

# Covid-19 Safety Protocol **Tracker**





### **TEAM MEMBER ROLES**



Sai Sindhu Developer



Anil Babu Developer



Anivi Reddy Developer

### **TEAM MEMBER ROLES**



Sahith
Quality
Analyst/Tester



NIKHIL
Scrum master &
QUALITY ANALYST



Bharadwaja Developer

#### IMPROVEMENTS MADE FROM PROFESSOR'S FEEDBACK

- Improvements from Professor's feedback slide can be listed by using bullet points making it more visible to the user.
- Change the MVP slide introductory image. The image does not show MVP.
- Conceptual Architecture Diagram can be improved by showing what technologies at which step they are being used.
- No need for the "Place" column in the presentation. In Backlog the team just needs to show the last sprint backlog in this case Sprint 3.
- Sprint 1 does not need any kind of metrics.
- The same Burndown chart was being used in Sprint 2. Every sprint has different burndown charts.
- The team needs to work more on Retrospective.

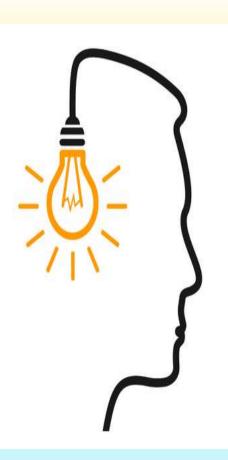


## PROBLEM STATEMENT



Over the last two years, Social Distancing has become increasingly prevalent as a part of the Covid-19 pandemic outbreak. According to international health authorities, interpersonal communication is the principal primary contributor to the pandemic's spread. To avoid the spreading, it is therefore necessary to maintain the necessary spacing with some effort. In addition, developing an automated Contact Detection step that secures privacy would be beneficial to prevent further infection. Today's smartphones are not just for communication; they can also detect numerous characteristics of their environment (movement, proximity, orientation, etc.). In addition, now a days practically everyone utilizes a smartphone. Reflect on these facts The issue is resolved by a mobile app that can notify users when it detects that a person is approaching from a closer distance than is advised.

### PROJECT DESCRIPTION



Our product is focused on COVID-19 safety Protocols. It is designed to ensure that people are adhering to social distancing guidelines. Ultimately, it can help make people and the community safer from the virus. This is a tracking app that uses a smartphone's GPS and Bluetooth features to track COVID-19 case. Bluetooth technology enables users to assess their risk of being exposed to the COVID-19 virus if they have been within six feet of a confirmed case. It is also able to detect specific locations that are deemed 'infected area's through location data analysis, and crowd sourcing, this data so it is easily accessible for decision making purpose. The idea behind the app was to make people aware of their risk, and give them the tools to protect themselves from contracting the virus. We developed a product that would be a cost-effective measure for protecting profits and human life. The idea for our product is based on the idea of a "control" to prevent COVID-19 from spreading. It would be an app that uses Bluetooth and GPS capabilities to track COVID-19 cases and would also provide alerts in case it detects COVID-19 in an area. This product was designed to be inexpensive, effective, providing information necessary for the public's awareness of where the virus is being spread. We designed this app as incentive to prevent someone from spreading the virus as they are able to see how close they are getting near people who have contacted it.

### TEAM WORKING AGREEMENT

#### **Communication:**

We agree to communicate regularly and effectively, keeping each other informed about our progress, questions, and concerns. All the team members agree to have meetings via teams weekly twice.

#### **Participation:**

We agree to actively participate in all team meetings and discussions, and to contribute our unique skills and perspectives to the project.

#### **Team Members:**

#### **Deadlines:**

We agree to meet all deadlines set by the team and to inform the team as early as possible if we anticipate any **Sai Sindhu Jammula** difficulties meeting a deadline.

#### **Respect:**

We agree to always treat each other with respect and professionalism, even in the face of disagreements or challenges.

#### **Anil Babu Tota**

#### Feedback:

We agree to give and receive constructive feedback openly and honestly, with the goal of improving our work and the project.

#### Anivi Reddy Yarabolu

#### Roles and Responsibilities:

We agree to clarify our roles and responsibilities within the team, ensuring that each team member understands their specific tasks and deadlines.

#### Bharadwaja Vemulapally

#### **Confidentiality:**

We agree to maintain confidentiality about any sensitive or confidential information related to the project, as agreed upon by the team.

#### Nikhil Reddy Thamma

#### **Quality:**

We agree to prioritize quality in our work, and to take the necessary time and effort to ensure that our contributions meet the standards of the team.

Sahith Chowdary

#### **Conflict resolution:**

We agree to resolve any conflicts or disagreements that arise within the team in a timely and respectful manner, seeking input from all team members and striving for a mutually acceptable solution.

#### **Accountability:**

We agree to hold ourselves and each other accountable for our actions and contributions to the project, and to take responsibility for any mistakes or errors we make.

## > PERSONAS



### **PERSONA 1**



#### **Profile**

Name: Christiana

Age: 24

Location: New York, NY

Job: Student

Family: Lives with her

boyfriend

#### **About**

Christiana is a student who is pursuing her masters in a public university.

#### Goals

In the process of going to the college she will travel a lot and meet lot of random people who might got affected by covid virus.so, she want to be careful for which she need to protect herself form covid and covid patients she use our app which was built for covid detection of covid effected persons nearby distances of 6ft with the help of location and Bluetooth tools .she gets notification that she was in danger zone that someone near to her is effected by covid in 6ft distance.so that she can take precautions. Like maintain proper social distances.

## PERSONA 2



### **Profile**

Name: Maddy

*Age: 35* 

Location: New Jersey, NJ

Job: Senior nurse Salary: \$74000/year Family: Husband

#### **About**

Maddy is a senior nurse she will makes regular bp and temperature of the patients.

#### Goals

Maddy, a nurse in a public hospital, is often overwhelmed with multiple patients. It would be immensely useful if she had a mobile application that could detect who is within 6ft of her location. This would make her job much easier and safer. Both scenarios will require Maddy to do a set of certain tasks for the app to perform its intended action. For the scenario, she must create an account, install and activate her mobile application, use the app at work for it to detect where she is within 6ft of her current location. Maddy must store her account information, so the app can detect where she is within 6ft of her current location.

### PERSONA 3



#### **Profile**

Name: Sourabh

*Age: 44* 

Location: Alabama, Ga Job: Chief Security Officer

*Salary:* \$112000/year

Family: Two children and wife

### **About**

Sourabh was a chief security officer at a shopping complex who checks every customer at the entrances of the mall.

### Goals

Sourabh goal is to check each and everything of every single customer whether they are healthy or got effected by the covid. Through our app he gets the notification when any persons effected by the covid is near to him in 6 ft distances. so then he stops them and take the measures to get them the prescribed quarantine so that the other people in the mall doesn't get effected.



The following are the features we are covering in our MVP:

- Onboarding screens
- Registration Page
- Login Page
- Home Page
- Scanning functionality in Bluetooth page
- QR code functionality in Friends list page
- Alerts Page

### **Onboarding Screens:**

Onboarding screen has introduction message to the app and provides basic information about the application. From onboarding screens, user has a button to login/register.

### **Registration Page:**

User should be able to enter their details in the provided fields and click on the register button.

### **Login Page:**

User should be able to enter their credentials and click on the login button.

### **Home Page:**

From the home page user should be able to navigate through all the features of the application. For example Friends tab, Bluetooth tab, Notifications Tab, Settings Tab.

#### Friends Tab:

QR code is displayed for the application and This QR code can be scanned by another registered application user add the current user to their friends list.

#### **Bluetooth Tab:**

Scan button is available in the blue tooth tab which will enable to device Bluetooth and scan for devices in the Bluetooth area.

#### **Notification Tab:**

User should be able to see Alerts or Notifications in this Tab.

### **Settings Tab:**

User has option to edit their profile and send feed back about the application to admin team through this tab.

## **TECHNOLOGIES**







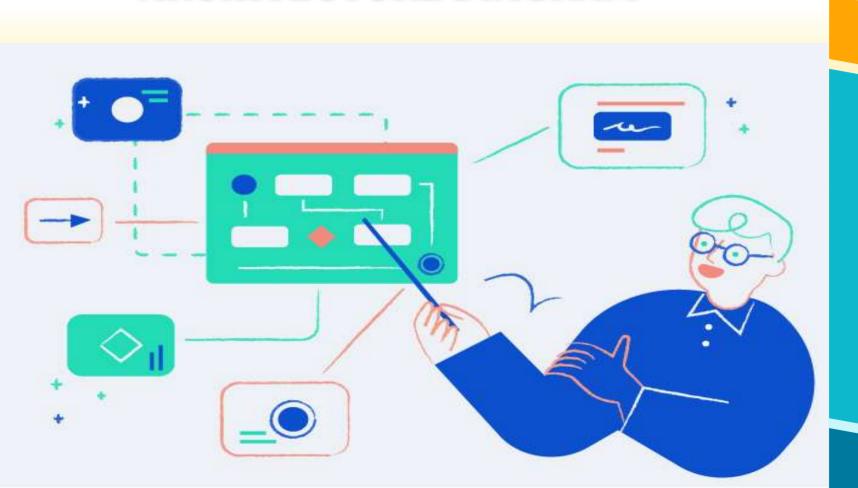




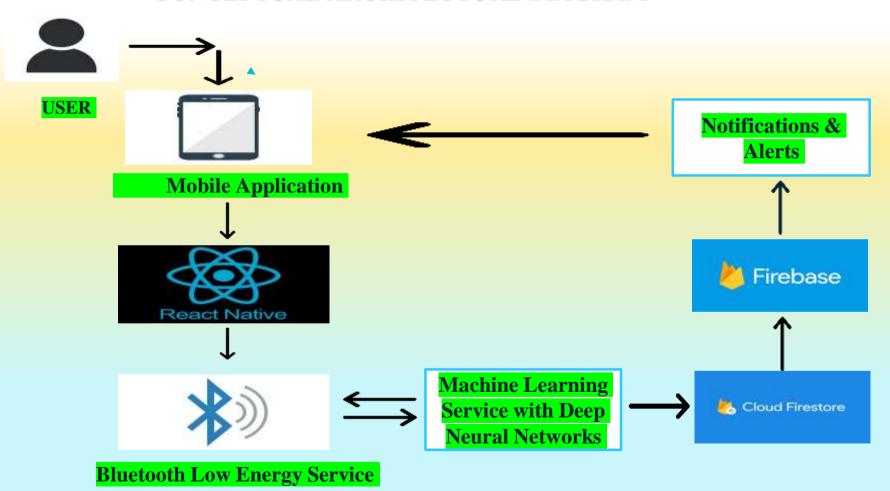




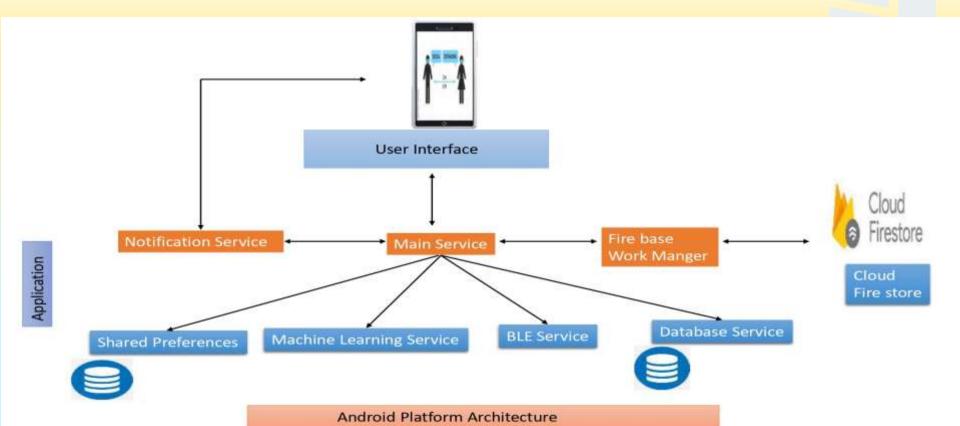
## **ARCHITECTURE DIAGRAM**



#### CONCEPTUAL ARCHITECTURE DIAGRAM



## SEQUENCE ARCHITECTURE DIAGRAM



## **SPRINT 3 RECAP**

Cov-19

Cov-20

ID	Summary	Status	Place
	As a registered user I want to logout from the application so that I can log in again whenever I want.	Done	Logout
	As a user, I want to create my account to the application so that I can Keep my account private and Signup Using Name, Email and Password.	Done	Sign Up
	As a user, I want to login using my email id as my user id so that I can access my account	Done	Login

Home

Home Page

Done

Done

page

As a user, I want to navigate between pages so that I can

As a user, I want to access the feature in home page

quickly access the features I need

## SPRINT 3 RECAP

Cov-22

Cov-23

Cov-24

Cov-25

ID	Summary	Status
	As a registered user I want to see the option for changing the user's name in settings page so that I can change the user's name.	To be Done

As a registered user I should be able to add my friends through QR code

application so that application management will get feedback from users.

so that I can start searching for infected users near my location.

that I can stop scanning for infected users in the application.

As a registered user I want to have a functionality to send feedback about the

As a registered user I want to see the play the button in the Bluetooth screen page

As a registered user I want to see the pause button in the Bluetooth screen page so

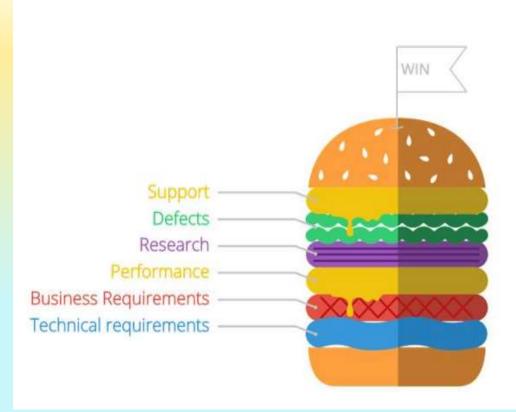
To be Done

To be Done

To be Done

To be Done

## PRODUCT BACKLOG



# PRODUCT BACKLOG

As a team we should have team work agreement with all rules and regulations.

As a user I should be able to see the welcome page for Application.

As a user I should be able to reset the permissions for application anytime.

Cov-2

Cov-3

Cov-4

Cov-5

Cov-6

Cov-7

Cov-8

Cov-9

Cov-10

project.

how application works.

data in mobile.

ID	Summary	Status
Cov-1	To gather all the requirements for the project.	Done

As a team we should divide roles and responsibilities among ourselves to develop the project.

As a team we should plan the product requirements and development plan for the project.

As a user I should have a Apk file which can be installed in mobile with basic functionalities.

As a user I should be able to see the Knowledge page after welcome page, which has information of

As a user I should be able to give all the required permissions to application to access the required

As a team we should develop required technical and functional knowledge required to complete the Done

Done

Done

Done

Done

Done

Done

Done

Done

As a user I should be able to get pop up notification to turn on Bluetooth if application is being used.

As a user I should be able to get pop up notification, asking required permissions for the application

As a registered user I want to logout from the application so that I can log in again whenever I want.

As a user, I want to create my account to the application so that I can Keep my account private and Signup Using Name,

As a registered user I should be able to see the home page, once I login in to the application.

As a user, I want to login using my email id as my user id so that I can access my account

As a user, I want to navigate between pages so that I can quickly access the features I need

Status

Done

		PRODUCI	BACKLUG	
ID	Summary			

As a user I should be able to the user name and get registered in the application.

As a user I should be able to see the Registration page for the application.

Cov-11

Cov-12

Cov-13

Cov-14

Cov-15

Cov-16

Cov-17

Cov-18

Cov-19

Cov-20

Email and Password.

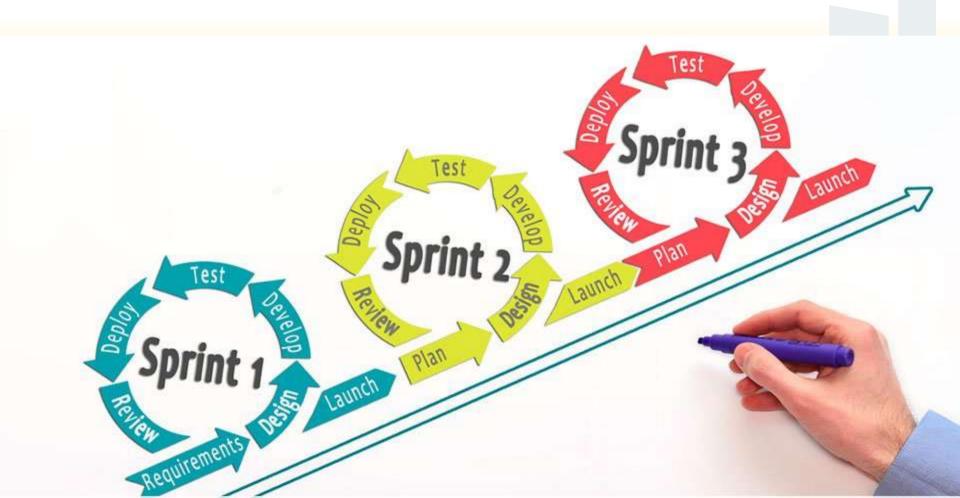
As a user, I want to access the feature in home page

## PRODUCT BACKLOG

Cov-28

ID	Summary	Status
Cov-21	As a registered user I want to see the option for changing the user's name in settings page so that I can change the user's name.	Done
Cov-22	As a registered user I should be able to add my friends through QR code.	Done
Cov-23	As a registered user I want to have a functionality to send feedback about the application so that application management will get feedback from users.	Done
Cov-24	As a registered user I want to see the play the button in the Bluetooth screen page so that I can start searching for infected users near my location.	To be Done
Cov-25	As a registered user I want to see the pause button in the Bluetooth screen page so that I can stop scanning for infected users in the application.	To be Done
Cov-26	As a registered user I want to see the option for marking as covid 19 infected person in settings page so that I can update my status whenever I diagnosed with covid.	To be Done
Cov-27	As a registered user I should be able to send my application QR code to my friend to add in the friend list.	To be Done
	As a registered user I want to see the option for deleting my account in settings page so that I can delete my account.	To be Done

### **SPRINT SUMMARY**



### **SPRINT 1**

- ✓ Our product is focused on COVID-19 safety Protocols. It is designed to ensure that people are adhering to social distancing guidelines. Ultimately, it can help make people and the community safer from the virus. This is a tracking app that uses a smartphone's GPS and Bluetooth features to track COVID-19 case.
- As a user I want to be able to receive alerts when a place becomes too crowded or when I am approaching a crowded area, so that I can adjust my plans . As a user, I want to be able to access up-to-date information about the local COVID-19 situation, so that I can make informed decisions about where and when to go out.
- ✓ To ensure effective teamwork in developing our social distancing project, we need to establish clear rules and regulations with a teamwork agreement. As a team, we should divide roles and responsibilities among ourselves to ensure everyone contributes effectively to the project's development. We need to develop the required technical and functional knowledge necessary to complete the project and plan the product requirements and development plan. This will help us gather all the requirements for the project and ensure that we are on track to meet our goals.
- ✓ As an end-user of the social distancing application, I want an easy-to-install APK file with basic functionalities that help me stay safe during the pandemic. This includes a welcome page and a knowledge page with information on how the application works. Additionally, I want to be able to grant all necessary permissions to the application to access the required data on my mobile device. If needed, I want the option to reset these permissions at any time.

### **SPRINT 2**

- ✓ As the social distancing project progresses, the development team should continuously gather professor feedback to improve the application's functionality and usability. The team can then use this feedback to identify areas of improvement and prioritize new features. By regularly seeking feedback and incorporating it into the development process, the team can create an application that meets the needs of its users and helps them stay safe during the pandemic.
- As an end-user of the social distancing application, I want to be able to register and create an account for the application. I should be able to see the registration page for the application and enter my username, email, and password to complete the registration process. Once registered, I should be able to log in to the application using my email ID and access my account.
- ✓ To ensure the application is being used effectively, the user should receive pop-up notifications to enable Bluetooth and grant required permissions. Once logged in, registered users should be able to access the home page and navigate between pages to quickly access the features they need. Users should also have the option to log out of the application and log in again whenever they want.
- ✓ Additionally, users want to access the feature in the home page, which should include all the functionalities that help them stay safe during the pandemic. This feature should be easily accessible and provide users with the necessary information and tools to maintain social distancing and follow safety guidelines. Overall, the application should be user-friendly and provide users with the necessary features to ensure their safety during the pandemic.

## **SPRINT 3**

ID	Summary	Status	Place
	As a registered user I want to logout from the application so that I can log in again whenever I want.	Done	Logout
	As a user, I want to create my account to the application so that I can Keep my account private and Signup Using Name, Email and Password.	Done	Sign Up
	As a user, I want to login using my email id as my user id so that I can access my account	Done	Login
Cov-19	As a user, I want to navigate between pages so that I can quickly access the features I need		Home page

As a user, I want to access the feature in home page

Cov-20

home page
Done

Home Page

### **SPRINT BACKLOG**



SPRINT 4 BACKLOG

ID

Cov-21

Cov-23

Cov-24

Cov-25

Summary	Status	

Cov-22 As a registered user I should be able to add my friends through QR code

As a registered user I want to have a functionality to send feedback about the application so that application management will get feedback from users.

To be Done

To be Done

As a registered user I want to see the pause button in the Bluetooth screen page so

so that I can start searching for infected users near my location.

that I can stop scanning for infected users in the application.

As a registered user I want to see the option for changing the user's name in

settings page so that I can change the user's name.

As a registered user I want to see the play the button in the Bluetooth screen page To be Done

To be Done

To be Done

ID Summary Status

As a registered user I want to see the option for changing the user's name in settings page so that I can change the user's name.

As a registered user I want to see the option for changing the user's name in settings page so that I can change the user's name.

Done

As a registered user I should be able to add my friends through QR

As a registered user I should be able to add my friends through QR code

As a registered user I want to have a functionality to send feedback about the application so that application management will get

Cov-23 feedback from users.

ACCI	ACCEPTANCE CRITERIA TABLE				
ID	Scenario	Sui			
		Civan am a user of the application			

Cov-21	see the option for changing the user's name in settings page so that I can change the user's name.	I want to see the option for changing the user's name in the settings page so that I can update the user's name as needed.  As a user, I want the option for changing the user's name to be clearly labeled in the settings page so that I can easily find and use it.  so that I can update the user's name if it was entered incorrectly.  I want the option for changing the user's name in the settings page so that I can change the user's name if it no longer accurately reflects the user's identity.	Home pag
		Given am a user of the application	

**Summary** 

**Place** 

Cov-22

As a registered user I should be able to add my friends through QR code

Given am a user of the application

I want to see the QR code generated in my application so that I can send QR code to my friends and so that I can add them in my friends list.

Home page

#### **ACCEPTANCE CRITERIA TABLE**

ID	Scenario	Summary	Place
Cov-23	As a registered user I want to have a functionality to send feedback about the application so that application management will get feedback from users.	Given am the user of the application I want to see the option for sending feedback to the admin team of the application so that I can share my feedback about application to the admin team of the application.	Home page

Home

page

Home

page

Cov-21

Cov-22

**TEST CASES** 

As a registered user I want to see

the option for changing the user's

name in settings page so that I can

As a registered user I should

be able to add my friends

through QR code.

change the user's name.

ID	Unit	Scenario	Test Data	Steps to be Expected	<b>Expected Result</b>
	Of Test				

Verify that an option for changing the user's name is

Friends Tab, Scenario: As a registered user I want to see the QR code in my application so that I can send QR code to my friends. Test data: Login as a registered

generated by the application from another device, verify |Login > Friends Tab

user, Navigate to the Friends Tab, scan the QR code

that the you added to the friends list of registered user

An option for

Login>Homepage

changing the user's

name is displayed in

the settings page for

registered users.

The user is added

to the friends list

by using OR code

Login as a registered user.

displayed.

of another device.

Navigate to the settings page.

## **TEST CASES**

ID	Unit of Test	Scenario	Test Data	Steps to be Expected	<b>Expected Result</b>
Cov-23	Home page	As a registered user I want to have a functionality to send feedback about the application so that application management will get feedback from users.	Login as a registered user, Navigate to settings page, click on the send feedback button, compose the message and send the feedback. verify that the mail Login as a registered user, Navigate to settings page, click on the send feedback button, compose the message and send the feedback. verify that the mail has been sent to the recipient.	Login>Settings	Main has been successfully sent to the recipient.

## **Stories Completed in Sprint 4**

Cov-23

ID	Summary	Status
	As a registered user I want to see the option for changing the user's name in settings page so that I can change the user's name.	Done
Cov-22	As a registered user I should be able to add my friends through QR code.	Done
		_

As a registered user I want to have a functionality to send feedback about the

application so that application management will get feedback from users.

Done

Stories not Completed in Sprint 4

Cov-25

ID	Summary	Status	

As a registered user I want to see the play the button in To be the Bluetooth screen page so that I can start searching Cov-24 Done for infected users near my location.

As a registered user I want to see the pause button in

the Bluetooth screen page so that I can stop scanning

for infected users in the application.

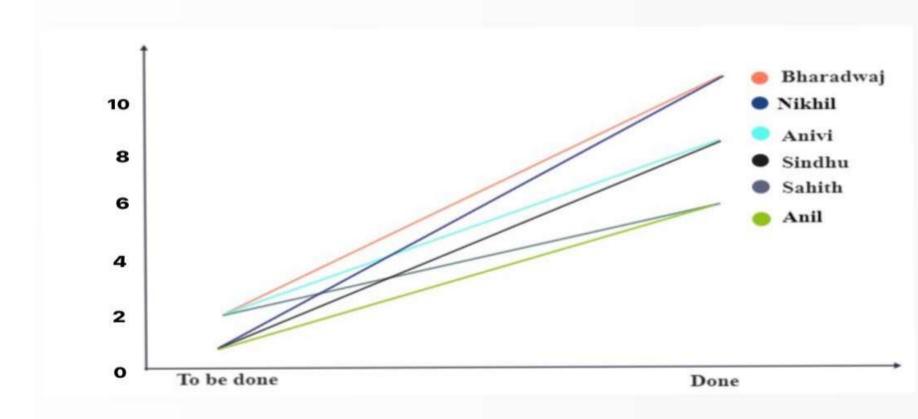
To be

Done

## **METRICS**

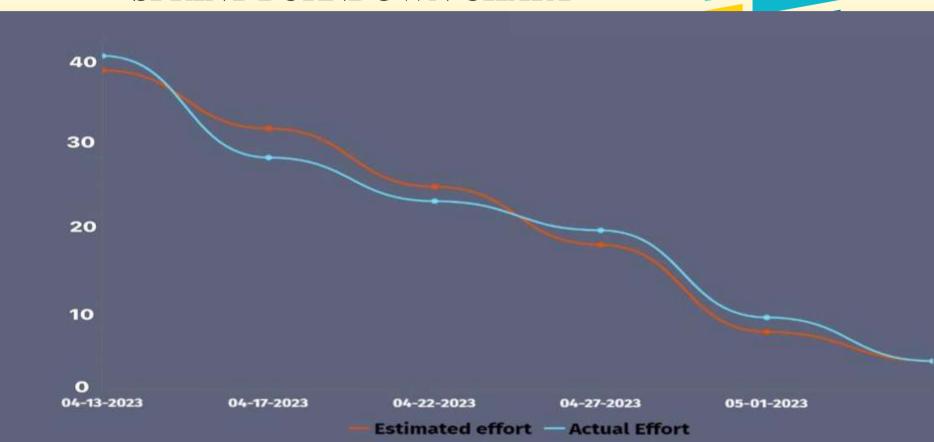


# METRICS TEAM MEMBERS VELOCITY REPORT



## **METRICS**

#### SPRINT BURNDOWN CHART



#### RETROSPECTIVE

#### What went well?

We have planned and distributed the tasks in a organised way and executed it. Team meetings were conducted on time with out fail to get the updates from team members.

#### What needs improvement?

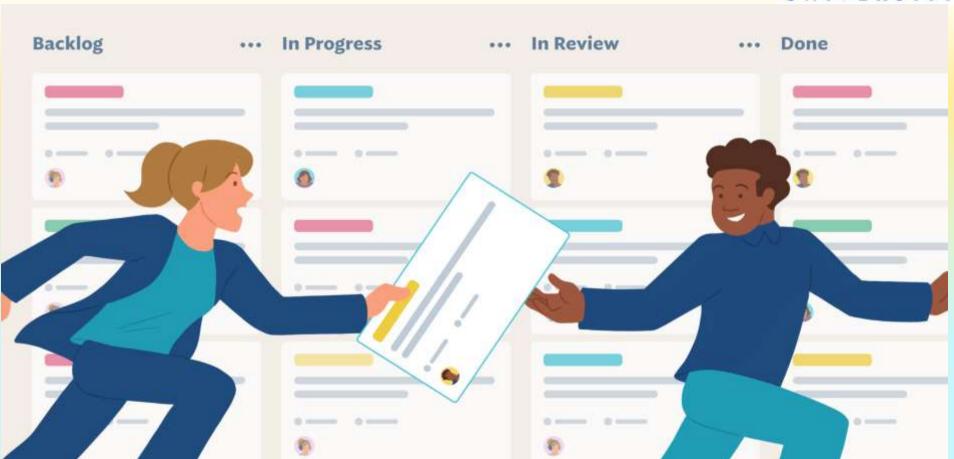
Co-ordination and communication between team members can be improved so that it will avoid reworking. Team members must complete their tasks on time with out fail.

#### Next steps:

We are going to maintain status report from next sprint so that we can note down the team members status and their updates. We are going to put a deadline for user stories earlier so that we have some time for unexpected last minute tasks.

## **SPRINT 5**





## Stories planned and committed for Sprint 5

**Status** 

To be Done

ID	Summary
	As a registered user I want to see the play the button in the Bluetooth screen page so that I can start searching for infected users near my location.
	As a registered user I want to see the pause button in the Bluetooth screen page so that I can stop scanning for infected users in the application.
	As a registered user I want to see the option for marking as covid 19 infected

Cov-26 with covid.

Cov-28

Cov-27 friend to add in the friend list.

settings page so that I can delete my account.

person in settings page so that I can update my status whenever I diagnosed

As a registered user I should be able to send my application QR code to my

As a registered user I want to see the option for deleting my account in

## App Logo



# PROJECT DEMO SPRINT 4

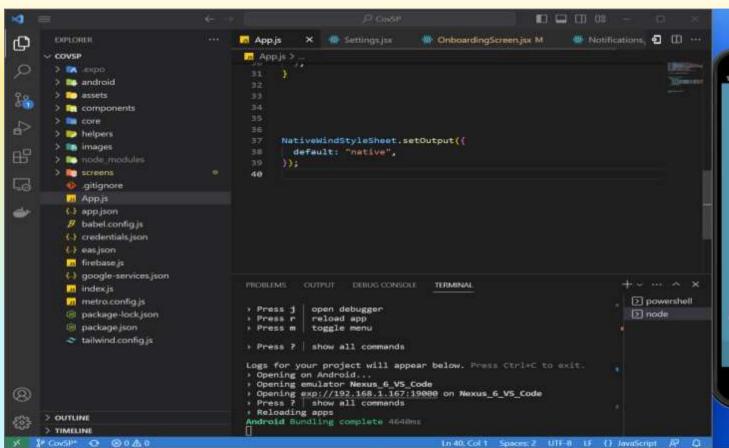


## PROJECT DEMO SPRINT 4

**Project Demo:** 

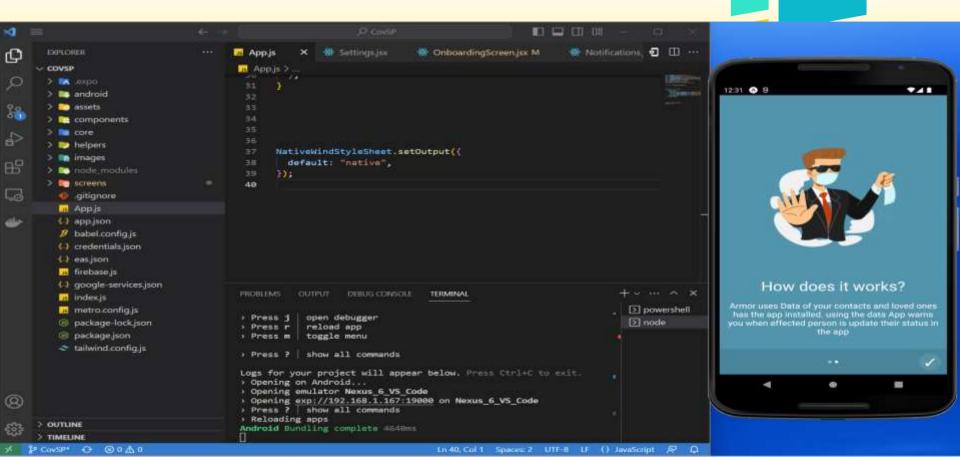


#### **Welcome Page**

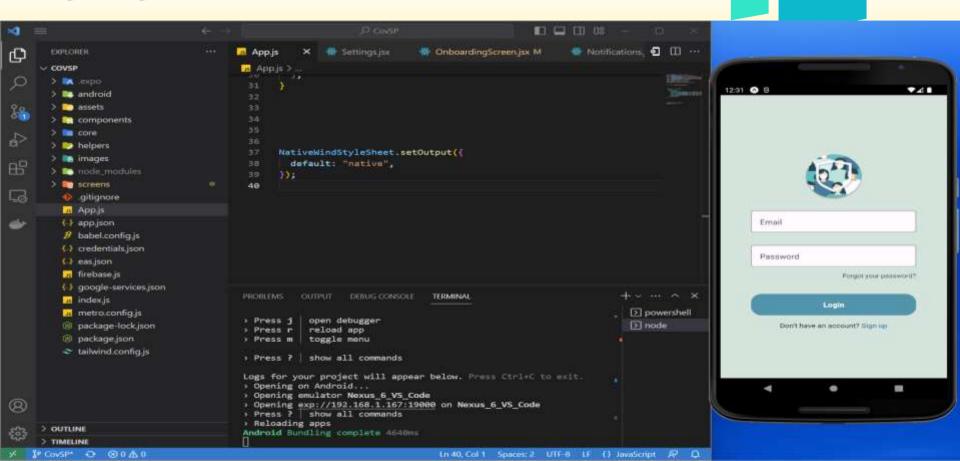




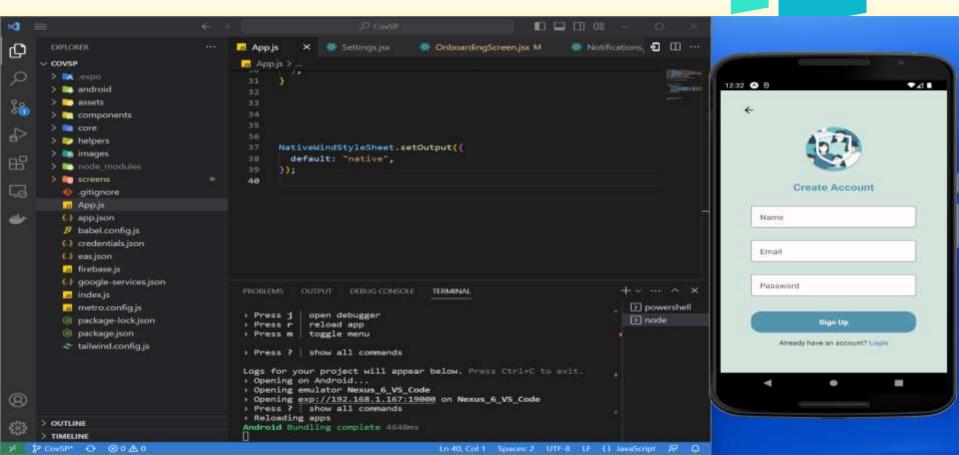
#### **Onboarding Screen**



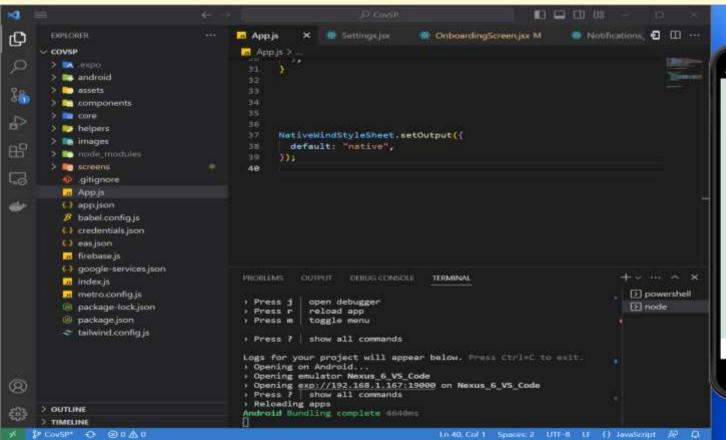
#### **Login Page**



#### **Registration Page**

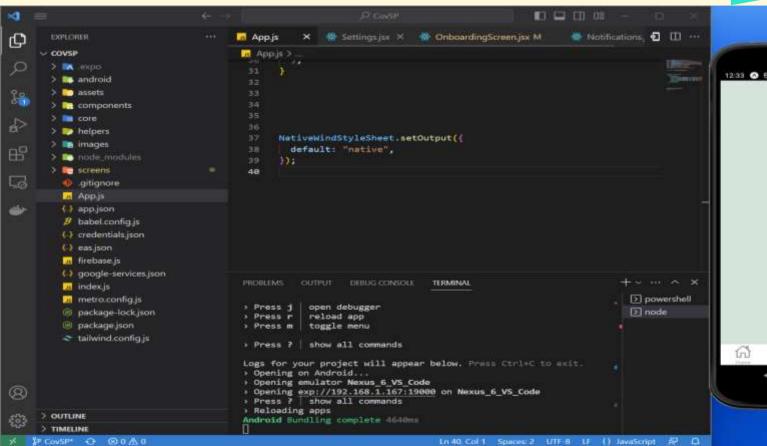


#### **Home Page After Login**



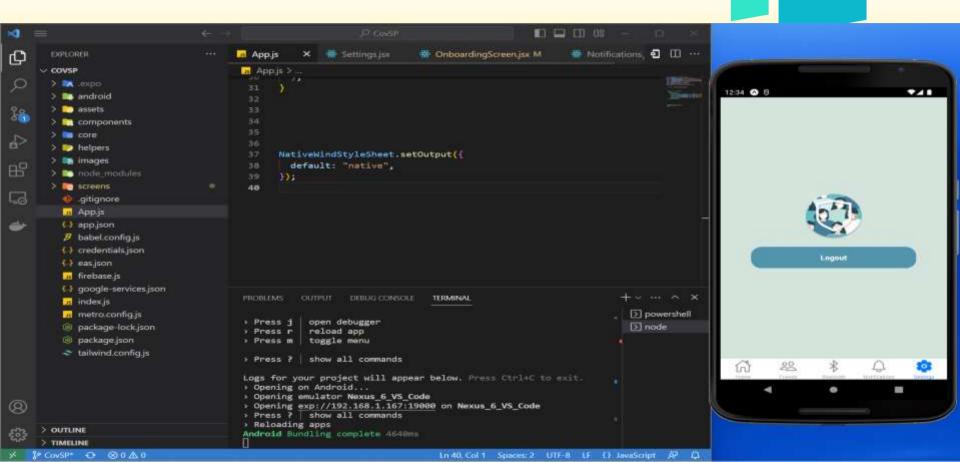


#### **Friends**

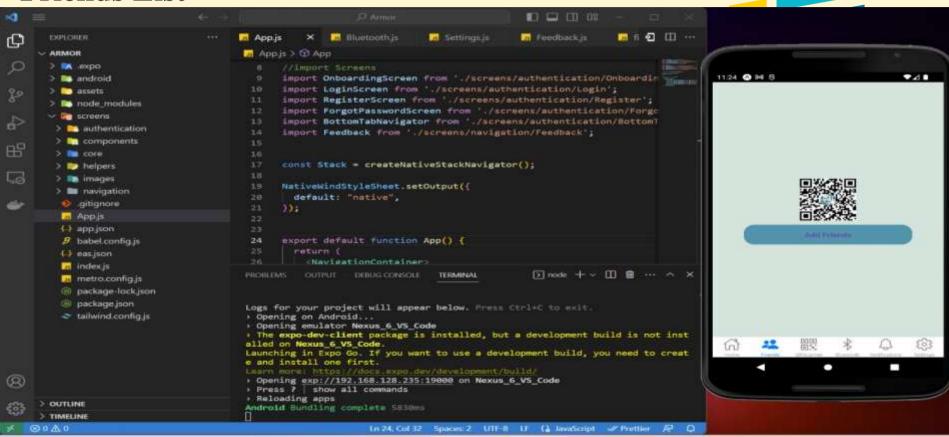




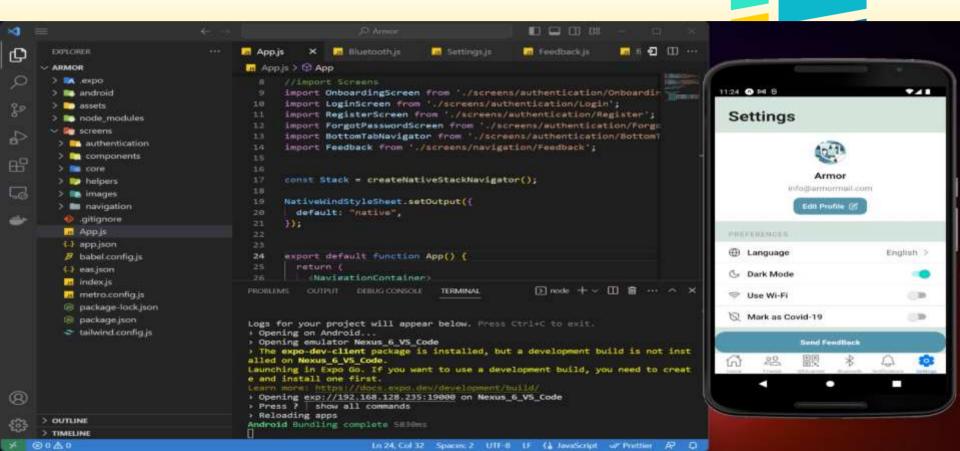
**Settings** 



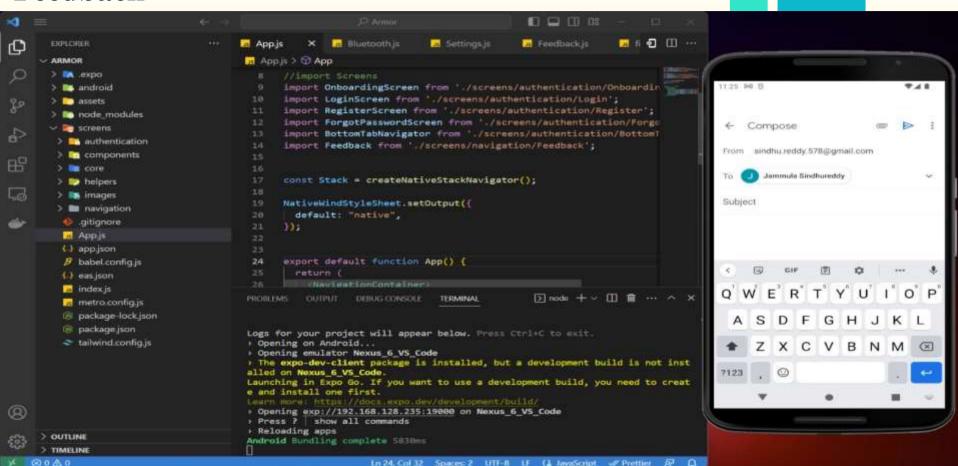
#### **Friends List**

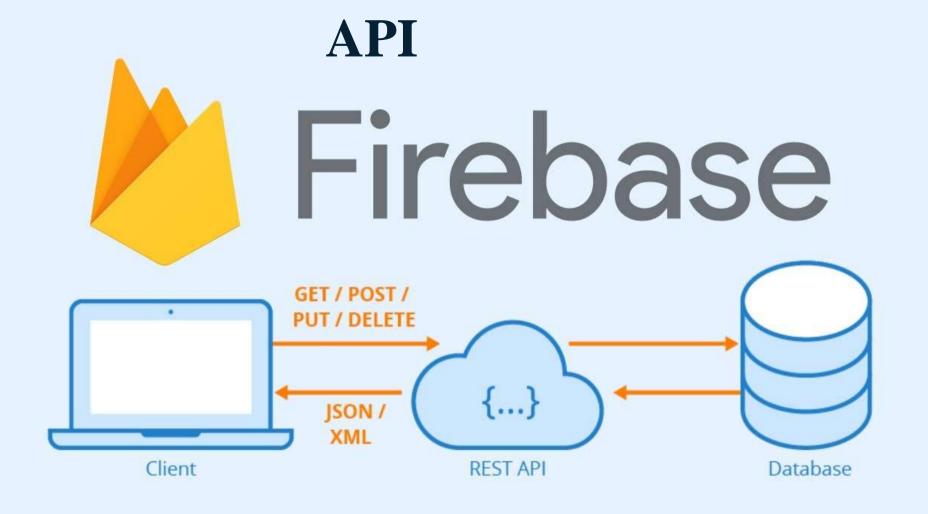


#### **Edit Profile**



#### **Feedback**





### **GITHUB LINK**





https://github.com/htmw/2023S-Team1

## PROJECT DEMO SPRINT 4

#### **Live Application Demo:**

