavoidcontractingandspreadingthedisease.</i>
                      </div>
                     </div>
                   </div>
                   <divclass="col-lg-3ml-5"id="focus-third">
                     <divclass="card"style="width:20rem;">
                      <divclass="card-body">
                       <h5class="card-title">Objective</h5>
                           <pclass="card-text"><i>Theobjectiveofthecontainmentzonealertingapplication is to
                   alert the residents of the containment zone about the outbreak of a disease.
         Itwillhelpthemtotakepreventivemeasurestoavoidthe disease.</i>
                      </div>
                     </div>
                   </div>
```

```
</div>
                                                                              </div>
                                                                        </section>
                                                                        <footer>
                                                                           <center>
                                                                                         <divclass="col-xs-2col-md-4">
                                                                                               <h3><b>GetinTouch<b></h3>
                                                                                               <ulclass="footer-links">
<h5>E-mail:<ahref="mailto:test@gmail.com">ibm@gmail.com</a></h5>
                                                                                                     <h5>Mobile:<a href="9304050989">+919304050989</a></h5>
                                                                                               </div>
                                                                                                                                                    </center>
                                                            </footer>
                                                                        </body>
                                         </html>
                                          LOGIN.HTML
                                         <!DOCTYPEhtml>
                                         <html>
                                         <head>
                                         <metaname="viewport"content="width=device-width, initial-scale=1">
                                         <link rel="stylesheet"</pre>
                                         href = "https://cdnjs.cloudflare.com/ajax/libs/fontawesome/4.7.0/css/fontawesome.min.css" > 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 + 1.00 +
```

```
<style
   >
   body{
    font-family: Arial, Helvetica, sans-serif;
   }
   *{
   boxsizing:borderb
ox; }
   /*stylethecontainer
   */
   .container{position:
   relative;borderradiu
   s:5px; backgroundcolor:
    #f2f2f2;padding:20px030px0
}
   /* style inputs and link buttons
   */input,
   .btn{ width:100%;p
    adding \\
    12px;border:
    none;borderra
    dius:4px;
    margin:5px0;
    opacity:0.85;
    display:
    inlineblock;fo
    ntsize:
           17px;
    lineheight:20px;
    text-decoration:none;/*removeunderlinefromanchors*/
   input:hover,
   .btn:hover
    {opa
```

```
city:1;
}
/* add appropriate colors to fb, twitter and google buttons */\\
.fb{
 backgroundcolor:
 #3B5998;color:white;
}
.twitter{ background-color:
 #55ACEE;color:white;
.google{ background-color:
 #dd4b39;color:white;
}
/*stylethesubmitbutton*/ input[type=submit]{background-
 color:
#04AA6D;color:white; cursor:pointer;
}
input[type=submit]:hover
 {background-color:#45a049;
/*Two-columnlayout*/
.col{float
:le
        ft;
width:
50%;mar
gin: auto;pad
ding: 0
50px;mar
gintop:6p x;
/*Clearfloatsafterthecolumns*/
```

```
.row:after
{conte nt:
"";displa y:
table;cle
ar:bot h; }
/*verticalline*/
.vl{ position:absol ute;le
 ft:50%;
                 transform:
 translate(50%);border: 2px
 solid
 #ddd;height:175px;
}
/*textinsidetheverticalline*/
.vlinnertext{position:
absolute;top:50%;
transform: translate(50%,
50%);backgroundcolor:
 #f1f1f1;border:1pxso
                borderradius:
 lid#ccc;
 50%;padding:8px10p
 X
/*hide some text on medium and large screens*/\\
.hide-md-lg
  {display:none;
}
/* bottomcontainer*/
.bottom-container
        {textalign:center;
        backgroundcolor:#666; border-
 radius:
```

```
0px0px4px4px;
                               }
                              /*Responsivelayout-whenthescreenis
                              less than 650 px wide, make the two columns stack on topo feach other instead of next to each other */ New York of the property of the columns of the property of the proper
                               @mediascreenand(max-width:650px) {
                                   .col{ width:10 0%; margintop:0;
                                   /*hidetheverticalline*/
                                    .vl{ display:
                                       none;
                                   /*showthehiddentext onsmallscreens*/
                                    .hidemdlg{display:block
                                       ;te xt-align:center;
                                    }
                               }
                              </style>
                              </head>
                              <body>
                              <h2><b>LoginForm<b></h2
                              <divclass="container">
                                    <formaction="/action_page.php">
                                        <divclass="row">
<h2style="text-align:center">LoginwithSocialMediaorManually</h2>
                                             <divclass="vl">
                                                <spanclass="vl-innertext">or</span>
                                             </div>
                                             <divclass="col">
                                                <ahref="#"class="fbbtn"> <iclass="fafa-facebookfa-fw"></i>LoginwithFacebook </a>
                                                <ahref="#"class="twitterbtn">
                                                     <iclass="fafa-twitterfa-fw"></i> LoginwithTwitter
                                                </a>
                                                <ahref="#"class="googlebtn"><iclass="fafa-googlefa-fw">
```

```
</i>LoginwithGoogle+
     </a
    </div
    >
    <divclass="col">
     <divclass="hide-md-lg">
      Orsigninmanually:
     </div>
     <inputtype="text"name="username"placeholder="Username"required>
     <inputtype="password"name="password"placeholder="Password"required>
     <inputtype="submit"value="Login">
    </div>
  </div>
 </form
> </div>
<divclass="bottom-container">
 <divclass="row">
  <divclass="col">
    <ahref="#"style="color:white"class="btn">Signup</a>
  </div>
  <divclass="col">
    <\!\!ahref="\#"style="color:white"class="btn">\!\!Forgotpassword?<\!\!/a
  > </div>
 </div>
</div>
</body>
</html>
REGISTER.HTML
<!DOCTYPEhtml>
<html>
<head>
```

```
<metaname="viewport"content="width=device-width, initial-scale=1">
  <style
  >
  body{
    font-family: Arial, Helvetica, sansserif; backgroundcolor: black;
   *{
           boxsizing:
    borderbox;
  /*Addpaddingtocontainers*/
  .container{paddin
           :16px; background-
    color:white;
}
  /*Full-widthinputfields
  */input[type=text],input[type=password]{ width:100%;padding:1
    px;margin:5px022px0;
          isplay:
    inlineblock;border:non
    e;back ground:#f1f1f1;
   }
  input[type=text]:focus,input[type=password]:focus{backg
    round-
  color:#ddd;
  outline:non
  e; }
  /*Overwritedefaultstylesofhr
                                    */hr{
    border:1pxsolid#f1f1f1;mar
    ginbottom:25px;
  /*Setastyle for the submit button*/
  .registerbtn{ background-color:
```

```
#04AA6D;color:white
 ; padding: 16px
 20px;margin:
                      8px
 0;border:none;cursor:
 pointer; width: 100%; opacity: 0.9;
.registerbtn:hover
 {opacity:1;
/* Add a blue text color to links */a{ color:dodgerblue;
/* Setagreybackground colorand centerthetext of the "sign in "section */
.signin{
 backgroundcolor:
 #f1f1f1;text-align:center;
}
</style>
</head>
<body>
<formaction="/action_page.php">
 <divclass="container">
   <h1>Register</h1>
   Pleasefillinthisformtocreateanaccount.
   <hr>
   <labelfor="email"><b>Email</b></label>
   <inputtype="text"placeholder="EnterEmail"name="email"id="email"required>
   <labelfor="psw"><b>Password</b></label>
   <inputtype="password"placeholder="EnterPassword"name="psw"id="psw"required>
```

GITHUBACCOUNT

https://github.com/IBM-EPBL/IBM-Project-33892-1660228685