

# CENG 322 Deliverable 3

Team Name: **Coding Comrades**

Project Name : **BusCare +**

Team members:

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# **Table Of Contents:**

<b>Project Description:</b>	<b>3</b>
<b>Note:</b>	<b>3</b>
<b>Contribution:</b>	<b>3</b>
<b>GitHub repo link and strategy:</b>	<b>4</b>
<b>Q13 Sprint Goals</b>	<b>4</b>
<b>Q14-20 Sprint 3 and 4</b>	<b>4</b>
Sprint 3	4
Sprint 4	6
<b>Q21-24 Gantt Chart</b>	<b>7</b>
<b>Q25 Daily Stand-ups Outcomes</b>	<b>8</b>
<b>Q26 Daily Standups</b>	<b>11</b>
<b>Q27 Sprint Retrospective</b>	<b>14</b>
<b>Q28. C4 Model</b>	<b>15</b>
Context Diagram:	15
Container Diagram:	16
Component Diagram:	16
Code Diagram:	17
	<b>18</b>
<b>Q29 Design Principles</b>	<b>18</b>
> Don't Repeat Yourself Principle used in HelpActivity.java	18
> Single Responsibility Principle used in ReviewActivity.java	19
<b>Q30 Design Pattern</b>	<b>20</b>
> Build (Creational pattern) used in MainActivity.java :	20
> Command Pattern used in MainActivity.java	21
<b>Q31 Tasks completed after Deliverable 2:</b>	<b>22</b>
<b>Q32 Run Time Permission</b>	<b>22</b>

## Project Description:

For the project goal we have decided to design a system that looks after Bus maintenance and safety. Our system would be monitoring Speed of the bus, Co2 level inside the bus, Temperature inside the bus and will keep a count of the number of passengers in it. If any value is more than the preset values it sends a notification via the app to the user to take appropriate action.

## Note:

Our app doesn't comply with Q14 of deliverable 3( If you have login logic in your application, in addition to creating an account, allow the user to login using one of the popular accounts, i.e. Gmail, Facebook,...etc) as it is not the requirement for our business model.

As discussed with you in the session on 3rd Nov, as the admin will add users, there is no need for Registration and 3rd Party Sign-In.

## Contribution:

Name	id	Signature	Effort
Naman Bhavinbhai Shah	N01392496	Naman Bhavinbhai Shah	<b>100%</b>
Jaskirat Singh	N01403975	Jaskirat Singh	<b>100%</b>
Vishesh Bansal	N01395119	Vishesh Bansal	<b>100%</b>
Aryan Sood	N01393003	Aryan Sood	<b>100%</b>

# GitHub repo link and strategy:

<https://github.com/NamanShah2496/BusCarePlus>

The strategy that we have implemented is that each member would have his separate branch into which they will individually contribute the code. After completion the group members would unanimously decide if the code is acceptable and then it would be pushed into the master branch. This ensures that a bug/error in a member's code doesn't negatively affect the effort of other group members.

## Q13 Sprint Goals

Sprint 4 (Nov 15- Nov 30) Epic: Notification Feature for better user experience		Assignee	Tasks	Status	Start Date	End date	(
As a customer i want the values and units to change based on the unit settings saved on settings page		IS	▶ 1 of 5	Working on it	Nov 15	Nov 30	
As a customer, I want to receive small and accurate notification in case of unexpected data reading value		IS	▶ 1 of 5	Working on it	Nov 15	Nov 30	
As a customer, I want to see detailed information about Co2, temperature sensor		IS	▶ 1 of 5	Working on it	Nov 15	Nov 30	
As a customer, I want to see detailed information about number of people on bus and speed of the bus		IS	▶ 1 of 5	Working on it	Nov 15	Nov 30	
+ Add							

Sprint 3 (Oct 25 - Nov 14 ) Epic: Data management using sharedprefs and firebase		Assignee	Tasks	Status	Start Date	End date	(
As a customer, I want a feedback page to provide my feedback for improvement of app		IS	▶ 1 of 5	Done	Oct 25	Nov 10	
As a customer, I want a my account page to edit my details		IS	▶ 1 of 5	Done	Oct 26	Nov 10	
As a customer, I want my app to save my setting preferences		IS	▶ 1 of 5	Done	Oct 26	Nov 5	
As a customer, I want my app to switch between metric and imperial systems		IS	▶ 1 of 5	Done	Oct 26	Nov 5	
+ Add							

## Q14-20 Sprint 3 and 4

The reason that there are only 2 assignees is because our free trial had expired and the free version just allows 2 members to work on a project.

### Sprint 3

Sprint 3 (Oct 25 - Nov 14 ) Epic: Data management using sharedprefs and firebase		Assignee	Tasks	Status	Start Date	End date	(
As a customer, I want a feedback page to provide my feedback for improvement of app		IS	▶ 1 of 5	Done	Oct 25	Nov 10	
As a customer, I want a my account page to edit my details		IS	▶ 1 of 5	Done	Oct 26	Nov 10	
As a customer, I want my app to save my setting preferences		IS	▶ 1 of 5	Done	Oct 26	Nov 5	
As a customer, I want my app to switch between metric and imperial systems		IS	▶ 1 of 5	Done	Oct 26	Nov 5	
+ Add							

Sprint 3 (Oct 25 - Nov 14) Epic: Data management using sharedprefs and firebase		Assignee	Tasks	Status	Start Date	End date
As a customer, I want a feedback page to provide my feedback for improvement of app			Done		Oct 25	Nov 10
<b>Subitems</b>						
Create a seperate tab for accepting user feedback	Edit		Done	Oct 25	Oct 25	Small
Create star emojis to obtain rating out of 5			Done	Oct 26	Oct 26	Medium
Create plaintext design to obtain written comments			Done	Oct 26	Oct 26	Small
Create a save button to save final feedback			Done	Oct 26	Oct 26	Small
Send data to database to save customer feedback			Done	Nov 2	Nov 10	Medium
+ Add Subitem						

Sprint 3 (Oct 25 - Nov 14) Epic: Data management using sharedprefs and firebase		Assignee	Tasks	Status	Start Date	End date
As a customer, I want a feedback page to provide my feedback for improvement of app			Done	Oct 25	Nov 10	
As a customer, I want a my account page to edit my details			Done	Oct 26	Nov 10	
<b>Subitems</b>						
Create a seperate screen with proper UI to show and update details of user			Done	Oct 26	Oct 26	Small
Obtain previous or default data from database			Done	Nov 2	Nov 10	Medium
Show the data extracted into editable fields so that user can update details			Done	Nov 2	Nov 10	Small
Create a save button to save the updated details into firebase			Done	Oct 26	Oct 26	Small
Notify user with the toast on successful update of data			Done	Nov 9	Nov 10	Small
+ Add Subitem						

Sprint 3 (Oct 25 - Nov 14) Epic: Data management using sharedprefs and firebase		Assignee	Tasks	Status	Start Date	End date
As a customer, I want a feedback page to provide my feedback for improvement of app			Done	Oct 25	Nov 10	
As a customer, I want a my account page to edit my details			Done	Oct 26	Nov 10	
As a customer, I want my app to save my setting preferences			Done	Oct 26	Nov 5	
<b>Subitems</b>						
Use sharedprefs to save customer preferences			Done	Nov 1	Nov 5	Medium
Create a save button to save preferences into shared preferences function			Done	Oct 26	Oct 26	Small
Save or update data in shared preferences everytime customer changes any setting			Done	Nov 1	Nov 5	Medium
Extract previous data and change UI of settings page automatically based on previous se...			Done	Nov 1	Nov 5	Medium
Extract and apply data on other activities as well to keep settings same for every page of ...			Done	Nov 4	Nov 5	Medium
+ Add Subitem						

Sprint 3 (Oct 25 - Nov 14) Epic: Data management using sharedprefs and firebase		Assignee	Tasks	Status	Start Date	End date
As a customer, I want a feedback page to provide my feedback for improvement of app			Done	Oct 25	Nov 10	
As a customer, I want a my account page to edit my details			Done	Oct 26	Nov 10	
As a customer, I want my app to save my setting preferences			Done	Oct 26	Nov 5	
As a customer, I want my app to switch between metric and imperial systems			Done	Oct 26	Nov 5	
<b>Subitems</b>						
Create 2 radio buttons to select between metric or imperial system			Done	Oct 26	Oct 26	Small
Change units in speedbar value automatically when customer switches between the 2 op...			Done	Nov 1	Nov 5	Medium
Create a radiogroup to allow user to select only one radiobutton at a time			Done	Oct 26	Oct 26	Small
Create a save button to save the final selection of customer			Done	Oct 26	Oct 26	Small
Save the final selection in shared preferences to use customer's choice of units all over th...			Done	Nov 2	Nov 5	Medium
+ Add Subitem						

# Sprint 4

⌚ Sprint 4 (Nov 15- Nov 30) Epic: Notification Feature for better user experience

	Assignee ⓘ	Tasks	Status	Start Date	End date	(
As a customer i want the values and units to change based on the unit settings saved on settings page		5	Working on it	Nov 15	Nov 30	
<b>Subitems</b>	Owner	Status	Start Date	End Date	Size	⊕
Save the user's choice of units in shared preferences		Done	Nov 1	Nov 5	Small	
Extract the data from firebase		Done	Nov 1	Nov 5	Medium	
Change data (if needed) according to user's choice		Working on it	Nov 5		Medium	
Display data with proper units		Working on it	Nov 5		Small	
Compare to threshold value set by user to indicate if every value is in expected range or not		Working on it	Nov 5		Medium	
+ Add Subitem						

⌚ Sprint 4 (Nov 15- Nov 30) Epic: Notification Feature for better user experience

	Assignee ⓘ	Tasks	Status	Start Date	End date	(
As a customer i want the values and units to change based on the unit settings saved on settings page		5	Working on it	Nov 15	Nov 30	
As a customer, I want to receive small and accurate notification in case of unexpected data reading value		5	Working on it	Nov 15	Nov 30	
As a customer, I want to see detailed information about Co2, temperature sensor		5	Working on it	Nov 15	Nov 30	
As a customer, I want to see detailed information about number of people on bus and speed of the bus		5	Working on it	Nov 15	Nov 30	
+ Add						

⌚ Sprint 4 (Nov 15- Nov 30) Epic: Notification Feature for better user experience

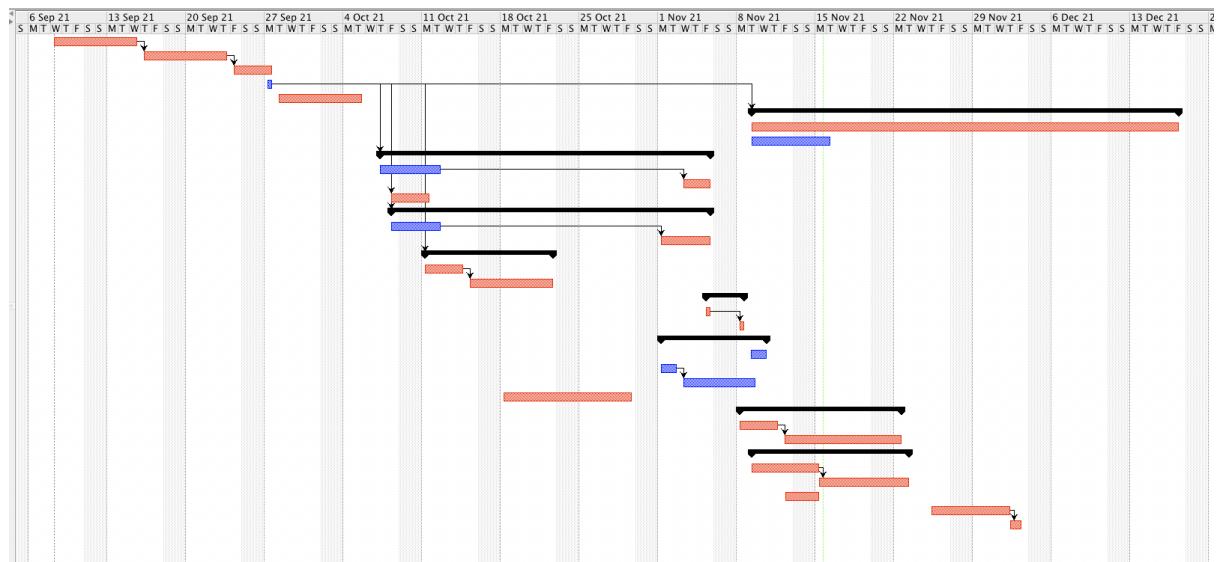
	Assignee ⓘ	Tasks	Status	Start Date	End date	(
As a customer i want the values and units to change based on the unit settings saved on settings page	Edit	5	Working on it	Nov 15	Nov 30	
As a customer, I want to receive small and accurate notification in case of unexpected data reading value		5	Working on it	Nov 15	Nov 30	
<b>Subitems</b>	Owner	Status	Start Date	End Date	Size	⊕
Extract data from firebase every few seconds		Done	Nov 1	Nov 14	Medium	
Check if data is in expected range everytime we extract data		Working on it	Nov 15		Medium	
Notify the user if some reading is not in expected range		Working on it	Nov 15		Small	
Add a proper title to notification		Planned	Nov 20		Small	
Add small and descriptive message to notification		Planned	Nov 20		Small	
+ Add Subitem						

Sprint 4 (Nov 15- Nov 30) Epic: Notification Feature for better user experience						
		Assignee ①	Tasks	Status	Start Date	End date
	As a customer i want the values and units to change based on the unit settings saved on settings page		▶ 1 of 5	Working on it	Nov 15	Nov 30
	As a customer, I want to receive small and accurate notification in case of unexpected data reading value		▶ 1 of 5	Working on it	Nov 15	Nov 30
	As a customer, I want to see detailed information about Co2 and temperature of bus		▼ 1 of 5	Working on it	Nov 15	Nov 30
Subitems						
	Create a page to show temperature and air quality emitted by bus		Done	Oct 26	Oct 26	Small
	Use proper images to differentiate between temperature and air quality sections		Done	Nov 1	Nov 10	Small
	Extract real time data from database and keep updating the data every few seconds		Done	Nov 1	Nov 14	Medium
	Compare the data received with expected levels and notify user whenever some value is ...		Working on it	Nov 15		Medium
	Use proper units behind temperature and CO2 readings to give an accurate idea of data		Working on it	Nov 15		Small
	+ Add Subitem					

Sprint 4 (Nov 15- Nov 30) Epic: Notification Feature for better user experience						
		Assignee ①	Tasks	Status	Start Date	End date
	As a customer i want the values and units to change based on the unit settings saved on settings page	Edit	▶ 1 of 5	Working on it	Nov 15	Nov 30
	As a customer, I want to receive small and accurate notification in case of unexpected data reading value		▶ 1 of 5	Working on it	Nov 15	Nov 30
	As a customer, I want to see detailed information about Co2 and temperature of bus		▶ 1 of 5	Working on it	Nov 15	Nov 30
	As a customer, I want to see detailed information about number of people on bus and speed of the bus		▼ 1 of 5	Working on it	Nov 15	Nov 30
Subitems						
	Create a page to show speed of the bus and number of people on the bus		Done	Oct 26	Oct 26	Small
	Use proper images to differentiate between speed and number of people sections		Done	Nov 1	Nov 10	Small
	Extract real time data from database and keep updating the data every few seconds		Done	Nov 1	Nov 14	Medium
	Compare the data received with expected levels and notify user whenever some value is ...		Working on it	Nov 15		Medium
	Use proper units behind number of people and speed readings to give an accurate idea of...		Working on it	Nov 15		Small
	+ Add Subitem					

## Q21-24 Gantt Chart

#	⌚	Name	Status	Name	Duration	Start	Finish	Predecessors
1		Deciding a Team	Done	Everyone	6 days	08/09/21 08:00	15/09/21 17:00	
2		Selecting an idea	Done	Everyone	6 days	16/09/21 08:00	23/09/21 17:00	1
3		Setup basic skeleton of the application	Done	Everyone	2 days	24/09/21 08:00	27/09/21 17:00	2
4		Allocation of Tasks	Done	Naman Shah	1 day	27/09/21 08:00	27/09/21 17:00	
5		Documentation milestone	Done	Everyone	6 days?	28/09/21 08:00	05/10/21 17:00	
6		Home Screen			28 days?	09/11/21 09:00	17/12/21 09:00	4
7		Home Screen Design	Done	Everyone	28 days?	09/11/21 09:00	17/12/21 09:00	
8		Home Screen functionality	done	Everyone	5 days?	09/11/21 09:00	16/11/21 09:00	
9		Help Screen			22 days?	07/10/21 08:00	05/11/21 17:00	4
10		Help Screen Design	Done	Naman Shah & Aryan Sood	4 days	07/10/21 08:00	12/10/21 17:00	
11		Help Screen Functionality	Done	Naman Shah	3 days	03/11/21 08:00	05/11/21 17:00	10
12		Splash Screen	Done	Aryan Sood	2 days	08/10/21 08:00	11/10/21 17:00	4
13		Login Screen			21 days	08/10/21 08:00	05/11/21 17:00	4
14		Login Screen Design	Done	Vishesh Bansal	3 days	08/10/21 08:00	12/10/21 17:00	
15		Login Screen functionality	Done	Vishesh Bansal	5 days	01/11/21 08:00	05/11/21 17:00	14
16		Settings Screen			10 days?	11/10/21 08:00	22/10/21 17:00	4
17		Settings Screen Design	Done	Jaskirat Singh	4 days	11/10/21 08:00	14/10/21 17:00	
18		Settings screen functionality	Done	Jaskirat Singh	6 days?	15/10/21 08:00	22/10/21 17:00	17
19		MyAccount Screen			2 days?	05/11/21 08:00	08/11/21 17:00	
20		MyAccount Screen Design	Done	Aryan Sood	1 day	05/11/21 08:00	05/11/21 17:00	
21		MyAccount Screen Functionality	Done	Vishesh Bansal	1 day	08/11/21 08:00	08/11/21 17:00	20
22		Feedback Screen Design			8 days?	01/11/21 08:00	10/11/21 17:00	
23		Notification Functionality	Done	Aryan Sood	2 days?	09/11/21 08:00	10/11/21 17:00	
24		Feedback screen Design	Done	Aryan Sood	2 days	01/11/21 08:00	02/11/21 17:00	
25		Feedback Screen functionality	Done	Vishesh Bansal	5 days?	03/11/21 08:00	09/11/21 17:00	24
26		Firebase Implementation	Done	Vishesh Bansal	10 days?	18/10/21 08:00	29/10/21 17:00	
27		Maintenance Screen			11 days?	08/11/21 08:00	22/11/21 17:00	
28		Maintenance Screen Design	Done	Jaskirat Singh	4 days?	08/11/21 08:00	11/11/21 17:00	
29		Maintenance screen functionality	In-Progress	Vishesh Bansal	7 days?	12/11/21 08:00	22/11/21 17:00	28
30		Safety Screen			10 days?	09/11/21 09:00	23/11/21 09:00	
31		Safety Screen Design	Done	Jaskirat Singh	4 days?	09/11/21 09:00	15/11/21 09:00	
32		Safety Screen functionality	In-progress	Vishesh Bansal	6 days?	15/11/21 09:00	23/11/21 09:00	31
33		About us Screen work	Done	Aryan Sood	1 day?	12/11/21 09:00	15/11/21 09:00	
34		Final Debugging	Open	Everyone	5 days?	25/11/21 09:00	02/12/21 09:00	
35		Submission	Open	Everyone	1 day?	02/12/21 09:00	03/12/21 09:00	34



## Q25 Daily Stand-ups Outcomes

Meeting Date	Outcome	Missed Daily Standups
10 <sup>th</sup> November 2021	<ul style="list-style-type: none"> <li>1. Redesign of Home Screen discussion</li> <li>2. Helped Jaskirat to solve settings page bug</li> <li>3. Review screen discussion</li> </ul>	N/A
7 <sup>th</sup> November 2021	<ul style="list-style-type: none"> <li>1. Brainstorming ideas for Async Task</li> <li>2. Sprint retrospective meeting</li> <li>3. Review for the work done by the team</li> <li>4. Distribution of next tasks</li> </ul>	N/A
2 <sup>nd</sup> November 2021	<ul style="list-style-type: none"> <li>1. Discussion on Home screen design</li> <li>2. Helped Naman on Debugging Help Screen</li> </ul>	N/A

27 <sup>th</sup> October 2021	<ol style="list-style-type: none"> <li>1. Discussions on Feedback received from professor for deliverable 2</li> <li>2. Distribution of tasks from feedback</li> <li>3. Gantt chart discussion</li> <li>4. Deliverable 3 discussions</li> </ol>	N/A
22 <sup>nd</sup> October 2021	<ol style="list-style-type: none"> <li>1. Discussions on DoD</li> <li>2. Discussion on Login Page features</li> <li>3. Review for the work done by the team</li> </ol>	N/A
17 <sup>th</sup> October 2021	<ol style="list-style-type: none"> <li>1. Brainstorming ideas for settings screen new features</li> <li>2. Discussions on Notification feature</li> <li>3. Discussed and improvised where we lacked behind for deliverable 2</li> </ol>	N/A

## Q26 Daily Standups

<https://codingcomrades.invisionapp.com/freehand/Daily-Stand-Up-Z6I7Rm86W>

## Daily Standup

### Sprint 3

November 10th 2021

#### Vishesh

#### Naman

#### Jaskirat

#### Aryan

##### What did you work on yesterday?

Implementing firebase HomeScreen functionality with Aryan  
Sending customer feedback to database

##### What did you work on yesterday?

- Working on Sprint Retrospective based on team feedbacks during the meeting
- Updating records of daily stand ups based on everyone's work
- Brainstorming on ideas for use of AsyncTask for our application
- Research on the design of Maintenance and safety screen

##### What will you work on today?

Documentation  
Implementing Firebase with Safety and Maintenance

##### Any blockers?

- No blockers at the moment

#### Naman

##### What did you work on yesterday?

- Redesign of Home Screen Fragment
- Adding functionalities on Home Screen

##### What will you work on today?

Documentation  
Implementing Firebase with Safety and Maintenance

##### Any blockers?

- No blockers at the moment

#### Jaskirat

##### What did you work on yesterday?

- Worked on maintenance page UI

##### What will you work on today?

- Work on safety page UI

##### Any blockers?

- No blockers at the moment

#### Aryan

##### What did you work on yesterday?

Implementing firebase HomeScreen functionality with Vishesh  
About us Screen

##### What will you work on today?

Documentation  
Landscape orientation for review and about us  
App color change discussion

##### Any blockers?

- No blockers at the moment

## Daily Standup

### Sprint 3

November 7th 2021

#### Vishesh

#### Naman

#### Jaskirat

#### Aryan

##### What did you work on yesterday?

Saving Data in SharedPref  
Integration of firebase and firestore

##### What did you work on yesterday?

- Bug of Help Activity solved with the guidance of professor
- Completed the DoD of Help Screen and marked it done in Gantt
- Completed Gantt chart with team members onboard

##### What will you work on today?

Implementing firebase HomeScreen functionality with Aryan  
Sending customer feedback to database

##### Any blockers?

- No blockers at the moment

##### What will you work on today?

- Working on Sprint Retrospective based on team feedbacks during the meeting
- Updating records of daily stand ups based on everyone's work
- Brainstorming on Ideas for use of AsyncTask for our application
- Research on the design of Maintenance and safety screen

##### Any blockers?

- No blockers at the moment

##### What did you work on yesterday?

- Worked on saving state of portrait and dark theme using sharedPreferences.

##### What will you work on today?

- Work on saving switch values and radiobutton choice of settings screen in shared preferences.

##### Any blockers?

- No blockers at the moment

##### What did you work on yesterday?

- implemented Notification functionality

##### Documentation

##### What will you work on today?

Implementing firebase HomeScreen functionality with Vishesh  
About us Screen

##### Any blockers?

- No blockers at the moment

## Daily Standup

### Sprint 3

November 2nd 2021

#### Vishesh

##### What did you work on yesterday?

- Working on Login Screen Functionality
- Discussion about Home Screen with Jaskirat
- Firebase database design
- Firestore database design

##### What will you work on today?

- Saving Data in SharedPref
- Integration of firebase and firestore

##### Any blockers?

- No blockers at the moment

#### Naman

##### What did you work on yesterday?

- Discussions on Feedback received from professor for Deliverable 2
- Debugging Help page permission functionalities
- Discussions on Home Screen re-design

##### What will you work on today?

- Research on Home Screen Design
- Creation of Help Fragment as a backup if permission feature doesn't get solved
- Debugging of Help Activity permission

##### Any blockers?

- Help Page Permission not working properly

#### Jaskirat

##### What did you work on yesterday?

- Debugging Dark Theme Issue with home page

##### What will you work on today?

- Give feedback to the manager about sprint retrospective
- Working on Saving the users preferences on settings screen

##### Any blockers?

- No blockers at the moment

#### Aryan

##### What did you work on yesterday?

- About us screen
- Review Screen

##### What will you work on today?

- Implemented Notification functionality

Documentation

##### Any blockers?

- No blockers at the moment

## Daily Standup

### Sprint 3

October 27nd 2021

#### Vishesh

##### What did you work on yesterday?

- Worked on Remember Me functionality
- Discussion with Jaskirat Sign on HomeScreen UI and app Theme

##### What will you work on today?

- Working on Login Screen Functionality
- Discussion about Home Screen with Jaskirat
- Firebase database design
- Firestore database design

##### Any blockers?

- No blockers at the moment

#### Naman

##### What did you work on yesterday?

- Eliminated hardcoded of text in HelpActivity
- Solved the bug of image in navigation drawer
- Added help page landscape view

##### What will you work on today?

- Discussions on Feedback received from professor for Deliverable 2
- Debugging Help page permission functionalities
- Discussions on Home Screen re-design

##### Any blockers?

- Help Page Permission not working properly

#### Jaskirat

##### What did you work on yesterday?

- Worked on functionality of dark theme.

##### What will you work on today?

- Discussion about Home Screen with Vishesh

##### Any blockers?

- Dark Theme is not implementing on Home Page

#### Aryan

##### What did you work on yesterday?

- Help Screen redesign
- MyAccount redesign

##### What will you work on today?

- About us screen
- Review Screen

##### Any blockers?

- No blockers at the moment

## Daily Standup

### Sprint 3

October 22nd 2021

#### Vishesh

##### What did you work on yesterday?

- Working on Login Screen Functionality
- Creating user into firebase and working on custom login

##### What will you work on today?

- Work on Remember Me functionality
- Discussion with Jaskirat Singh on HomeScreen UI and app Theme

##### Any blockers?

- No blockers at the moment

#### Naman

##### What did you work on yesterday?

- Updating records of daily stand ups based on everyone's work
- Working on Navigation drawer and side menu UI
- Brainstorming features for settings page

##### What will you work on today?

- Eliminating hardcoded of text in HelpActivity
- Solving the bug of image in navigation drawer
- Adding help page landscape view

##### Any blockers?

- Help Page Permission not working properly

#### Jaskirat

##### What did you work on yesterday?

- Changing screen features according to feedback of team

##### What will you work on today?

- Work on functionality of portrait mode.

##### Any blockers?

- No blockers at the moment

#### Aryan

##### What did you work on yesterday?

- Implementing the Review Screen

##### What will you work on today?

- Redesigned Help Screen

MyAccount redesign

##### Any blockers?

- No blockers at the moment

## Daily Standup

### Sprint 3

October 17th 2021

#### Vishesh

##### What did you work on yesterday?

- Reading about Firebase custom authentication and Google Sign-In
- Removing excess text fields from the Login Screen as per the feedback.

##### What will you work on today?

- Working on Login Screen Functionality
- Creating user into firebase and working on custom login

##### Any blockers?

- Limited knowledge of Firebase, had to refer documents and other references.

#### Naman

##### What did you work on yesterday?

- Completion of Business Case Model
- Wrapping up all the assigned tasks and complete features of deliverable 2
- Distribution of tasks

##### What will you work on today?

- Updating records of daily stand ups based on everyone's work
- Working on Navigation drawer and side menu UI
- Brainstorming features for settings page

##### Any blockers?

- Help Page Permission not working properly

#### Jaskirat

##### What did you work on yesterday?

- Working on design of settings screen

##### What will you work on today?

- Updating features of settings screen

##### Any blockers?

- Confusion regarding which functions to use

#### Aryan

##### What did you work on yesterday?

- Learned about how to connect activity to firebase
- Learned about how data flows in the firebase

##### What will you work on today?

Review Screen

##### Any blockers?

- No blockers at the moment

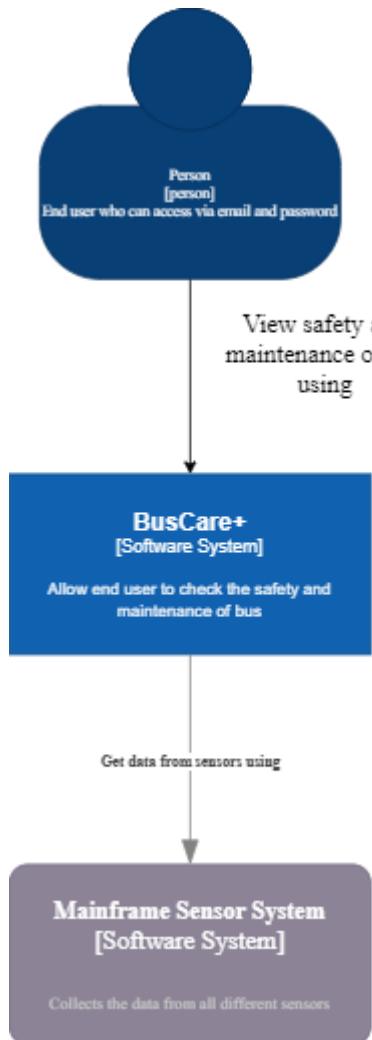
# Q27 Sprint Retrospective

[miro.com/app/board/o9J\\_llUh2tg/](https://miro.com/app/board/o9J_llUh2tg/)

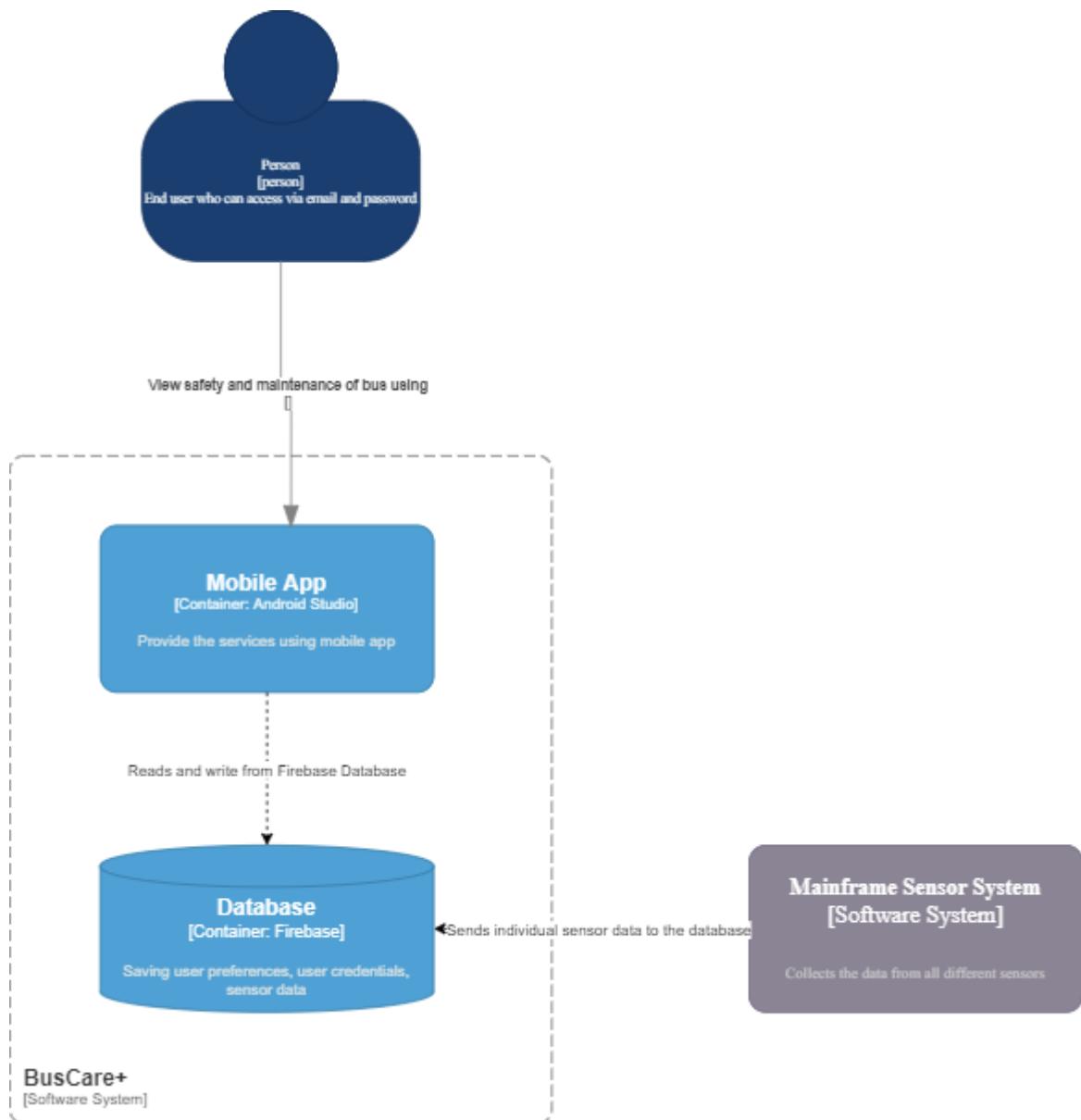


## Q28. C4 Model

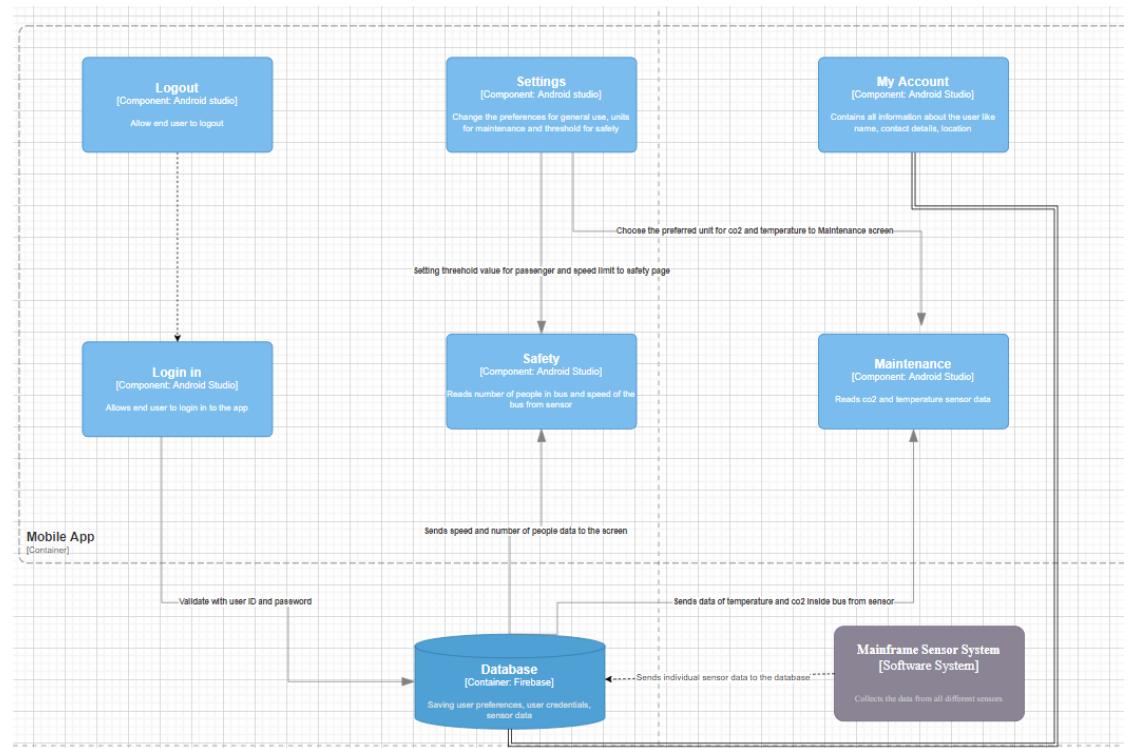
Context Diagram:



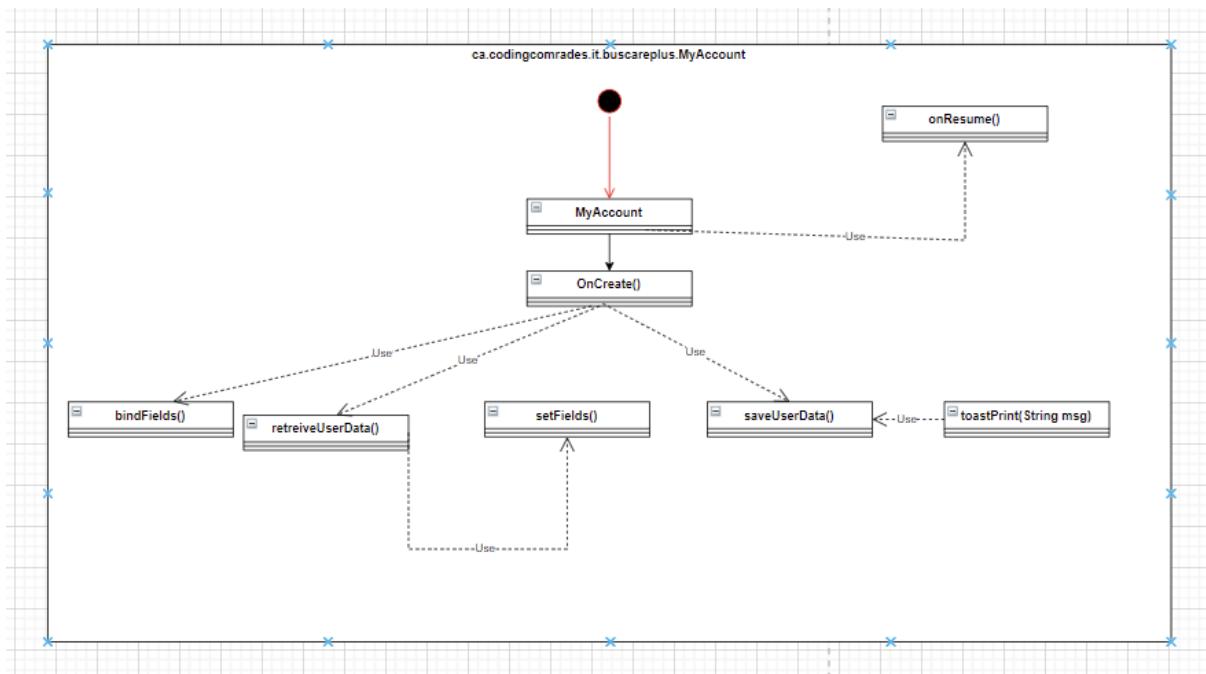
## Container Diagram:



## Component Diagram:



## Code Diagram:



## Q29 Design Principles

2 design principles are:

> Don't Repeat Yourself Principle used in HelpActivity.java

```
public static final int REQUEST_PHONE_CALL = 1;

else {

    ActivityCompat.requestPermissions(this,
        new String[]{Manifest.permission.CALL_PHONE},
        REQUEST_PHONE_CALL);

}

}

@Override

public void onRequestPermissionsResult(int requestCode, @NotNull
String[] permissions, @NotNull int[] grantResults) {

    super.onRequestPermissionsResult(requestCode, permissions,
        grantResults);

    if (requestCode == REQUEST_PHONE_CALL && grantResults.length >
        0 && grantResults[0] == PackageManager.PERMISSION_GRANTED) {

        ConstraintLayout text = findViewById(R.id.constraintLayout);

        Snackbar snackbar = Snackbar
            .make(text, R.string.pg, Snackbar.LENGTH_LONG);

        snackbar.show();
    }
}
```

```

        } else if (requestCode != REQUEST_PHONE_CALL &&
grantResults.length > 0 && grantResults[0] !=
PackageManager.PERMISSION_GRANTED) {

    ConstraintLayout text = findViewById(R.id.constraintLayout);

    Snackbar snackbar = Snackbar

        .make(text, R.string.pd, Snackbar.LENGTH_LONG);

    snackbar.show();

}

```

>Single Responsibility Principle used in  
ReviewActivity.java

```

Ø public class ReviewActivity extends AppCompatActivity {

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_feedback);

        EditText nameEditText = (EditText)
findViewById(R.id.username_input);

```

```

        String fullName = nameEditText.getText().toString();

        TextView tv1 = (TextView) findViewById(R.id.model_print);

        String str = android.os.Build.MODEL;

        tv1.setText(str);

    }

```

## Q30 Design Pattern

2 design patterns are:

> Build (Creational pattern) used in MainActivity.java :

The builder pattern is a design pattern designed to provide a flexible solution to various object creation problems in object-oriented programming.

```

public void onBack() {
    AlertDialog.Builder builder = new
AlertDialog.Builder(MainActivity.this);
    builder.setTitle("Exit!!");
    builder.setMessage("Are you to exit?")
        .setCancelable(false)
        .setPositiveButton("Yes", new DialogInterface.OnClickListener()
{
    public void onClick(DialogInterface dialog, int id) {
        finish();
    }
})
    .setIcon(R.drawable.alert)
    .setNegativeButton("No", new DialogInterface.OnClickListener()
{
    public void onClick(DialogInterface dialog, int id) {
    }
});
builder.show();
}

```

## > Command Pattern used in MainActivity.java

The Command pattern lets you issue requests without knowing the receiver. You encapsulate a request as an object and send it off. Deciding how to complete the request is an entirely separate mechanism

```
@Override  
  
public void onResume() {  
  
    super.onResume();  
  
    SharedPreferences prefs = getSharedPreferences("pref",  
Context.MODE_PRIVATE);  
  
    String port = prefs.getString("port", "false");  
  
    String ds = prefs.getString("ds", "false");  
  
    if(port.equalsIgnoreCase("true")) {  
  
        setRequestedOrientation(ActivityInfo.SCREEN_ORIENTATION_PORTRAIT);  
    } else {  
  
        setRequestedOrientation(ActivityInfo.SCREEN_ORIENTATION_SENSOR);  
    }  
  
    if(ds.equalsIgnoreCase("true")) {  
  
        AppCompatDelegate.setDefaultNightMode(AppCompatDelegate.MODE_NIGHT_YES);  
    } else {
```

```

        AppCompatDelegate.setDefaultNightMode(AppCompatDelegate.MODE_NIGHT_NO);

    }

}

```

## Q31 Tasks completed after Deliverable 2:

- Settings screen all functionalities (Portrait lock, dark theme, unit selection and set the threshold values) working and saving the preferences in the phone
- Login Authentication functionalities with the help of firebase
- MyAccount details of user stored in firebase
- Redesign of Home screen and adding getting data for it from database
- Design of Safety and maintenance screens and adding getting data for it from database
- Logout feature added
- Customer feedback page added
- Notification on feedback submission
- About us page added with website link functionality
- UI of the app updated
- Async task feature added

## Q32 Run Time Permission

We have implemented the ACTION\_CALL functionality in runtime permission where the app takes the permission from the user before dialing the contact number.

```

public void insertDummyContactWrapper() {

    if (ContextCompat.checkSelfPermission(this,
Manifest.permission.CALL_PHONE) == PackageManager.PERMISSION_GRANTED) {

        String phone = getString(R.string.number);

        Intent intent = new Intent(Intent.ACTION_CALL,
Uri.fromParts(getString(R.string.tel), phone, null));

        startActivity(intent);
    }
}

```

```
    } else {

        ActivityCompat.requestPermissions(this,
            new String[]{Manifest.permission.CALL_PHONE},
            REQUEST_PHONE_CALL);
    }

}

@Override

public void onRequestPermissionsResult(int requestCode, @NotNull String[] permissions, @NotNull int[] grantResults) {

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```

