

## **Deliverable 3**

**Team Name:**  
**The Collective**

**Project Name:**  
**OneHome**

### **Group Members:**

<b>Name:</b>	<b>Student Number:</b>
Pratheep Chandrakumar	N01376948
Sukhvir Singh Brar	N01395820
Utsav Sharma	N01392141
Dhruv Dave	N01401657

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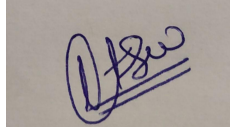
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## Participation

<u>Name</u>	<u>ID</u>	<u>Signature</u>	<u>Effort</u>
Utsav Sharma	N01392141		<ul style="list-style-type: none"><li>- Completed the implementation of the runtime permission, with all the functionality.</li><li>- Complete the menu implementation with all the functionality and UI.</li><li>-Added the functionality of live data displaying and changing from firebase in the temperature and humidity section.</li><li>-Added the notification in the app.</li><li>- Added Customer review screen.</li><li>- worked on to store user input data in the firebase database for assessment.</li><li>- Created a subfolder called deliverable3 under docs.</li><li>- Documented the runtime permission that I have implemented.</li><li>-Worked on to format Gantt Chart and Sprint Retrospective</li></ul>
Pratheep Chandrakumar	n01376948	P.C	-added functionality to the Display, Settings and ReviewUs Classes

			<ul style="list-style-type: none"> <li>-Setup format and layout for the customer review screen</li> <li>-debug and fixed compilation errors</li> <li>-Worked on Gantt Chart</li> <li>-Setup Sprint Retrospective</li> <li>-Created C4 Model</li> </ul>
Dhruv Dave	N01401657	Dhruv Dave	<ul style="list-style-type: none"> <li>-Made curtain fragment more user friendly and attractive by adding background image.</li> <li>-Created a toast that states the status of the position of the curtain.</li> <li>- Added code to lock the app in portrait orientation.</li> <li>-Added my data in team gantt chart</li> <li>-Translated strings and removed hardcoded texts from the app</li> <li>-Check compilation errors and work to solve them.</li> </ul>
Sukhvir Singh Brar	N01395820	SSB	<ul style="list-style-type: none"> <li>-Created toasts for various buttons on my fragment.</li> <li>- Made changes to the UI</li> <li>-Added the data in the Gantt Chart</li> <li>- Was responsible for setting up the daily standup routine</li> <li>- Translated some</li> </ul>

			strings with teammates. - Made minor changes to solve bugs in the code. - Helped in the documentation for the Deliverable 3 document.
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### **Brief description of the project:**

Our final vision is to have a smart device that can read temperature, track motion inside the house and equipped with automated curtains for the house and an LCD display. These components interact with our app by sending data and having controllable settings and options for the app to configure for the device. The app will send notifications of device sensor readings and to control different parts in one home

## GitHub:

<https://github.com/UtsavSharma2141/OneHome.git>


### Manage access


Add people


☐ Select all

Type ▾


☐


**AustinCENG**  
Awaiting AustinCENG's response

Pending Invite 





☐

**DhruvDave1657**  
DhruvDave1657 • Collaborator





☐

**Hak11**  
haki11 • Collaborator





☐


**PratheepChandrakumar6948**  
Collaborator



☐

**SukhvirBrar5820**  
Collaborator





**Get team access controls and discussions for your contributors in an organization.**  
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## **Design Principle:**

The two design principles we tried to use in our project are :

KISS that is Keep It Simple, Stupid we create our app with a simple use in such a way that it is simple and easy to use. Anyone with the least knowledge can use our app in the most convenient way.

We also used DRY which stands for “don’t repeat yourself” principle by trying our best not to repeat the code we have written already and making sure that the code is clean and understandable.

## **Design Pattern:**

The main design patterns we used were the Behavioral and the Creational Patterns. We tried to interlink all the different objects and how their communication would affect the functioning of the other objects and vice versa. This kind of a pattern lets us reduce the complexity in code. We also used this pattern as this kind allows us to not only check the patterns of objects or classes, but also how communication flows through each of them. We also used the Creational Pattern. This allowed us to create objects as a solution for the issues that were arisen in other objects. As we had to create multiple objects in our project, we had to choose a pattern that facilitates the same, and thus this pattern.



## **Sprint Goals**

These are our halfway objectives which will propel us towards our Product Vision.

**Goal 1:** Users can get the live data from the database to monitor the readings.

**Goal 2:** Users can give feedback and review the app.

**Goal 3:** User can get the status of the curtains position by clicking the buttons.

**Goal 4:** Users can access the menu functions like feedback, useful tips to use the app and share the app feature.

**Goal 5:** User can call the helpline by clicking on the dialer logo on toolbar.









## **Stories and Tasks**

### **Sprint 3**

Sprint 3

<

Sprint 3		Subite...	Person	Status	Start Date	End Date	
Work on Curtain Fragment			5	DD	Done	Nov 10	Nov 13
Subitems		Owner	Status	start date	End date		
	Add status of curtain when clicked open button	DD	Done	Nov 10	Nov 10		
	Add Status of curtain when clicked close button	DD	Done	Nov 10	Nov 10		
	Add background image in curtain fragment	DD	Done	Nov 12	Nov 12		
	Work on landscape curtain fragment	DD	Done	Nov 13	Nov 13		
	remove old images and add new background image to landscape cu...	DD	Done	Nov 13	Nov 13		
+ Add Subitem							

Sprint 3		Subite...	Person	Status	Start Date	End Date	
Work on Display Fragment		 1	 5		Done	Nov 12	Nov 14
Subitems	Owner	Status	Start Date	End Date	Size		
<div>Worked on formatting the UI so it appe...</div>		Done	Nov 12	Nov 12	Small		
<div>Created and assigned all inputs in java...</div>		Done	Nov 12	Nov 12	Small		
<div>Coded so all inputs would display toas...</div>		Done	Nov 12	Nov 12	Medium		
<div>Coded editText would display Toast wi...</div>		Done	Nov 12	Nov 12	Medium		
<div>Tested and fixed an error with running ...</div>		Done	Nov 12	Nov 12	Small		

Sprint 3							
Subitems	Owner	Status	Start Date	Completion Date			
Work on the motion sensor fragment	SS	Done					
Make UI changes	SS	Done	Nov 9	Nov 13			
Add a few toasts to improve user expe...	SS	Done	Nov 9	Nov 11			
Remove System time as it is repetitive	SS	Done	Nov 10	Nov 12			
Adding French string translations	SS	Done	Nov 12	Nov 14			
Fixing runtime bugs	SS	Done	Nov 13	Nov 14			

## Sprint 4

Sprint 4	Subitems	Owner	Size	Status	Start Date	End Date
Add a section where user can get support if they need and can share the app with others.	4	US	Extra Large	Done	Nov 11	Nov 13
Subitems		Owner	Status	Start Date	End Date	Size
Add call option in the menu with icon.		US	Done	Nov 9	Nov 9	Small
Add a feedback option in the menu for sending quick feedback through email.		US	Done	Nov 9	Nov 10	Medium
Add a useful tips section in the menu and add the a website where user get more information.		US	Done	Nov 9	Nov 9	Small
Add a section to share the app through play store's link with others.		US	Done	Nov 9	Nov 9	Small
Add the runtime permission dialoge when clicks on call option and if user granted or denied display through the snackbar		US	Done	Nov 9	Nov 12	Extra Large
Add a AlertDialog saying permission required if user deny the premission and give a option to popup permission dialog again		US	Done	Nov 11	Nov 13	Large

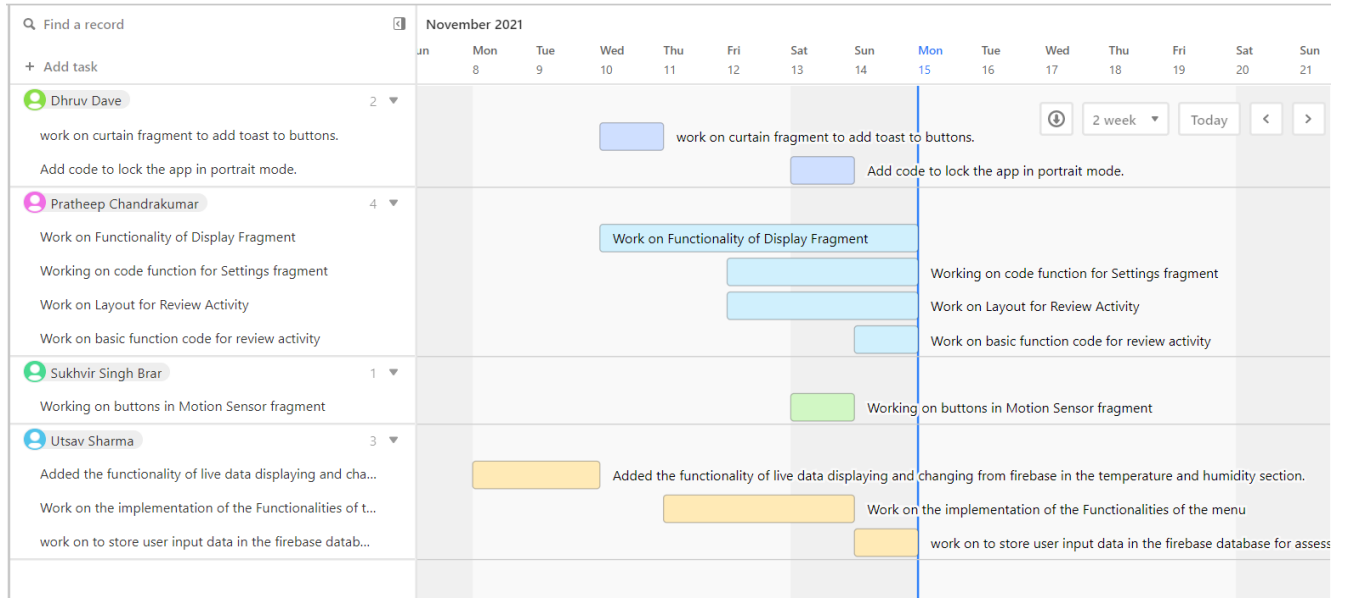
Sprint 4	Subite...	Person	Status	Start Date	End Date
Work on deliverable requirements	4	DD	Done	Nov 10	Nov 14
Subitems		Owner	Status	start date	End date
Check all the code for hardcoded text		DD	Done	Nov 10	Nov 14
Translate all the strings to french		DD	Done	Nov 12	Nov 14
Add code to lock the screen layout to portrait mode		DD	Done	Nov 13	Nov 13
Update deliverable 3 document.		DD	Done	Nov 10	Nov 14
+ Add Subitem					

Sprint 4		Subite...	Person	Status	Start Date	End Date	
ReviewUs Activity			5		Done	Nov 12	Nov 14
Subitems		Owner	Status	Start Date	End Date	Size	
Create and format Layout			Done	Nov 12	Nov 12	Medium	
Create and assign inputs in java file			Done	Nov 13	Nov 13	Small	
Have all editText functions display and...			Done	Nov 13	Nov 13	Small	
Add rating star input and function			Done	Nov 13	Nov 14	Small	
test and fix any compile errors			Done	Nov 14	Nov 14	Medium	

Sprint 4	Owner	Subite...	Status	Priority	Timeline	Cost	Related Assets
Work on button functionality	SS	5					
Subitems		Owner	Status	Start Date	Completion Date		
Make the Set button work		SS	Working on it	Nov 9			
Make the Reset button work		SS	Working on it	Nov 9			
Send all user inputs and default values...		SS	Working on it	Nov 10			
Make the emergency button work		SS	Working on it	Nov 11			
Fix any bugs and crashes and make c...		SS	Done	Nov 13	Nov 14		

## Gantt Chart

<input type="checkbox"/>	A Task Name	Status	Owner	labels	Start date	End Date
<input type="checkbox"/>	Work on basic function code for review activity	Complete	Pratheep Chandrakumar	Functionality	11/14/2021	11/14/2021
2	Work on the implementation of the Functionalities of the menu	Complete	Utsav Sharma	Functionality	11/11/2021	11/13/2021
3	Working on code function for Settings fragment	Complete	Pratheep Chandrakumar	Functionality	11/12/2021	11/14/2021
4	work on to store user input data in the firebase database for assessment in review us screen.	Complete	Utsav Sharma	Functionality	11/14/2021	11/14/2021
5	work on curtain fragment to add toast to buttons.	Complete	Dhruv Dave	Functionality	11/10/2021	11/10/2021
6	Add code to lock the app in portrait mode.	Complete	Dhruv Dave	Functionality	11/13/2021	11/13/2021
7	Added the functionality of live data displaying and changing from firebase in the temperature and humidity section.	Complete	Utsav Sharma	Functionality	11/8/2021	11/9/2021
8	Working on buttons in Motion Sensor fragment	In progress	Sukhvir Singh Brar	Functionality	11/13/2021	11/13/2021
9	Work on Functionality of Display Fragment	Complete	Pratheep Chandrakumar	Functionality	11/10/2021	11/14/2021
10	Work on Layout for Review Activity	Complete	Pratheep Chandrakumar	Functionality	11/12/2021	11/14/2021
10 records						



## Stand-ups

Date	Outcome	Missing
November 9	Ensure proper connection to firebase and set runtime permissions	None
November 10	Create functionality for all fragments and activities	None
November 11	Fix compile errors with app	None
November 12	Start working to finish Deliverable	None
November 13	Continue work on Deliverable and created the Review screen activity	None
November 14	Finish Review Screen activity with firebase function and finish Deliverable 3	None

## Screenshot Example:



**Dhruv Dave** 10:23 PM

Hello Team

1. Yesterday I added image to curtain fragment and made some minor changes to the app also worked on deliverable 3 document.
2. Today I worked on landscape curtain fragment , translated some strings to French and added code to lock the screen orientation for the app to portrait.
3. I faced issue of image not being able to add on drawable folder later realized the issue was with the name of image as it had underscore which is not allowed I renamed the file and fixed that issue.

The issue I mentioned was for yesterday.



**Utsav Sharma** 10:34 PM

Hello all,

1. Yesterday I worked on to remove some bugs and issues of my temperature fragment and worked the documentation of deliverable 3
2. Today, I will be working further on documentation of deliverable 3 and improvement in the design of app.
3. I didn't face any issue yesterday.



**Sukhvir Brar** 11:56 PM

Hi everyone,

1. Yesterday I was having issues with pulling the application from Git. I tried fixing it and had to reinstall and restart, and thus could not do anything significant.
2. Today, I will work on setting functionality to various buttons on my fragment screen.
3. The only issue I had yesterday was with the pulling, which I solved



**Utsav Sharma** 12:37 PM

Hello Team,

1. Yesterday I worked on to add a review screen in the app.
2. Today I will be working on the documentation of deliverable 3 and working on some functionality of the app.
3. I faced a issue when I added a button in the home screen. It was showing in the all fragment. I insterted the button in the linearlayout and solve this issue.



**Dhruv Dave** 9:09 PM

Hello Team,

1. Yesterday I was thinking of a way to connect the curtain fragment to out database.
2. Today I changed look of the curtain fragment and made it more user friendly by adding a background image in it.
3. Yesterday I had issues about what should be the real time database update for curtain fragment and still I'm trying to figure it out



**Utsav Sharma** 1:51 PM

- 1.Yesterday I did work to get the live real time data from the firebase to the temperature and humidity display section and make some minor changes in that section.
- 2.Today I will work to complete my tasks for my story and work on remaining my deliverable 3 tasks.
- 3.I was facing issue yesterday when I only added the string value to the child process firebase real time database. So my app was crashing, but I solved the issue by changing the string line to the int and the issue was resolved and app is working fine now.



**Dhruv Dave** 6:34 PM

Hello guys,

- 1.Yesterday I changed some strings and translated it to French as required.
2. Today I'm trying to work on the curtain fragment and add functionality to the buttons
3. I faced minor issues yesterday which I was able to solve after some time.



**Utsav Sharma** 2:38 PM

Hello Team

1. Yesterday I worked on the documentation of deliverable 3 and some part of the app.
2. Today I will be also working on some of the part of documentation and remains functionality of the app.
3. I faced minor issues yesterday but I solved those one by changing or adding some portion of the code.



**Pratheep Chandrakumar** 7:28 PM

Hello Team

1. Yesterday I work on Fixing my Display Fragment Layout and adding the code for Functionality
2. Today I will work on the Review Activity and finishing the Deliverable 3
3. I face an issue yesterday when my display fragment kept crashing the app, but I was able to fix it after some refactoring



**Sukhvir Brar** 8:52 PM

Hi All

1. Yesterday I worked on fixing the buttons on my fragment.
2. Today I will work on implementing some other functions and also fix the UI
3. I had no issues yesterday.



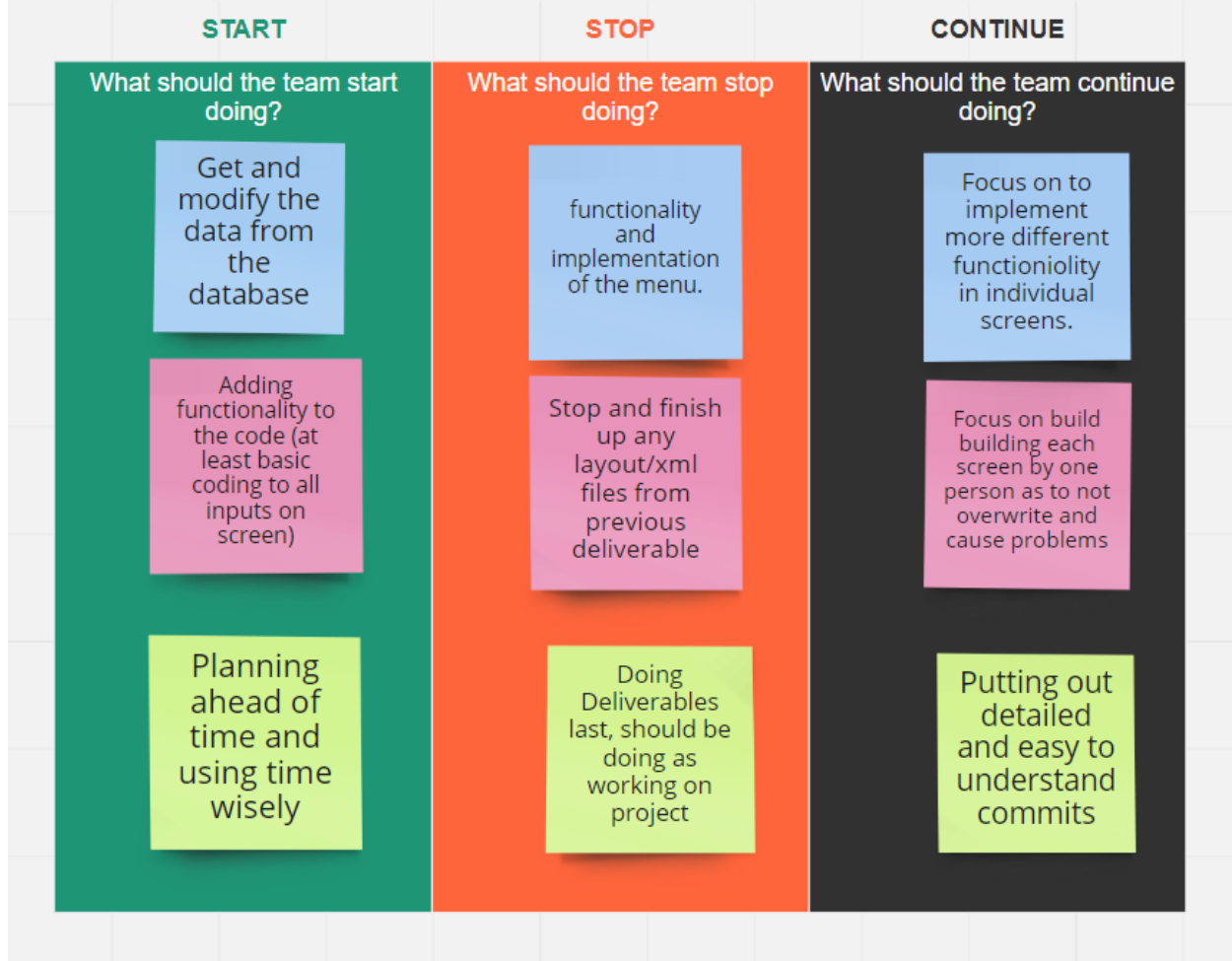
**Dhruv Dave** 9:22 PM

Hello Team

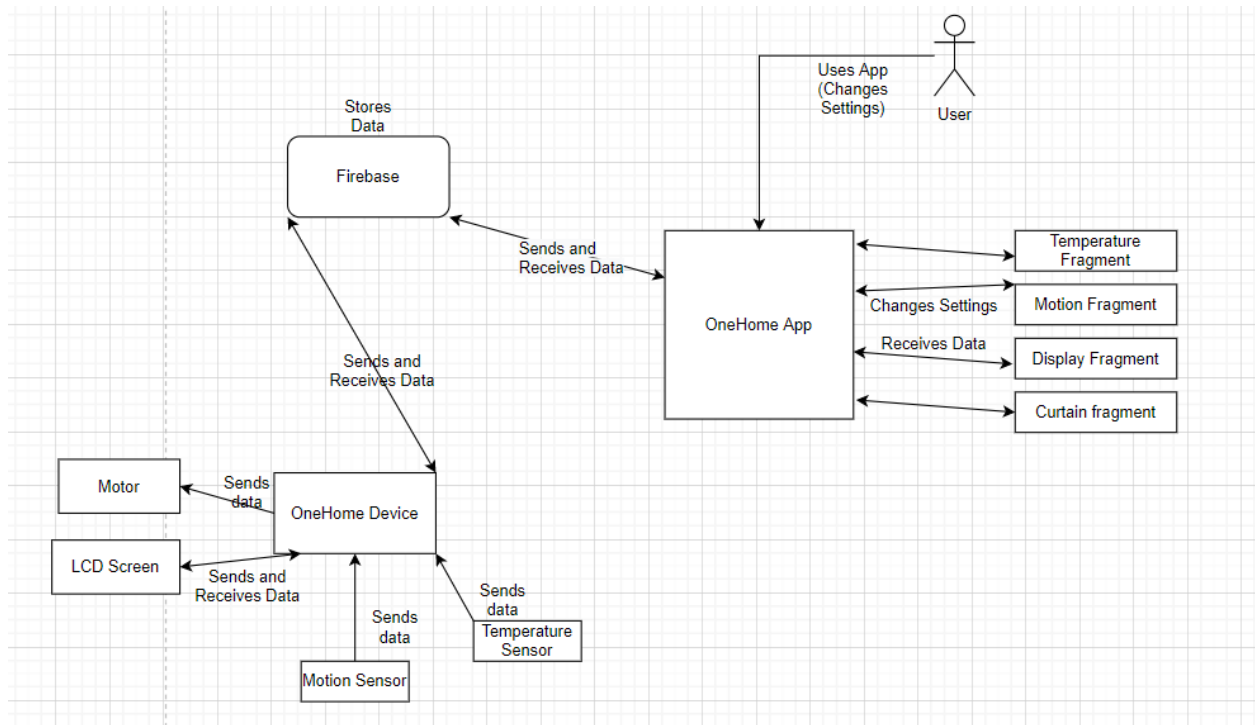
1. Yesterday I started to work on deliverable 3 document and Gantt chart
2. Today I worked on deliverable 3 document and added design principle and some other parts
3. I did not had any issues yesterday

## Sprint Retrospective





## C4 Model



## Update

### Changes since Deliverable 2

- Added Runtime Permissions with proper all functionalities.
- Added the menu implementation with proper all functionalities.
- Added the functionality of real time data reading and changing from the firebase database.
- Added notification in the app when the user clicks on the call option in the menu.
- Added Review Us screen separately.
- Added a background image in the curtain fragment.
- Added the toast that states the status of the curtain's position when clicked the buttons.
- Added toasts to the motion fragment.
- Stored a user input data of review us screen to the firebase database for the assessment.

## **Runtime Permission Documentation**

We have implemented phone call (CALL\_PHONE) permission.

When a user clicks on the call symbol in the menu, the app requests permission to make and manage phone calls.

**Cases:**

1. If the user denies the call permission, the snackbar has been displayed with that call permission denied. When the user clicks on the call icon a second time, the alertdialog has been displayed about permission required and if the user clicks on the option OKAY, again the app requests permission.
2. If the user allows the call permission, the snackbar has been displayed with that call permission granted and the user able to call the helpline number.