









# 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 FEEDBACK



- We have made improvements to sequence diagram.
- We have made changes in Acceptance Criteria, User Story and Test Cases tables as per the professor guidance.
- > We have updated the Metrics charts.
- We have provided the downloadable link for presentation videos in wiki-page.



## 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

Project Description			
<b>Project Name:</b>	Covid19 Safety Protocol Tracker		
Team Name:	Technocrats		
Project Description:	This is a tracking app that uses a smartphone's GPS and Bluetooth features to track COVID-19 infected cases  For Customers  who want to maintain the safe distance from covid-19 infected persons  The Covid-19 Safety protocol tracker is a mobile app  that checks for covid19 infected cases with in six feet distance  unlike knowing the information about covid19 spread through the news  our application helps in identifying the covid19 infected cases around the person by simply turning on the Bluetooth in their mobile through our application.		
Benefit Outcomes:	Users can use this application while travelling to scan their surroundings and get to know about the covid cases around them.  Users can use this application to know about the covid infected status of their closed ones.  Users can use this application in public areas like theaters and shopping malls to scan their surroundings and take necessary precautions.		
GitHub Link:	https://github.com/htmw/2023S-Team1/wiki		





#### 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.

#### **Deadlines:**

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

#### **Respect:**

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

#### Feedback:

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

#### **Roles and Responsibilities:**

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

#### **Confidentiality:**

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

#### **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.

#### **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.



**Team Members:** 

Sai Sindhu Jammula

**Anil Babu Tota** 

Bharadwaja Vemulapally

**Nikhil Reddy Thamma** 

Sahith Chowdary

# **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

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.

## MINIMAL VIABLE PRODUCT (MVP)





# MINIMAL VIABLE PRODUCT (MVP)



## **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.

# MINIMAL VIABLE PRODUCT (MVP)



#### 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**









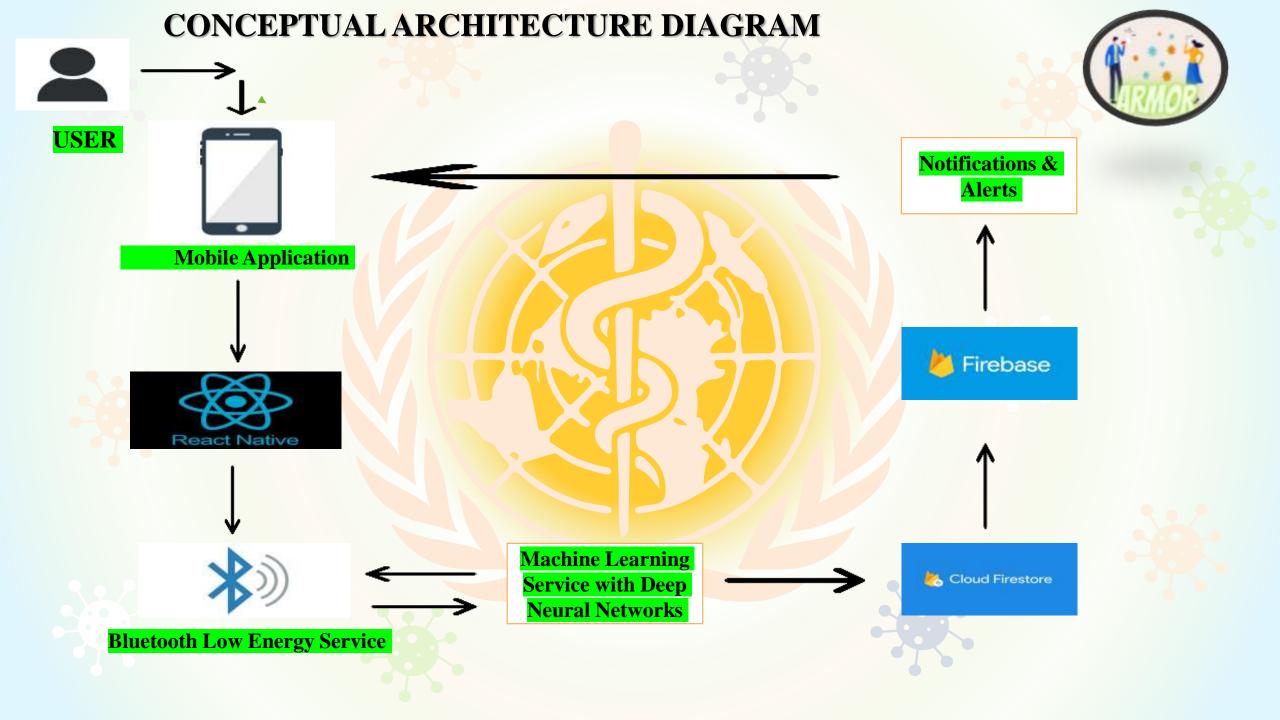


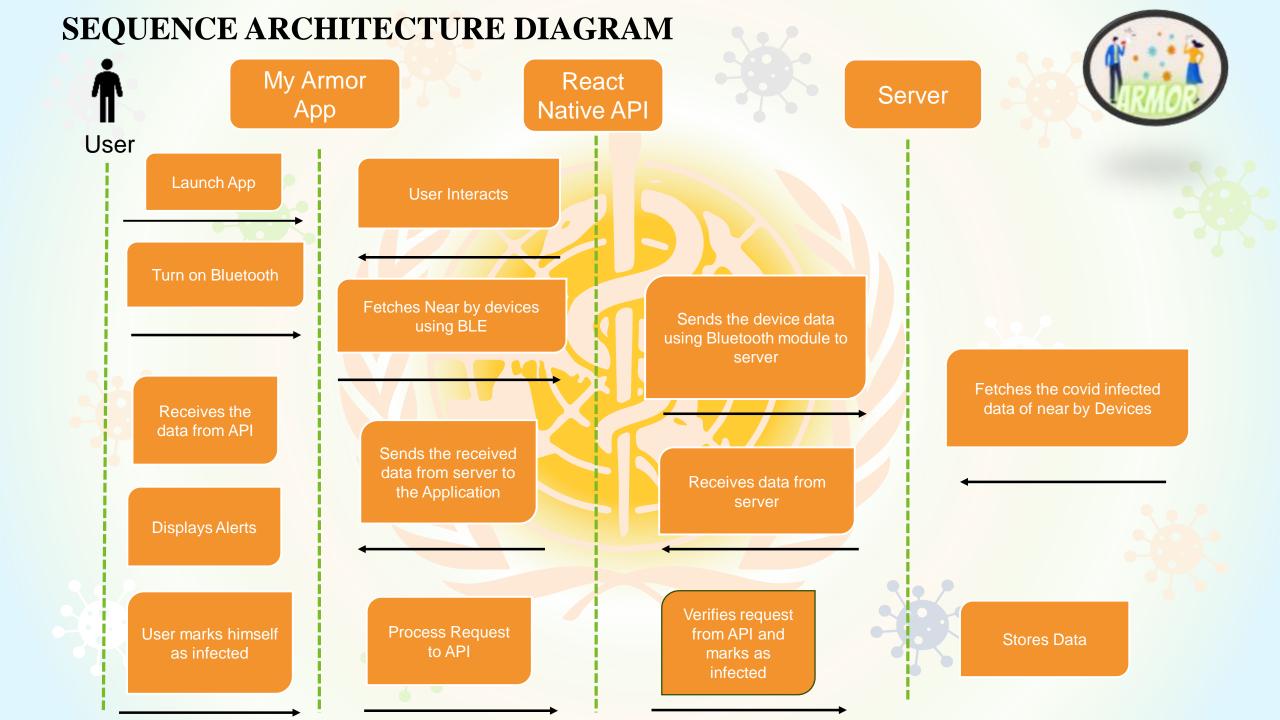


### ARCHITECTURE DIAGRAM









### **SPRINT 5 RECAP**



User ID	User Story	<b>Story Points</b>	Status
Cov-24	As a registered user I want to see the play button in the Bluetooth screen page so that I can start searching for infected users near my location.	13	Done
Cov-25	As a registered user I want to see the pause button in the Bluetooth screen page so that I can stop searching for infected users in the application.	13	Done
Cov-36	As a registered user I want to have a option to integrate app with Gmail so that I can use the Gmail to login to the application.	5	Done
Cov-37	As a registered user I want to have a functionality to enable alerts so that I can turn it on whenever needed.	3	Done
Cov-38	As a registered user I want to have a functionality to make device not visible to other devices so that I can hide the device from scanning by other devices.	5	Done







User ID	User Story	<b>Story Points</b>	Status
Cov-1	To gather all the requirements for the project.	8	Done
Cov-2	As a team we should have team work agreement with all rules and regulations.	3	Done
Cov-3	As a team we should divide roles and responsibilities among ourselves to develop the project.	5	Done
Cov-4	As a team we should develop required technical and functional knowledge required to complete the project.	6	Done
Cov-5	As a team we should plan the product requirements and development plan for the project.	8	Done
Cov-6	As a user I should have a Apk file which can be installed in mobile with basic functionalities.	6	Done
Cov-7	As a user I should be able to see the welcome page for Application.	4	Done
Cov-8	As a user I should be able to see the Knowledge page after welcome page, which has information of how application works.	4	Done
Cov-9	As a user I should be able to give all the required permissions to application to access the required data in mobile.	3	Done
Cov-10	As a user I should be able to reset the permissions for application anytime.	3	Done



User ID	<b>User Story</b>	<b>Story Points</b>	Status
Cov-11	As a user I should be able to see the Registration page for the application.	5	Done
Cov-12	As a user I should be able to the user name and get registered in the application.	8	Done
Cov-13	As a user I should be able to get pop up notification to turn on Bluetooth if application is being used.	3	Done
Cov-14	As a user I should be able to get pop up notification, asking required permissions for the application	3	Done
Cov-15	As a registered user I should be able to see the home page, once I login in to the application.	5	Done
Cov-16	As a registered user I want to logout from the application so that I can log in again whenever I want.	3	Done
Cov-17	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.	5	Done
Cov-18	As a user, I want to login using my email id as my user id so that I can access my account	5	Done
Cov-19	As a user, I want to navigate between pages so that I can quickly access the features I need	3	Done
Cov-20	As a user, I want to access the feature in home page	3	Done



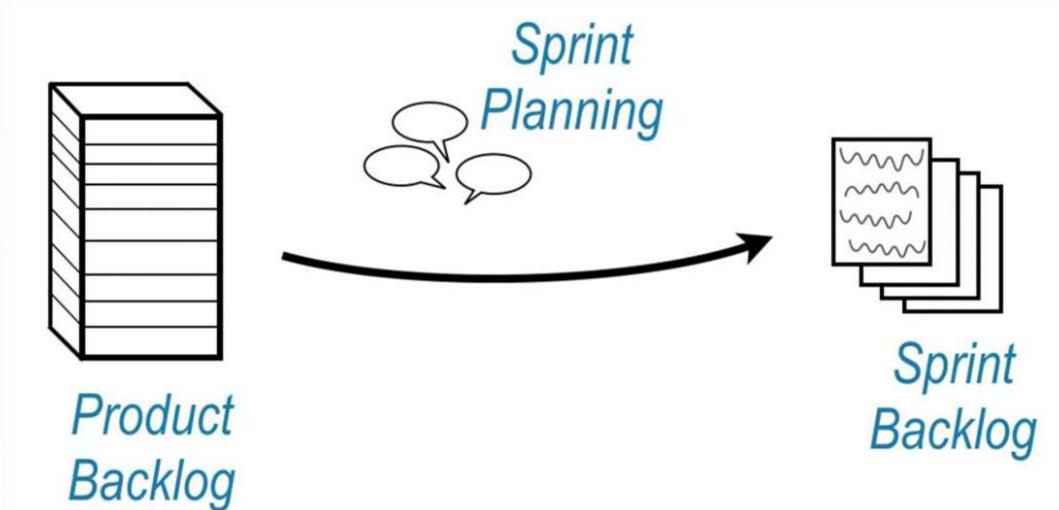
<b>User ID</b>	User Story	<b>Story Points</b>	Status
Cov-21	As a registered user I want to see the option for changing the user's name in settings page so that I can change the user's name.	3	Done
Cov-22	As a registered user I should be able to add my friends through QR code.	13	Done
Cov-23	As a registered user I want to have a functionality to send feedback about the application so that application management will get feedback from users.	8	Done
Cov-24	As a registered user I want to see the play button in the Bluetooth screen page so that I can start searching for infected users near my location.	13	Done
Cov-25	As a registered user I want to see the pause button in the Bluetooth screen page so that I can stop searching for infected users in the application.	13	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.	3	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.	8	Done
Cov-28	As a registered user I want to see the option for deleting my account in settings page so that I can delete my account.	3	Done
Cov-29	As a registered user I should be able to white list my trusted friends.	5	Done
Cov-30	As a registered user I should be able to remove the friends from white list.	5	Done



User ID	User Story	<b>Story Points</b>	Status
	As a registered user I want to have a option to integrate app with Gmail so that I can use the Gmail to login to the	5	Done
Cov-36	application.		
	As a registered user I want to have a functionality to enable	3	Ъ
Cov-37	alerts so that I can turn it on whenever needed.		Done
	As a registered user I want to have a functionality to make	5	
	device not visible to other devices so that I can hide the		Done
	device from scanning by other devices.		
Cov-38			

#### **SPRINT 6 BACKLOG**





## SPRINT 6 BACKLOG



User ID	User Story	<b>Story Points</b>	Status
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.	3	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.	8	Done
Cov-28	As a registered user I want to see the option for deleting my account in settings page so that I can delete my account.	3	Done
Cov-29	As a registered user I should be able to white list my trusted friends.	5	Done
Cov-30	As a registered user I should be able to remove the friends from white list.	5	Done

# ACCEPTANCE CRITERIA TABLE

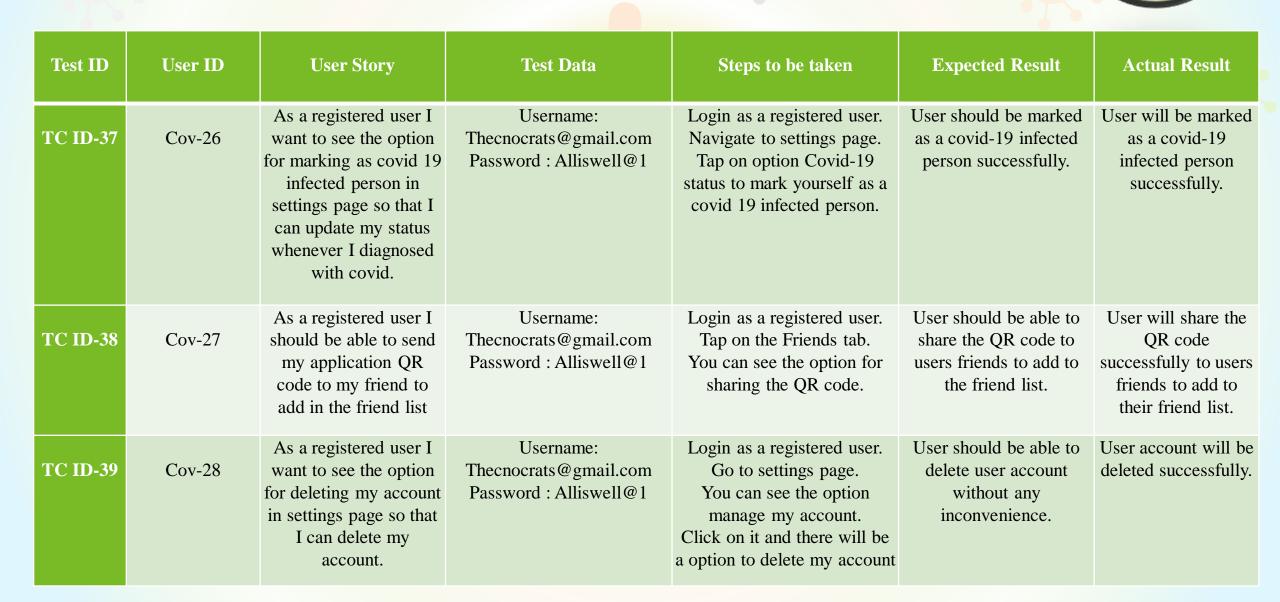


User ID	User Story	Acceptance Criteria	Place
Cov - 26	As a registered user I want to see the option for marking as covid 19 infected person in settings page so that I can update my status whenever I diagnosed with covid.	User should be able to see a option labeled Covid – 19 status.  User should be able to click on the option labeled Covid – 19 status.  User should be able to mark himself/herself as a Covid – 19 infected person.	Settings page
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.	User should have a clear option labeled Add friends in users Friends tab.  User should see a option for sharing my QR code to users friends in the Add friends section.  User should be able to click on the add option so that they can add user to their friend list.	Friends tab
Cov - 28	As a registered user I want to see the option for deleting my account in settings page so that I can delete my account.	User should be able to see the option for deleting User account in the settings page.  User should have a clear option labeled manage my account.  User should be able to click on the option labeled delete account.	Settings page

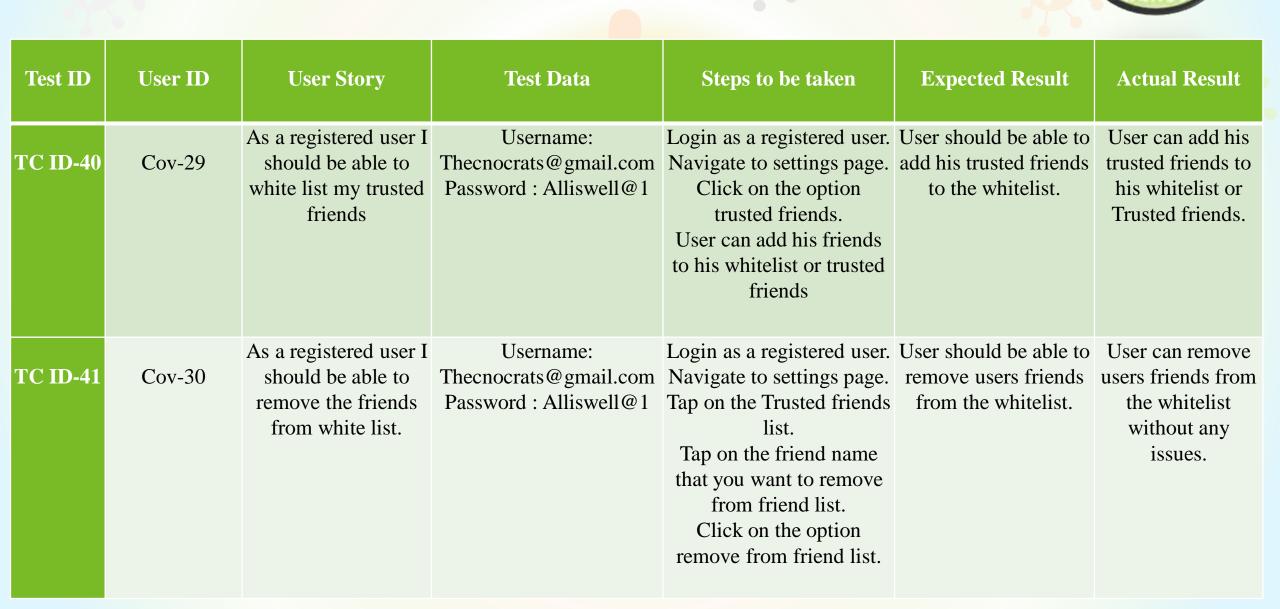
# ACCEPTANCE CRITERIA TABLE

User ID	User Story	Acceptance Criteria	Place
Cov-29	As a registered user I should be able to white list my trusted friends.	User should see a clear option labeled Trusted friends in the settings page.  User should be able to add friends to the list by entering their usernames.	
Cov-30	As a registered user I should be able to remove the friends from white list.	User should have clear option Labeled Trusted friends in the settings page.  User should be able to remove users' friends when user click on their name.  User should see the option Remove from the list.  User should be able to click on the option Remove in the friends list.  User should be able to remove users friends from the whitelist or Trusted friends list.	Settings page

#### **TEST CASES**



#### **TEST CASES**



# **Stories Completed in Sprint 6**



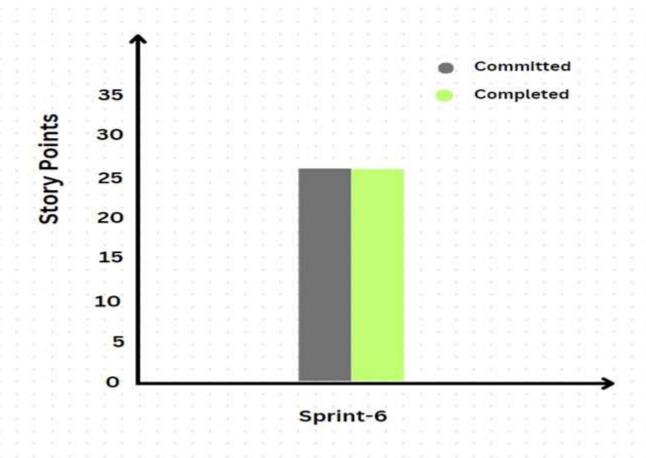
User ID	User Story	<b>Story Points</b>	Status
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Cov-27	As a registered user I should be able to send my application QR code to my friend to add in the friend list.	8	Done
Cov-28	As a registered user I want to see the option for deleting my account in settings page so that I can delete my account.	3	Done
Cov-29	As a registered user I should be able to white list my trusted friends.	5	Done
Cov-30	As a registered user I should be able to remove the friends from white list.	5	Done



# **METRICS**

# TEAM MEMBERS VELOCITY REPORT

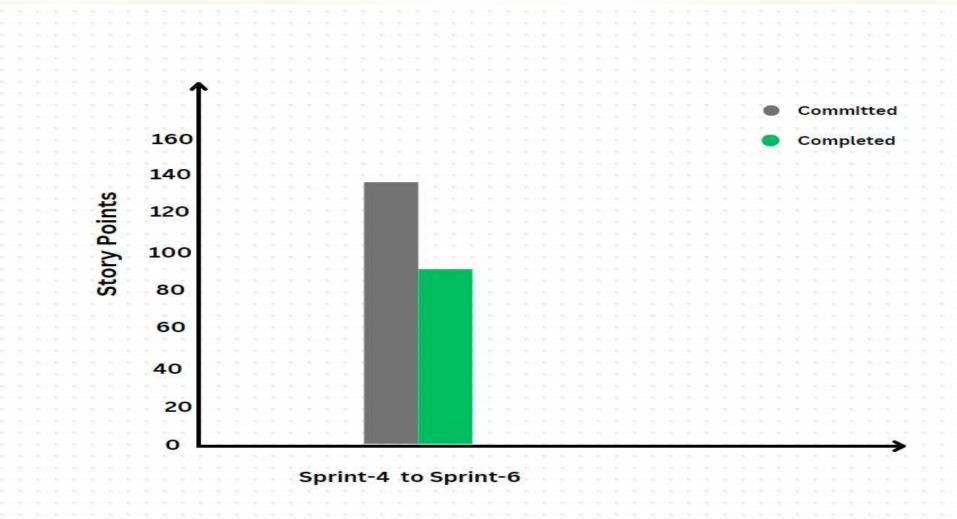




#### **METRICS**







# METRICS SPRINT BURNDOWN CHART



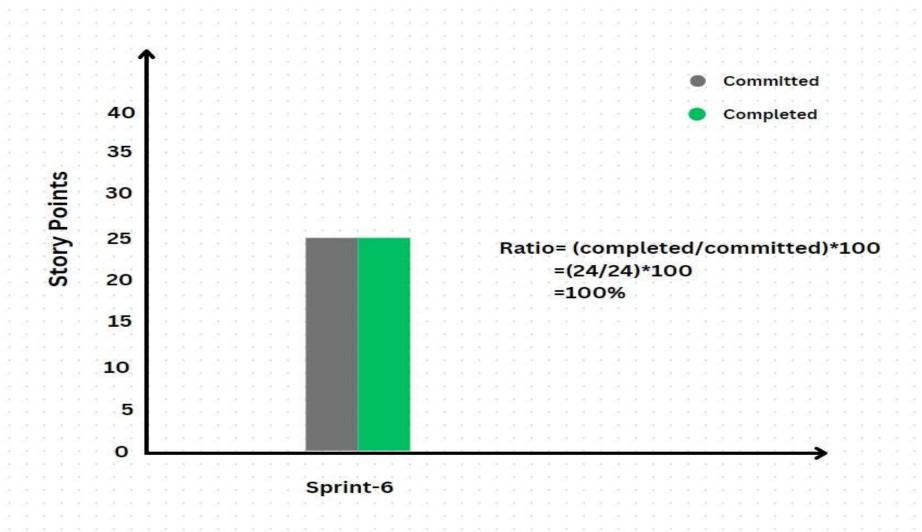
## **Sprint-6 Burndown Chart**



## **Completed vs Committed ratio**







#### RETROSPECTIVE



#### What went well?

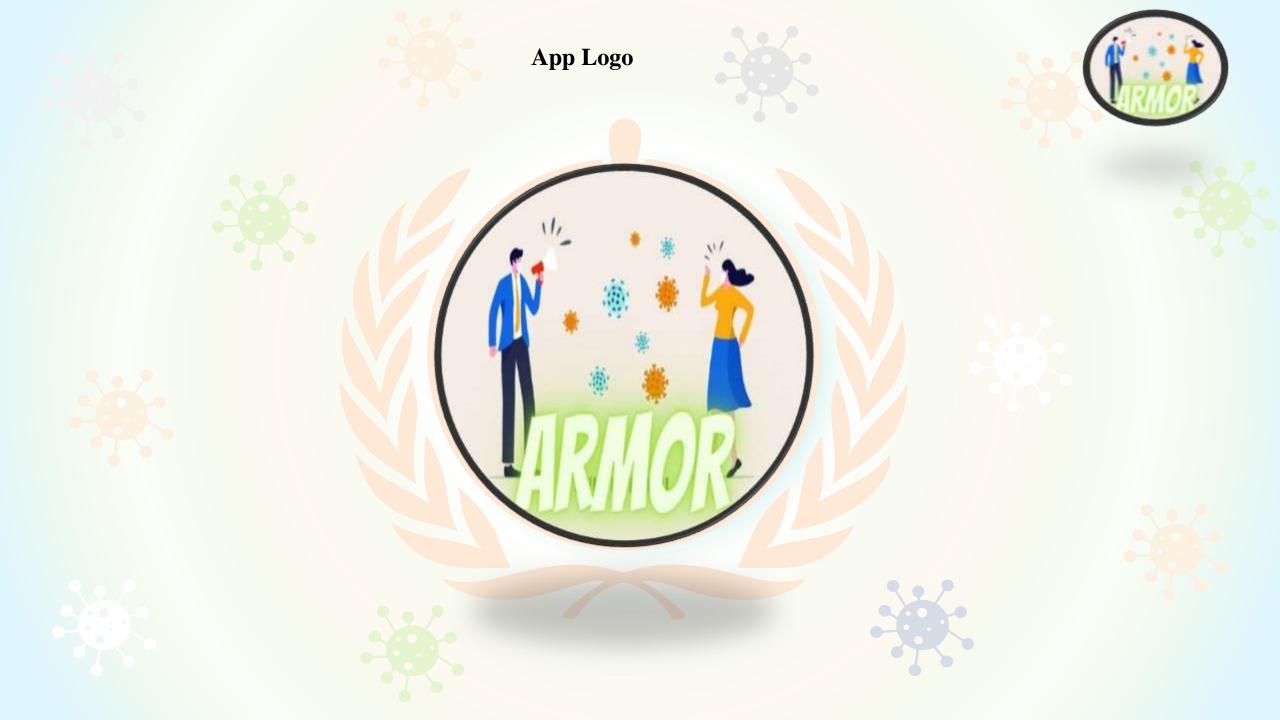
Team members completed their task on time and meet their deadlines with out any delay.

## What needs improvement?

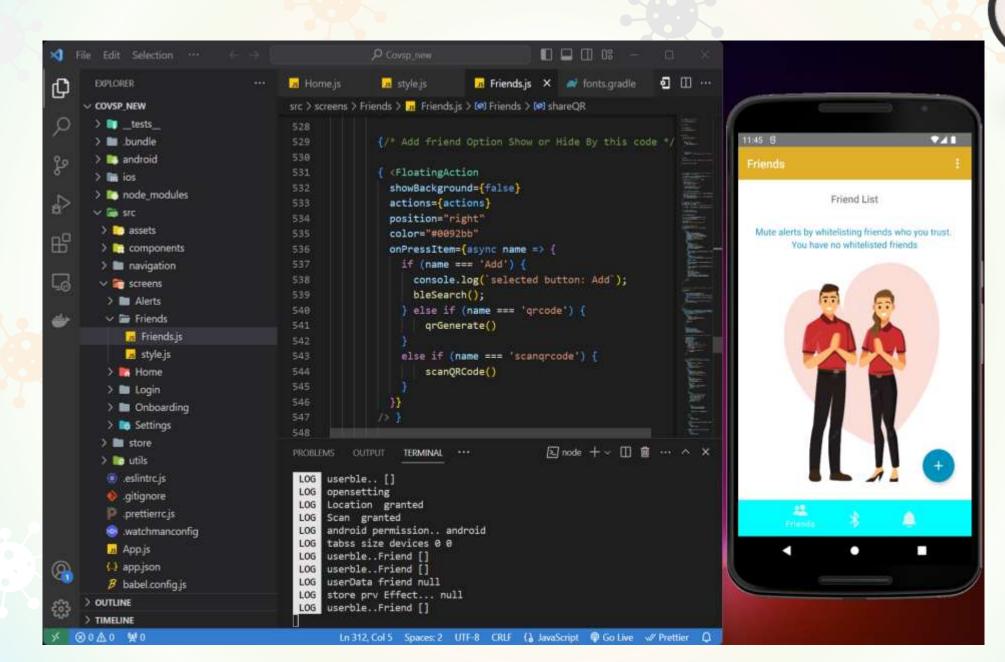
Sprint planning and distribution of tasks among team members could be more organized and planned early.

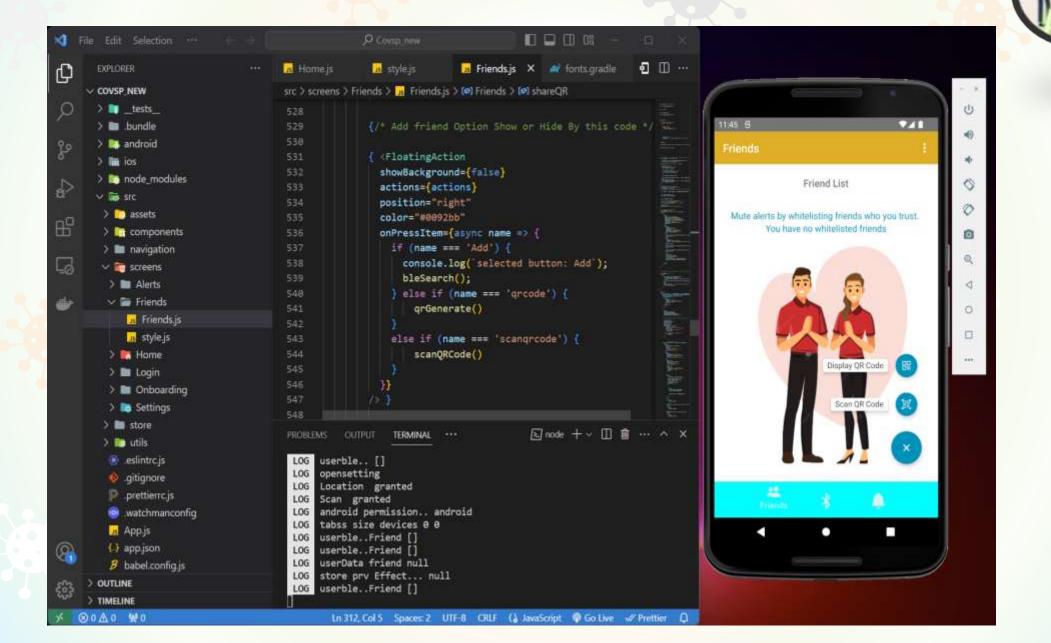
### Next steps:

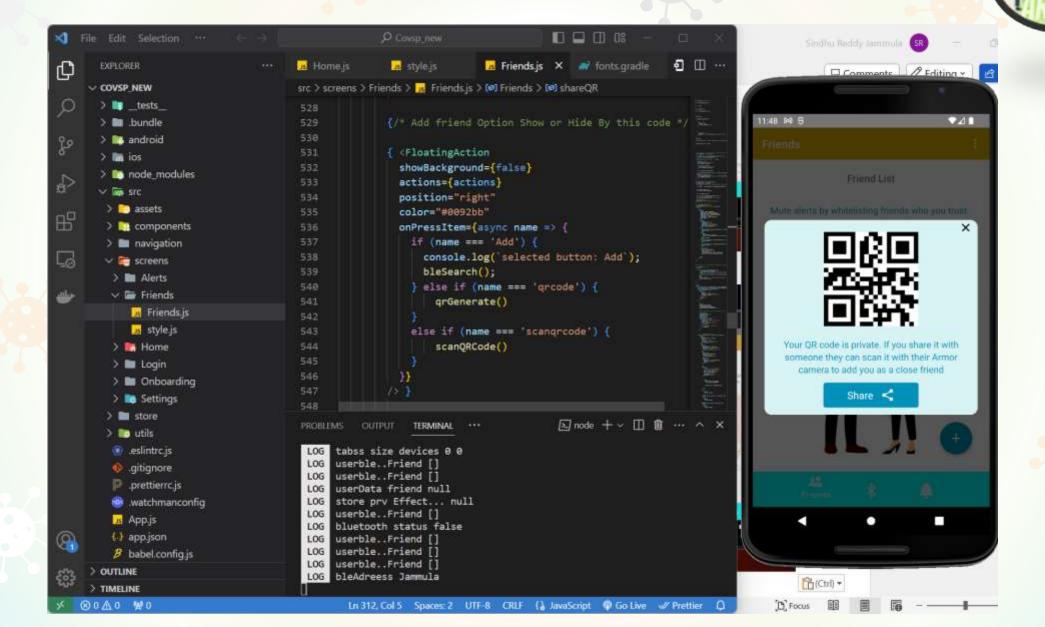
We are going to have sprint planning meeting earlier for next sprint and organize the tasks in a more proper way.

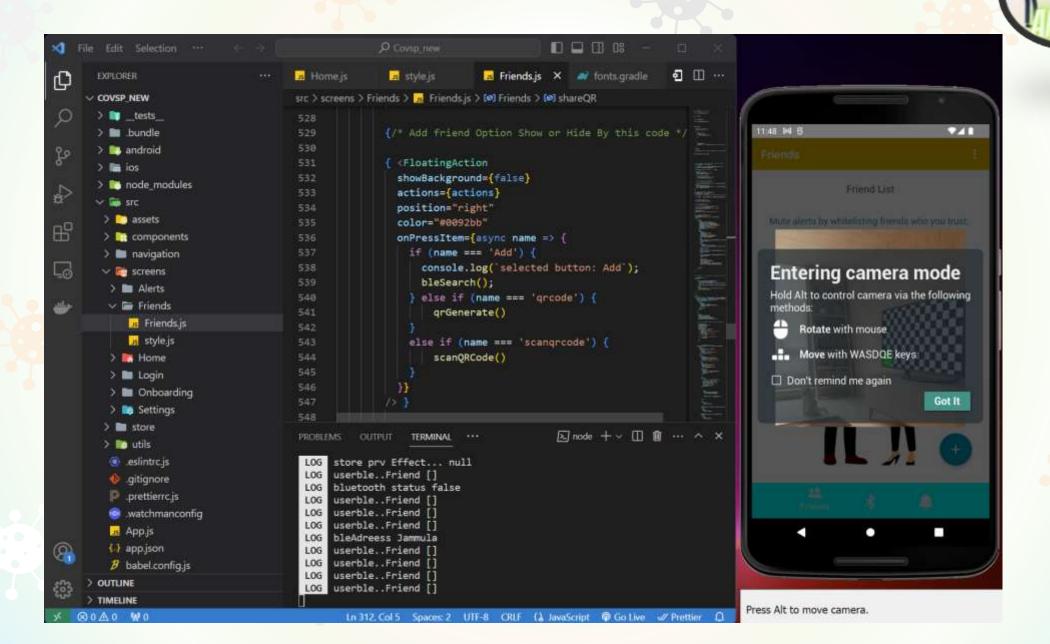












**APK** 









## **GITHUB LINK**





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



