





Computer Science Project I CS 691

Team Name: Technocrats

Team 1

Professor: Henry Wong



AGENDA





Measuring our progress toward our deadlines, coordinating our activities, addressing any difficulties, and resolving on the next steps as they apply to improvement are the highest priorities of this session.

Trying to keep track on significant dates. Add activities to a group calendar. Mention regarding timely submission.

Analyse and research all the components that our project would require from the client's point of view.

For something like the project to be effective, it needs to have interaction, attendance, cooperation, teamwork, as well as attention from each team member.

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





The professor provided input after the delivery of Deliverable 1, recommending us to put a statement above each bullet point we include on a presentation slide. Canva can be used to edit videos instead of Wonder share. While being recorded, we can take advantage of PowerPoint's presentation slideshow feature and missing the project schedule The following slides highlight the changes we made to our sprint plan by taking professor feedback into consideration.

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, nowadays 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.







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 perusing 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.

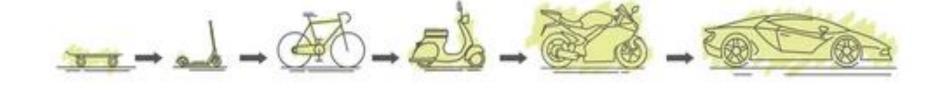
Goals

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.

MINIMAL VIABLE PRODUCT (MVP)







MINIMAL VIABLE PRODUCT (MVP)



The Following are the Features we are covering in our MVP

- Login Page
- **Registration Page**
- **➤** Home Page
- > Play and Pause buttons to start the Scanning of surrounding areas
- > Alerts to the users
- **➤** Users previous Covid19 history

TECHNOLOGIES













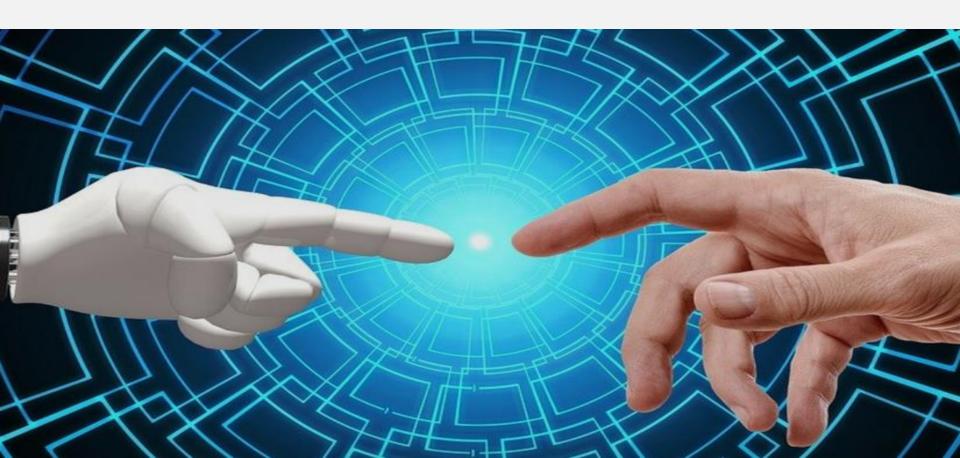






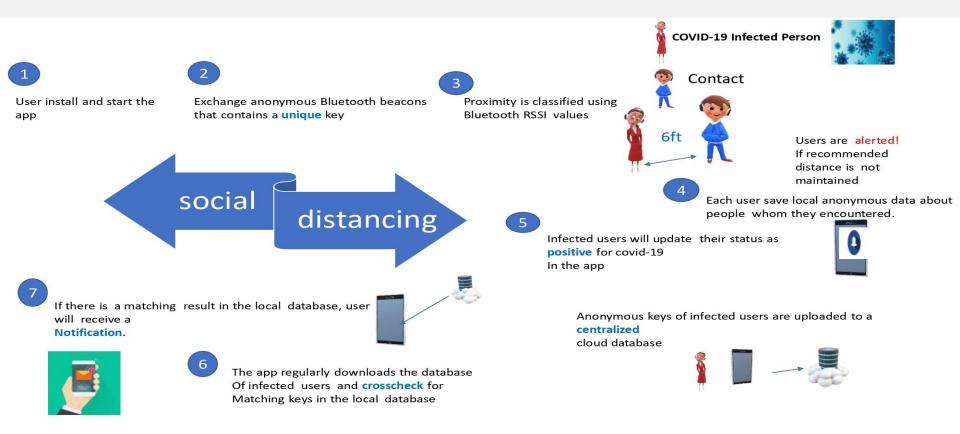
ARCHITECTURE DIAGRAM





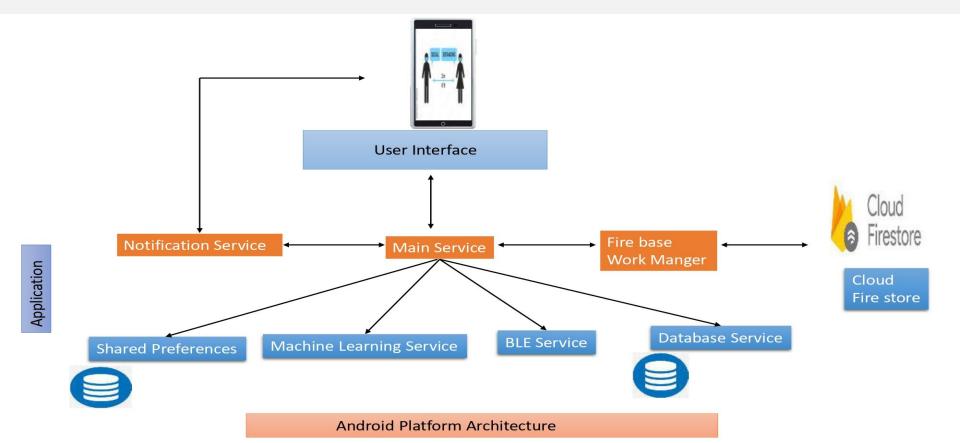
CONCEPTUAL ARCHITECTURE DIAGRAM





SEQUENCE ARCHITECTURE DIAGRAM





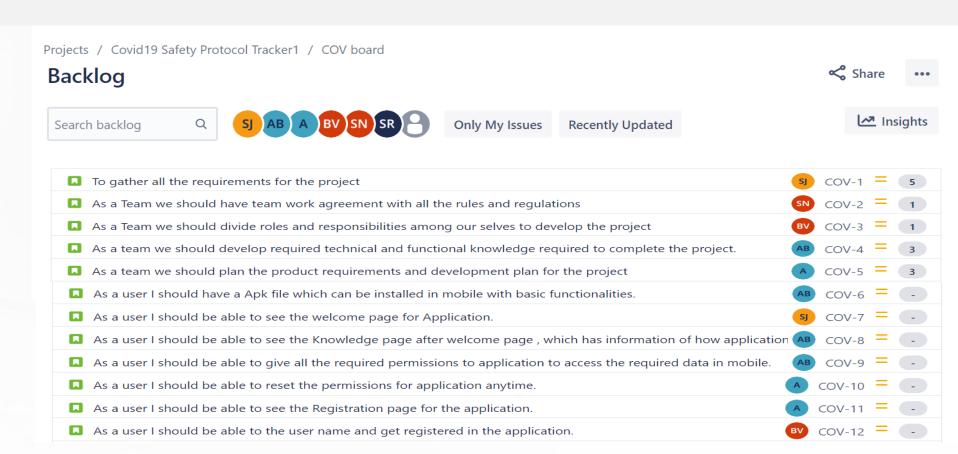
PRODUCT BACKLOG





PRODUCT BACKLOG





PRODUCT BACKLOG



| Backlog | ≪ Share ••• |
|---|--------------------|
| Search backlog Q SJ AB A BV SN SR Only My Issues Recently Updated | Insights |
| As a user I should be able to get pop up notification to turn on bluetooth if application is being used. | SN COV-13 = . |
| As a user I should be able to get pop up notification, asking required permissions for the application. | SN COV-14 = |
| As a registered user I should be able to see the home page, once I login in to the application. | SR COV-15 = - |
| As a registered user I should be able to see the play the button in the home page. | COV-16 = |
| As a registered user I should be able to see the pause button in the home page. | COV-17 = |
| As a registered user I should be able to start the play button and search for infected person in the bluetooth range. | COV-18 = |
| | COV-19 = |

And continue button to proceed further.



Knowledge Page

| | | Acceptance Criteria | |
|--|--|---|--|
| Issue Type | ID | Summary | Place |
| | | As a user | |
| | | I should have a Apk file with basic functionalities | |
| | | So that I cam install in mobile. | Mobile |
| Acceptance criteria | COV-6 | | |
| | | "Given I'm a user of the application | |
| | | When I try to install the application using APK file | AUST INVANCE |
| | | Then I should be able to install the application with out any errors. | Mobile |
| Accentance criteria | | As a user | |
| | | I should be able to see the welcome page | |
| | | So that I can see message in the welcome page and show the continue button. | Welcome Page |
| | COV-7 | Scenario: User opens application after installation | |
| | 550. | "Given I'm a user of the application | |
| | | When I try to open the application after the installation | |
| | | Then I should be able to see the message in the welcome page | COSS TAD |
| | | And continue button to proceed further. | Welcome Page |
| | | As a user | |
| Acceptance criteria COV-7 Acceptance criteria COV-8 | | I should be able to see the Knowledge page after welcome page | |
| | | So that I can see information of the application and see the continue button. | Knowledge Page |
| | COVIO | Scenario: User opens application after installation | |
| | COV-8 | "Given I'm a user of the application | |
| | | When I click on the continue button in welcome page | |
| | Then I should be able to see the Knowledge page after welcome page | | |
| | 1 | 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | TOTAL TOTAL STATE OF THE PERSON OF THE PERSO |

ACCEPTANCE CRITERIA & LICER STORIES



| ACCEI IAI | ICE (| CRITERIA & USER STORIES | UNIVERSI |
|---------------------|-------|--|-----------|
| | | As a user I should be able to give all the required permissions So that application can access the required data in mobile. | Home Page |
| Acceptance criteria | COV-9 | Scenario: User opens application after installation "Given I'm a user of the application When I click on the continue button in knowledge page Then I should be able to see the pop up meesage for asking permissions And user can allow/deny the permissions. | Home Page |
| | | As a user | 1000 |

Acceptance criteria

Acceptance criteria

COV-10

COV-11

I should be able to reset the permissions for application anytime So that application can not access the user data. Scenario: User opens application after installation

"Given I'm a user of the application When I try to modify the seetings of the application Then I should be able to reset the permissions of the application And user can adeny the permissions.

As a user

So that I can register in the application.

"Given I'm a user of the application

And user can enter their details.

When I click on the continue button in knowledge page Then I should be able to see the registration page

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

Scenario: User opens application after installation

Home Page Knowledge Page

Knowledge Page

Home Page



Home Page

Home Page

Home Page

| ACCEPTAN | NCE | CRITERIA & USER STORIES | |
|---------------------|--------|--|-------------------|
| | , 02 | and the contract of the contra | IVERSITY |
| Acceptance criteria | COV-12 | As a user I should be able to enter the user name and get registered in the application. So that I can register in the application. Scenario: User opens application after installation "Given I'm a user of the application | Registration Page |
| | | When I enter username in registration page Then I should be able to click on the register button And get registered in the application. | Registration Page |
| | | As a user I should be able to get pop up notification to turn on bluetooth if application is being used. So that I can turn on the bluetooth for identifying location. | Home Page |
| Acceptance criteria | COV-13 | Scenario: User opens application after installation "Given I'm a user of the application When I start the play button in the application Then I should be able to see the pop up notification And has the message to turn on the bluetooth in the pop up message | Home Page |
| Acceptance criteria | COV-14 | As a user I should be able to get pop up notification, asking required permissions for the application. So that I can give all the required permissions. Scenario: User opens application after installation "Given I'm a user of the application | Home Page |
| Acceptance criteria | COV-14 | As a user I should be able to get pop up notification, asking required permissions for the application. So that I can give all the required permissions. | |

Acceptance criteria

"Given I'm a user of the application

Then I should be able to see the home page

And features of the application.

As a user

COV-15

When I complete the registration in the application

I should be able to see the home page, once I login in to the application. So that I can see the features of the application. Scenario: User opens application after installation

Then I should be able to see the pop up notification asking for required permissions.

When I complete the registration and gave all the required permissions

TEST CASES



| restrib user story | TEST COSES | ALLUGI NES | uit Experteu nesuit | rass/ran |
|---|---|------------|--|----------|
| 1 As a user I should have a Apk file which can be installed in mobile with basic functionalities. | 1. When the user attempts to install the application on a mobile device then the application should install correctly and dis | Same | Application will be installed and displays basic functionalities | Pass |
| 2 | then the application should be compatible with the device's operating system and the installation should not be blocked due to incompatibility. | Same | The application should be successfully installed on the device. | Pass |
| 3 As a user I should be able to see the welcome page for Application. | 1. When the user is on the welcome page then the user should see a welcome message, a login button, and a register button | Same | The user should see a welcome message, a login button, and a reg | ist Pass |
| 4 | When the user attempts to login then the user should be directed to the login page. | Same | The user should be directed to the login page. | Pass |
| | | | | |

| 3 As a user I should be able to see the welcome page for Application. | 1. When the user is on the welcome page then the user should see a welcome message, a login button, and a | register buttor San |
|--|--|---------------------|
| 4 | When the user attempts to login then the user should be directed to the login page. | San |
| | | |
| 5 As a user I should be able to see the Knowledge page after welcome page, which has information | on of how 1. When user clicks on the Knowledge page then the Knowledge page should be displayed, with information abou | ut how the ap San |

User should be able to view the Knowledge page with information abou Pass User should be able to see the content of Knowledge page which inclu Pass 2. When user refreshes the page then user should be able to see the content of Knowledge page which includes information of Same 7 As a user I should be able to give all the required permissions to application to access the required data 1. When user opens the application then user should be able to see a list of permissions the application requires, and a buttl. Same User should be able to give the required permissions to the application Pass

2. When user clicks the permission button then user should be able to see a pop-up window with a list of permission options. Same User should be able to select the permission options and successfully Pass 9 As a user I should be able to reset the permissions for application anytime. 1. When the user selects the "Reset Permissions" option then all permissions for the application should be reset to the defau. Same Permissions are reset to the default settings Pass 10 2. When the user selects the "Reset Permissions" option then all user roles and profiles are removed All user roles and profiles are removed and the application is reset to it Pass

11 As a user I should be able to see the Registration page for the application. 1. When user clicks on the "Register" button then user should be directed to the Registration page. User should be on the Registration page Same Pass 12 2. When user clicks on the "Go Back" button then user should be directed to the homepage Same User should be on the homepage Pass

Pass

13 As a user I should be able to the user name and get registered in the application. 1. When the user clicks the submit button after entering a valid username then the user should be registered in the applicatic Same User should be successfully registered in the application 2. When the user clicks the submit button then the user should not be registered in the application User should receive an error message notifying them that the usernam Pass 14

15 As a user I should be able to get pop up notification to turn on bluetooth if application is being used. 1. When user opens application then a pop up notification appears asking user to turn on bluetooth Bluetooth is successfully enabled Pass Same 2. When user opens application after bluetooth is enabled then no pop up notification appears Application launches normally and bluetooth stays enabled 16 Same Investigating

1. When user clicks on the "Allow" button then a pop up notification should appear, asking permission for the application to ac Same The application should be granted access to the device location Pass

2. When user clicks on the "Deny" button then a pop up notification should appear, asking permission for the application to Same The application should not be granted access to the device camera Pass

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

18 19 As a registered user I should be able to see the home page, once I login in to the application. 1. When user enters their login credentials correctly then user should be taken to the home page User is successfully taken to the home page Same Pass 2. When User enters their login credentials incorrectly then user should be denied access to the home page User is denied access to the home page 20 Pass



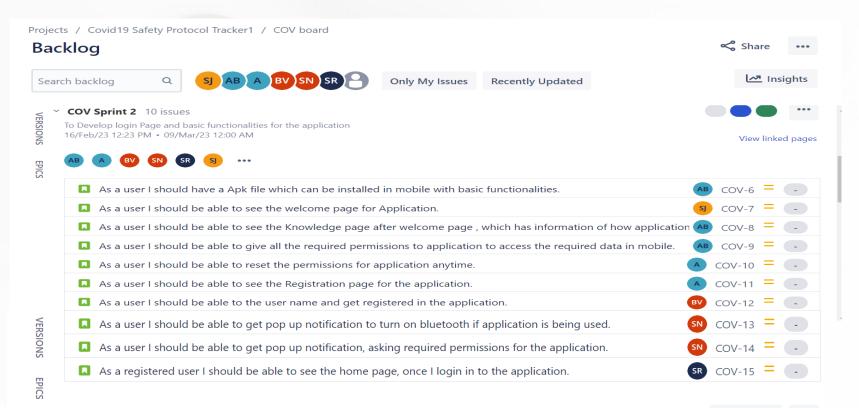


SPRINT BACKLOG

SPRINT BACKLOG



SPRINT 2



SPRINT BACKLOG

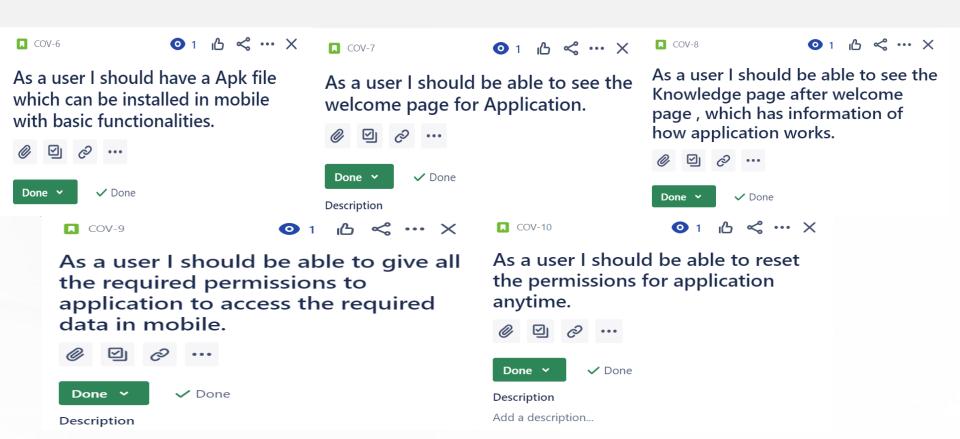


SPRINT 3

| COV Sprint 3 8 issues | | ••• |
|---|------------|--------|
| | View linke | d page |
| As a registered user I should be able to see the play the button in the home page. | COV-16 = | |
| As a registered user I should be able to see the pause button in the home page. | cov-17 = | • |
| As a registered user I should be able to start the play button and search for infected person in the bluetooth range. | COV-18 = | • |
| As a registered user I should be able to add my friends through QR code. | COV-19 = | • |
| As a registered user I should be able to send my application QR code to my friend to add in the friend list. | COV-20 = | |

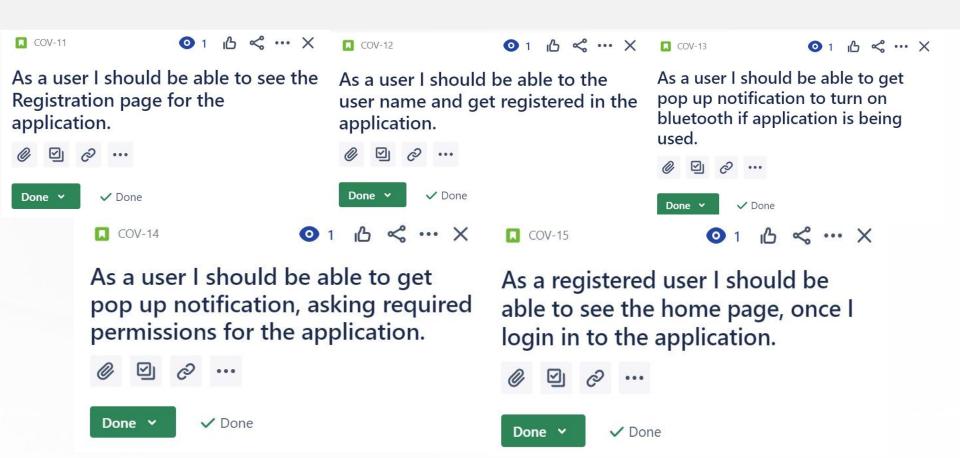
STROIES COMPLETED





STROIES COMPLETED





METRICS



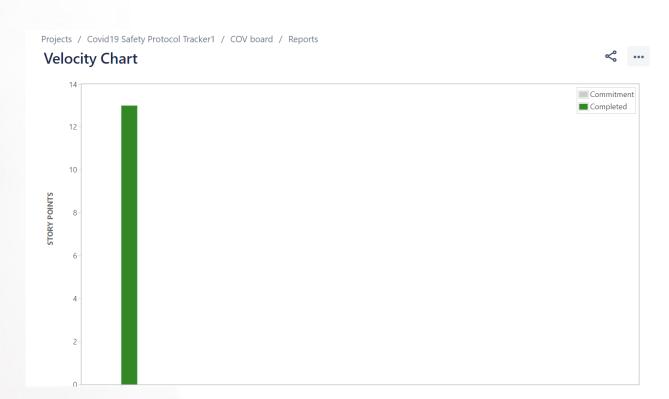




METRICS

PACE

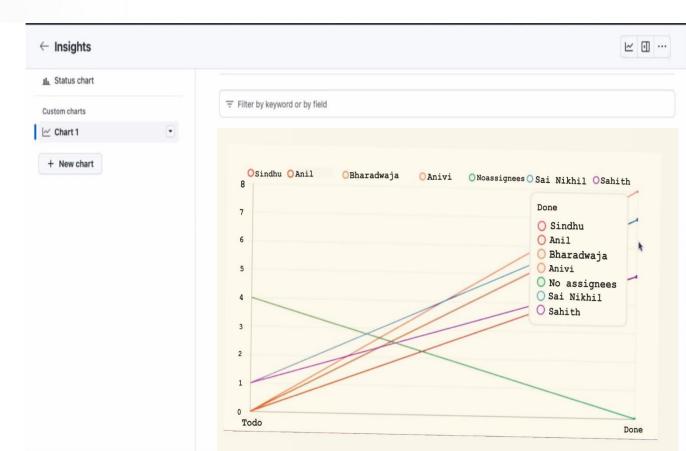
VELOCITY REPORT



TEAM MEMBERS VELOCITY REPORT





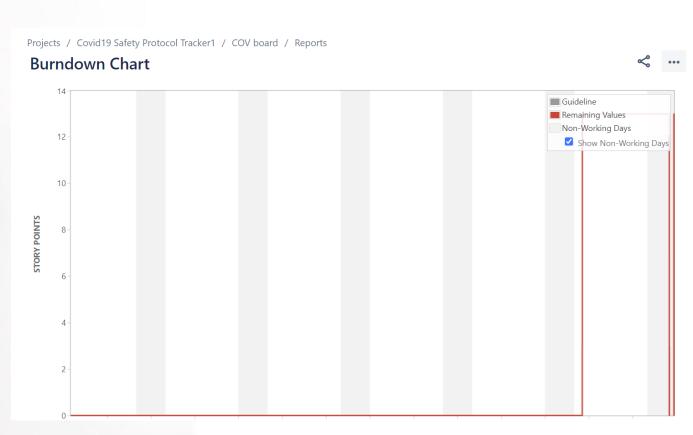


METRICS

SPRINT BURNDOWN CHART







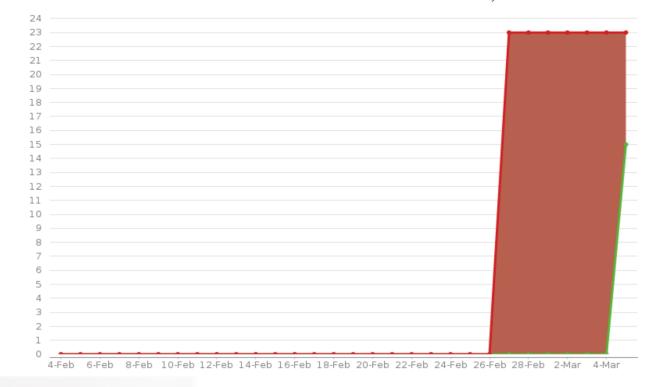
METRICS



COMPLELETED vs COMMITTED RATIO



This chart shows the number of issues **created** vs. the number of issues **resolved** in the last **30** days.



RETROSPECTIVE



What went well

As we are using Microsoft Teams for daily communication and for team meetings, Communication and updates between team members was in more organized way in this sprint.

What needs improvement

Team members should discuss if they have any doubts regarding their assigned user stories in team meetings, rather than asking the doubts on the day of submission.

Next Steps

In the next sprint we should make sure that work load is same for every team member, so that one should not be overwhelmed with their assigned work Page.

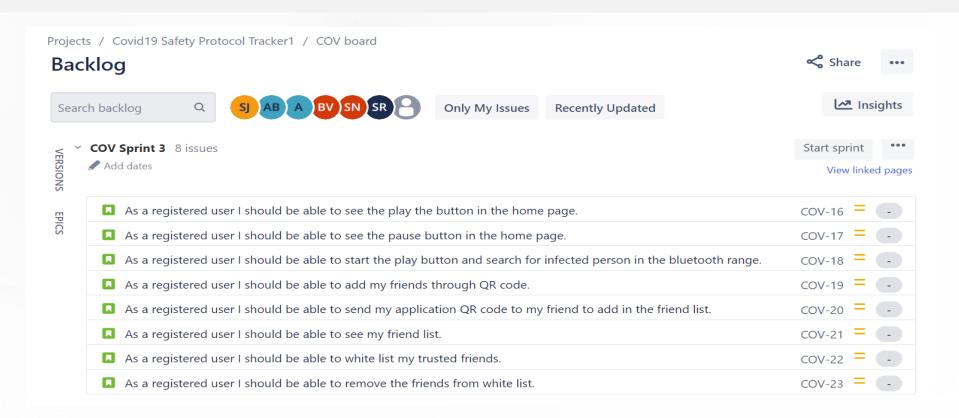
SPRINT 3





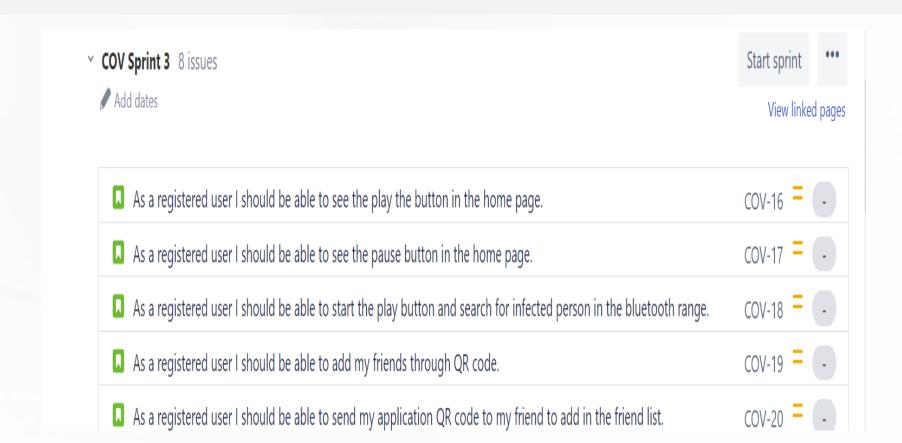
SPRINT 3





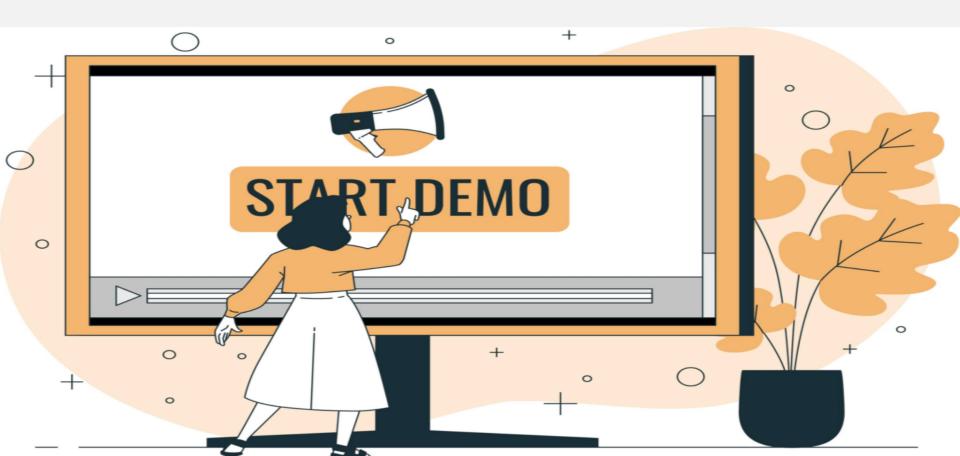
STRORIES PLANNED AND COMMITTED FOR SPRINT 3





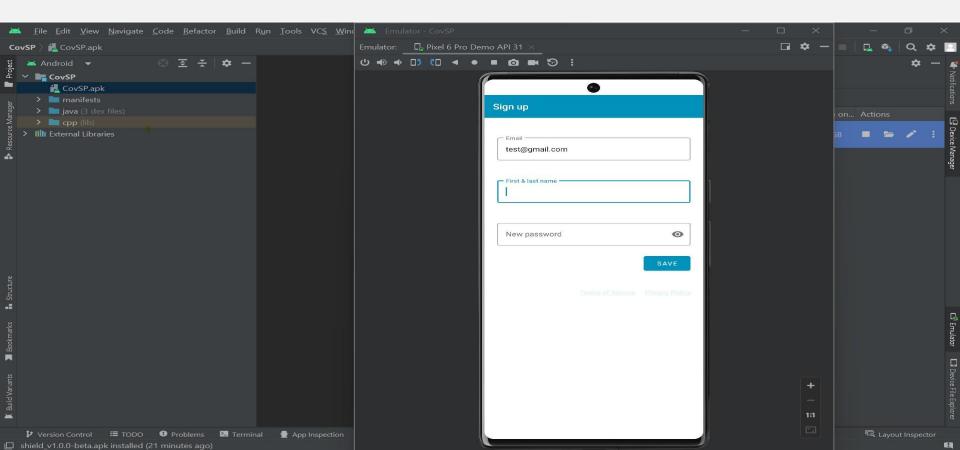
PROJECT DEMO SPRINT 2





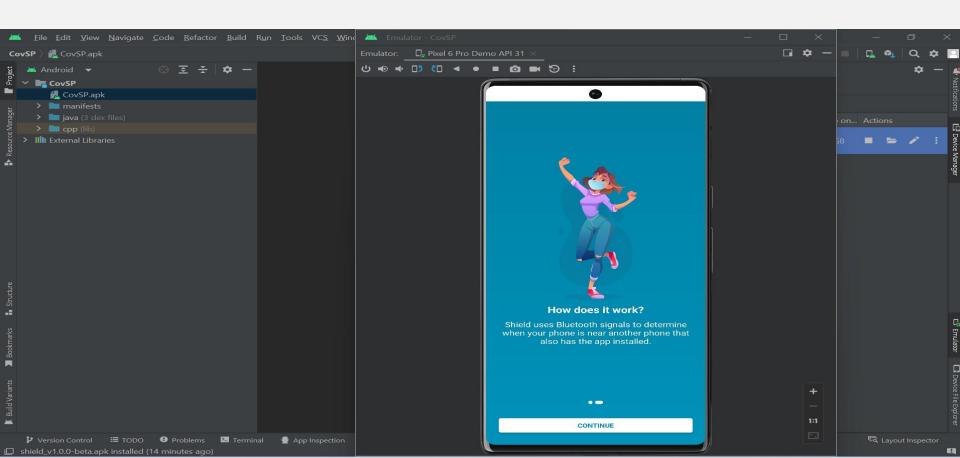
PROJECT DEMO – SPRINT 2





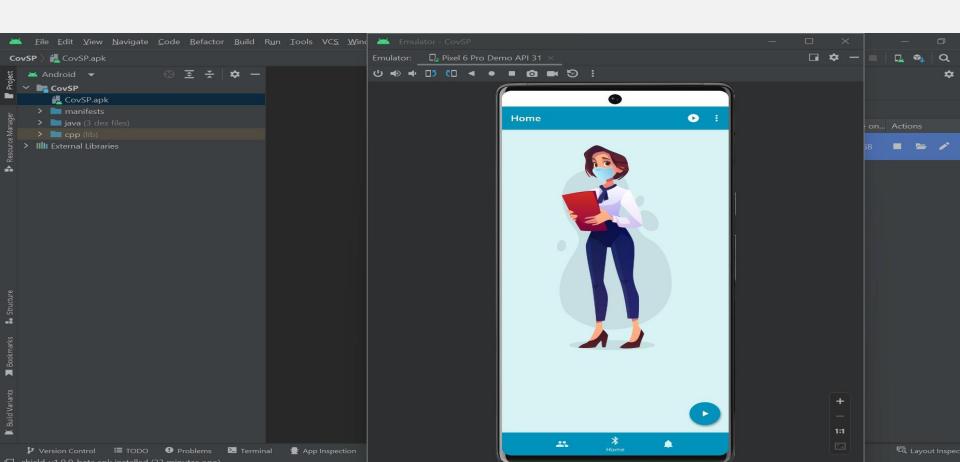
PROJECT DEMO – SPRINT 2





PROJECT DEMO – SPRINT 2







GITHUB LINK



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

LIVE APPLICATION DEMO



