

CENG 322 Deliverable 2

Team Name: **Coding Comrades**

Project Name : **BusCare +**

Team members:

Naman Bhavinbhai Shah : N01392496

Jaskirat Singh: N01403975

Vishesh Bansal: N01395119

Aryan Sood: N01393003

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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.

Contribution:

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

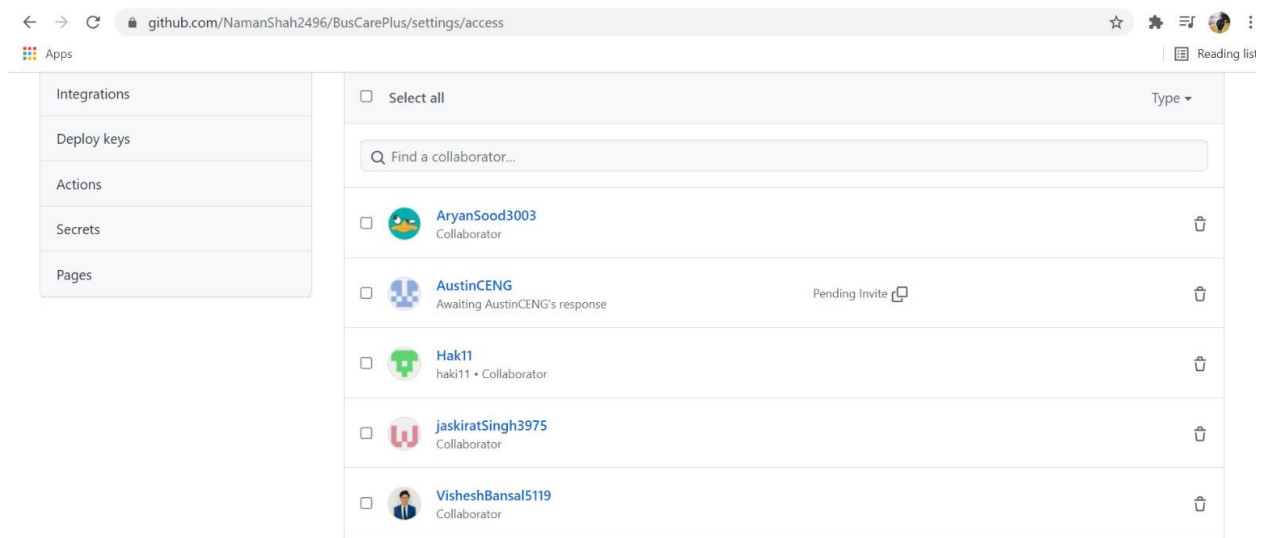
GitHub repo link and strategy:

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

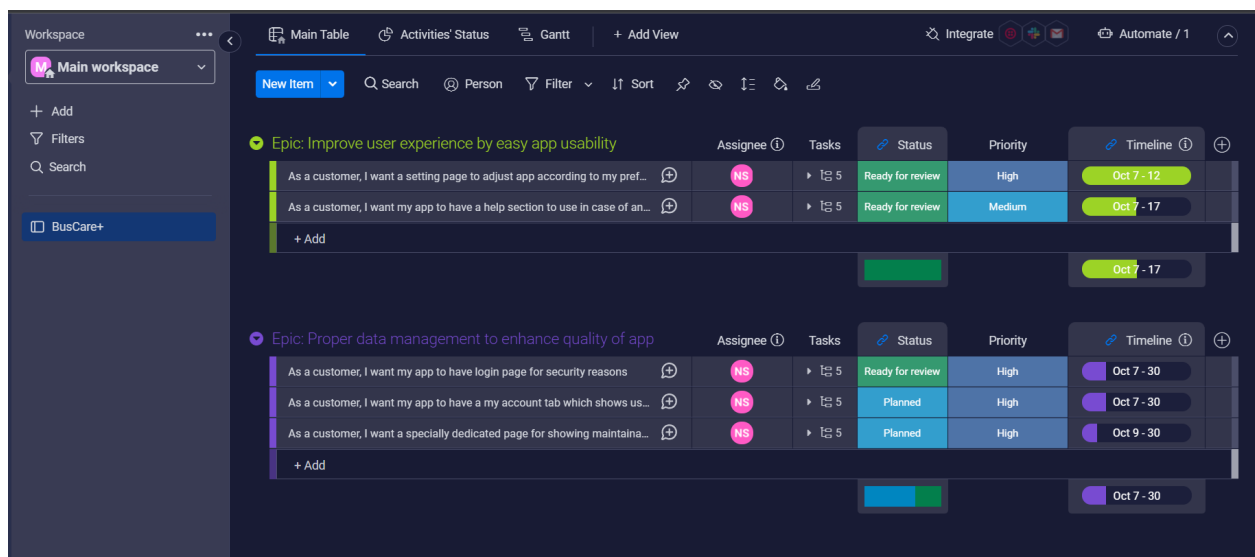
The strategy that we have implemented is that each member would have his separate branch into which they will individually contribute the code. After completion the group members would unanimously decide if the code is acceptable and then it would be pushed into the master

branch. This ensures that a bug/error in a member's code doesn't negatively affect the effort of other group members.

Invitation to professor Austin









All 5 Stories & Tasks:









5 Tasks of individual Stories:








1.

As a customer, I want a setting page to adjust app according to my pref... 								NS	5	Ready for review	High	Oct 7 - 12	
Subitems	Owner	Status	Timeline	Start Date	End Date	Size							
Add settings option to navigation draw... 	NS	Working on it	Oct 7 - 10	Oct 7	Oct 10	Medium							
Add a proper image and title to setting... 	NS	Working on it	Oct 7 - 10	Oct 7	Oct 10	Small							
Create radio buttons to select user pre... 	JS	Working on it	Oct 8 - 10	Oct 8	Oct 10	Small							
Create an enable or disable button for ... 	JS	Working on it	Oct 8 - 10	Oct 8	Oct 10	Small							
Create a toggle button to enable or dis... 	JS	Working on it	Oct 8 - 10	Oct 8	Oct 10	Small							
+ Add Subitem													

2.

As a customer, I want my app to have a help section to use in case of an... 								NS	5	Ready for review	Medium	Oct 7 - 17	
Subitems	Owner	Status	Timeline	Start Date	End Date	Size							
Create a tab dedicated for help section 	JS A	Working on it	Oct 7 - 10	Oct 7	Oct 10	Medium							
Add proper Image and title to make it ... 	A	Working on it	Oct 7 - 10	Oct 7	Oct 10	Small							
Add descriptive information about eac... 	A	Planned	Oct 7 - 17	Oct 7	Oct 17	Medium							
Add description regarding the behavio... 	A	Planned	Oct 7 - 17	Oct 7	Oct 17	Small							
Use different fonts and bold words to ... 	JS	Planned	Oct 7 - 17	Oct 7	Oct 17	Medium							
+ Add Subitem													

3.

As a customer, I want my app to have login page for security reasons 								NS	5	Ready for review	High	Oct 7 - 30	
Subitems	Owner	Status	Timeline	Start Date	End Date	Size							
Create a proper login page to ask for u... 		Working on it	Oct 9 - 11	Oct 9	Oct 11	Medium							
Extract proper data from database an... 	NS	Planned	Oct 15 - 23	Oct 15	Oct 23	Large							
Show proper error message if credenti... 	NS	Planned	Oct 15 - 30	Oct 15	Oct 30	Small							
Provide a forget password option to re... 	JS	Planned	Oct 23 - 30	Oct 23	Oct 30	Medium							
Show successful login message 	JS	Planned	Oct 15 - 30	Oct 15	Oct 30	Small							
+ Add Subitem													

4.

As a customer, I want my app to have a my account tab which shows us...							NS	5	Planned	High	Oct 7 - 30
Subitems	Owner	Status	Timeline	Start Date	End Date	Size					
Create an option in menu bar to go to ...	A	Working on it	Oct 7 - 10	Oct 7	Oct 10	Small					
Add proper image with the my accoun...	A	Working on it	Oct 7 - 10	Oct 7	Oct 10	Small					
Extract user data from database and p...	JS	Planned	Oct 10 - 22	Oct 10	Oct 22	Large					
Provide a button to edit and update da...	A	Working on it	Oct 7 - 22	Oct 7	Oct 22	Medium					
Keep username field uneditable to avo...	JS	Working on it	Oct 15 - 30	Oct 15	Oct 30	Medium					
+ Add Subitem											

5.

As a customer, I want a specially dedicated page for showing maintaina...							NS	5	Planned	High	Oct 9 - 30
Subitems	Owner	Status	Timeline	Start Date	End Date	Size					
Create a page to show temperature an...		Planned	Oct 11 - 17	Oct 11	Oct 17	Medium					
Use proper images to differentiate bet...	JS	Working on it	Oct 8 - 15	Oct 8	Oct 15	Small					
Use proper units behind temperature a...		Working on it	Oct 8 - 15	Oct 8	Oct 15	Small					
Extract real time data from database a...	NS	Planned	Oct 22	Oct 10	Oct 22	Large					
Compare the data received with expec...	A	Planned	Oct 30	Oct 10	Oct 30	Medium					
+ Add Subitem											

17 Tasks marked done:

Login screen, Help Screen, Splash Screen, Settings page

The process of completing the task is described below:

- Decide the tasks that are due in a meeting and assign them to a member.
- Host stand ups regularly to document the progress and discuss on any issues a team member is encountering.
- Make sure the team members are doing their tasks satisfactorily by regularly pulling the code from their branch on the project repo.
- Help a member fix any error that they are encountering in the task.

- After a member is done with their task, each member goes through the code and verifies if its upto the standards decided and works fine,
- If the members are satisfied the code is merged in the master branch of the repo.

18. Business Model Canvas

Customer Segments:

- The end user/customer are the people of the company who watch through the safety and maintenance of the bus

Value Propositions:

- The customer/end user will make the work easy for the company who buy our services as they don't have to check the maintenance of the bus after every certain kms
- They would be able to directly monitor the customer satisfaction through the safety and maintenance feature
- This would increase the satisfaction level of customer and more customer would like to join the services the company provides

Channels:

- LinkedIn Post
- Social Media
- Join start-up company tech fair to sell our product

Customer Relationships:

- Self-service
- IT-Support
- Maintenance for the products

Key Activities:

- Collect and Analyze data
- Expand to more cities outside Toronto
- Keep competitive prices

Key Resources:

- Hardware (sensors)
- Gather Data

Key Partners:

- Investors

- Contract money
- Financial partners
- People using the bus service
- Company using the service

Cost structure:

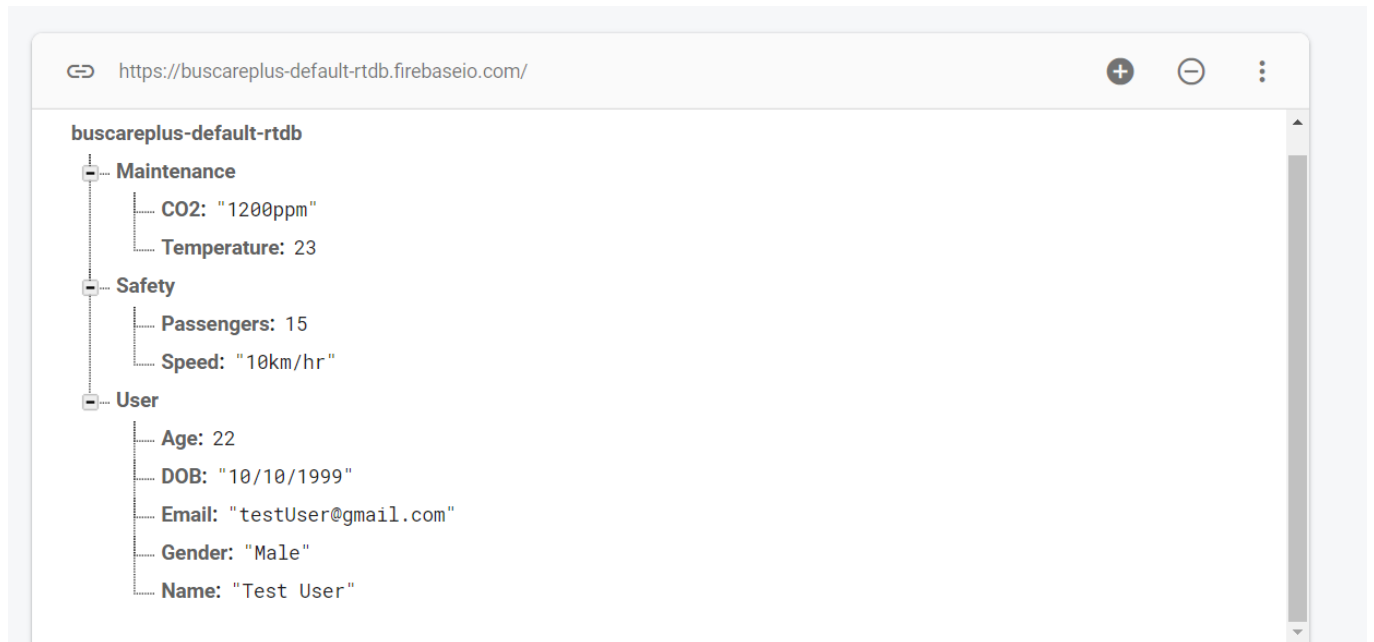
- If a company buys our product then we would provide them maintenance for the App/System and Sensors on basis of yearly paid contract
- As a developer our cost structure would be to update the app/system and solve the bugs by hiring some engineers

Revenues:

- For the company who buys our services would be able to save money and time both to good extent such as they don't have to check every time some of the maintenance parts of the bus, this would require less labor job and time and we all know time is money
- They don't have to hire any IT support team to maintain the system
- For us developer we would be getting contract money from the companies through which we would be earning money from the app

19. Database Info

We will be using Firebase as our cloud database. It is a cloud hosted realtime database that works with NoSQL. It helps to store and sync data in realtime. The data flow is primarily segmented into 3 parts, one for Maintenance Data, second for Safety and the last one for User information.



20 Progress since previous deliverable

Since deliverable 1 we have :

- Designed 5 new screens, Splash, Login, Help, Home and Settings screens.
- We have added new images for better user interface of the app.
- Creation of a firebase database for our app to access in the future.

21. Daily standup report

Date	Agenda	Issues	Resolved(Y/N)	Status	Notes
06-10-2021	Verified the requirements of Deliverable 2	No	N/A	Completed	
	Decided on what the 5	No	N/A	Completed	

	screens will be for the app				
	Assigned the tasks to individual members	No	N/A	Completed	
07-10-2021	Addition of a splash screen @Aryan Sood	Yes	Yes	Completed	Issue on image resolution
	Addition of Setting page @Jaskirat Singh	No	N/A	Completed	
	Addition of Help and Home Screen @Naman Shah	No			
	Addition of Login Page @Vishesh Bansal	Not fully complete	Yes	Partially Completed	The Login screen will be implemented fully on database integration to get user data and verify it
08-10-2021	Decide the options needed in settings screen	No	Yes	Completed	
	Follow up on the progress of the app	No	N/A	Completed	
09-10-2021	Add permission to call	Yes	Yes	Completed	Clicking on call btn after granting permission would crash the app
	Add all the setting functionality	No	N/A	Completed	
	Help in resolution of error in splash screen	Yes,	Yes	Incomplete	Code could not run, as there were errors
10-10-2021	Check splash	No	N/A	Completed	

	screen				
	Check Help and Home Screen	No	N/A	Completed	
	Try members code by pulling from their branch	Yes	Yes	Partially Completed	Errors were encountered in cloning code via git
	Invite professor Austin to repo	No	N/A	Completed	
11-10-2021	Working on resolving git error by creating a test branch	No	N/A	Completed	issue was detected to one team member using an older jdk and gradle version
	Remove any hard-coding of program	No	N/A	Completed	
	Verify if everything is in order	No	N/A	Completed	
12-10-2021	Create a Firebase database for the app	No	N/A	Completed	
	Final deliverable verification	No	N/A	Completed	