CENG-322 Deliverable 2

Team Name: TBD

Project Name: Smart Library Study Room Management and Comfort System

Group: 2

Members:

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Members Info And Participation

Name	Student ID	Github ID	Signature	Effort
Medi Muamba Nzambi	N01320883	MediMuamba08 83	Signed by MediMuamba	90
Mathew Anderson-Sa avedra	N01436706	MathewAnderso n6706	Signed by Mathew A	100
Nicole Chlea Manaoat	N01565017	NicoleManaoat5 017	Signed by NicoleChleaMan aoat	90
Safah Virk	N01596470	Safahvirk6470	Signed by Safah Virk	90

Project Scope and Goals

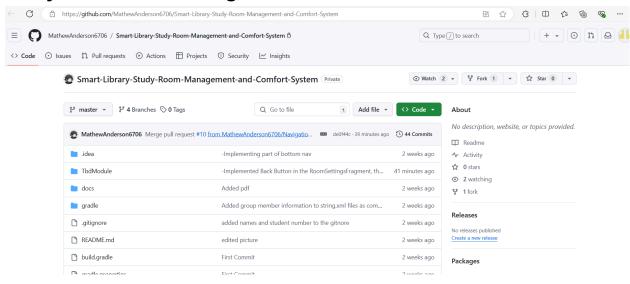
The Scope of this project is to create an easy-to-understand UI, viewing different buildings and accessing different rooms with a variety of different settings to change. The objects in the app will be constantly updated by the database so the user can have the most up-to-date information about the availability of rooms, and different information on the rooms themselves. The goal of this project is to make a well developed and designed app to show off our skills and maybe get this implemented in colleges.

GitHub Repo Link and Strategy

GitHub Repo Link:

https://github.com/MathewAnderson6706/Smart-Library-Study-Room-Management-and-Comfort-System.git

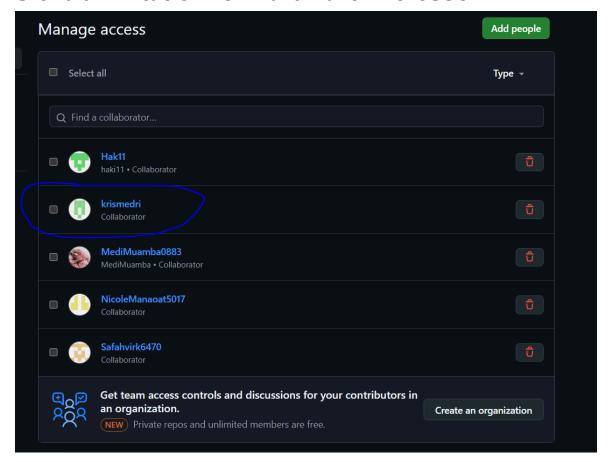
Verify the link is working



Explain the github strategy

- **1. Collaboration:** This is the first thing to do. Someone of our members created a repository and invited us as collaborators. After this you can verify if the link is working.
- **2.Cloning the Repository:** Each collaborator clones the repository using the repository link to get the existing files and code on our local machines.
- **3.Branching for Development:** We create separate branches to start working on our individual tasks. This allows us to safely develop code without affecting the main codebase on the master/main branch. Each of us works within our own branch.
- **4.Committing and Pushing Changes:** Once we've made progress, we commit our changes and push them to our respective branches. Each branch only contains the changes specific to the work done by the individual team member.
- **5.Merging Changes to the Master/Main Branch:** After development is complete, we need to merge the changes back into the master branch.
 - Method: Pull Request: We can create a pull request on GitHub. This is a
 request to merge our work into the master/main branch. A collaborator will review
 the changes and, if everything looks good, they or you can approve and confirm
 the merge. Once approved, the changes will be added to the master branch.
- **6.Getting Updates on the Local Machine:** Once the changes are merged into the master/main branch, you may want to pull the latest changes to your local machine. In Android Studio, this can be done by clicking on the Git menu and selecting Pull or Update Project. This ensures your local code is in sync with the latest version on GitHub.

GitHub invitation for Hardware Professor



Sprint Dashboard

... v Develop Room Availabilty

Task		Owner	Status ①		Due date ③	Priority	Timeline ①
Implement Building selecti	\oplus	8	Done	0	Oct 8	Medium	✓ Oct 7 - 8
Connect Buildings to Roo	\oplus	8	Done	0	Oct 8	High	✓ Oct 7 - 8
Add Green/Red images to	\oplus	8	Working on it	•	Oct 8	Low	Oct 7 - 8
Implement 4 fragments w	\oplus	9	Done	0	Oct 8	High	✓ Oct 6 - 8
Add basic details to the ro	\oplus	9	Working on it	•	Oct 8	Low	Oct 8
+ Add task							
				•	Oct 8		Oct 6 - 8

Database

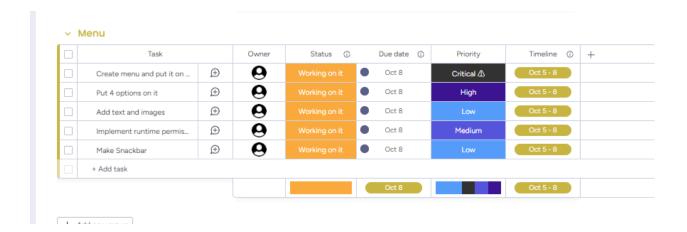
Task		Owner	Status (i) Due date (i)		Due date ③	Priority	Timeline ①
Create Database	⊕	8	Done	0	Oct 8	Critical 🛆	✓ Oct 4 - 8
Implement Temperature/ai	\oplus	9	Done	0	Oct 8	Medium	✓ Oct 4 - 8
Implement Light	⊕	9		•	Oct 8	Medium	Oct 4 - 8
Implement Timer	⊕	9		•	Oct 8	Medium	Oct 4 - 8
Implent Check In/Check O	⊕	8		•	Oct 8	Medium	Oct 4 - 8
Implement Door Opener/C	⊕	9		•	Oct 8	Medium	Oct 4 - 8
+ Add task							
					Oct 8		Oct 4 - 8

User Authentication

Task		Owner	Status ① Due date ①		Priority	Timeline ①	
Allow occupied rooms to b	\oplus	8	Done	0	Oct 8	Low	✓ Oct 7 - 8
Create a passcode for test	\oplus	9	Done	0	Oct 8	Low	✓ Oct 7 - 8
Allow user to type in a cod	⊕	8	Done	0	Oct 8	Low	✓ Oct 7 - 8
Transfer User to room setti	⊕	9	Done	0	Oct 8	Low	✓ Oct 7 - 8
Implement changing passc	⊕	8		0	Oct 15	Low	Oct 12 - 15
+ Add task							
				Oct 8 - 15		Oct 7 - 15	

v Documentation

Task		Owner	Owner Status ① Due date ①		Priority	Timeline ①	
Create document and for	⊕	8	Done	0	Oct 4	Medium	! Oct 4
Task 10-13, 21	⊕	8	Done	0	Oct 6	Medium	! Oct 6
Task 27 & 28	⊕	9		•	Oct 8	Medium	Oct 8
Task 22,29,30,31	⊕	8		•	Oct 8	Medium	Oct 8
Task 9, 16-20	⊕	9		•	Oct 8	Medium	Oct 8
+ Add task							
				Oct 4 - 8		Oct 4 - 8	



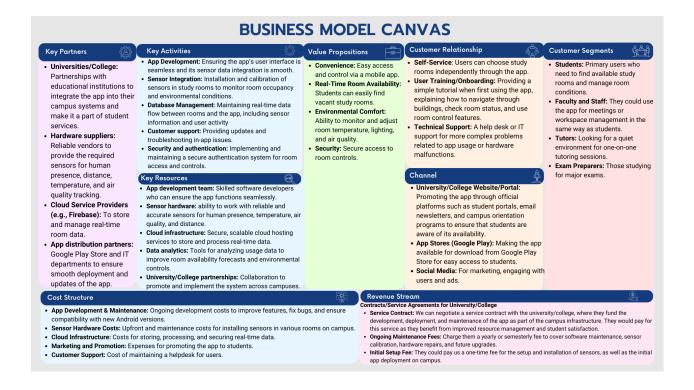
DoD Criteria

For the tasks that have been marked completed, these were the steps taken to meet the DoD criteria. Once we believe a task is done, we do testing to see if it passes. That includes normal testing, unit testing, edge case testing, etc. Once completed, we get the code in our branch reviewed by ourselves and others. Once all the lights are green, we merge it will the main branch.

List of items you included in the DoD

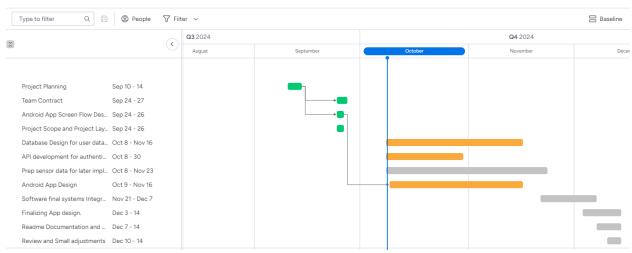
- -Complete Code
- -Testing(normal testing, edge case testing, unit testing)
- -Code Review
- -Merge

Business Model Canvas



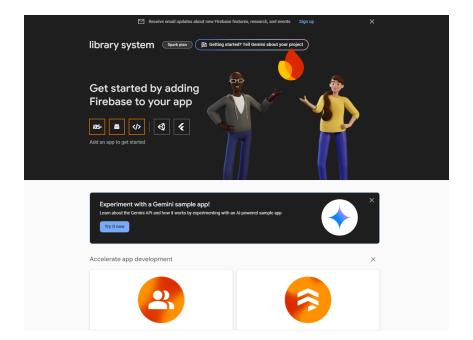
Gantt Chart

Gantt



27. Screenshot showing you have created the DB on the cloud, with some details and type of DB used.

FireBase database



28. Explain how you are planning to use the DB.

Will be using the database to read if the room is occupied or vacant, reading temperature, how many people are in the room, check in/out system, see if door is open/closed, changing code. A lot of our functionality will rely on the database.

Coding work progress & additional features/functionality added since deliverable 1

Based on the feedback from the prof, instead of just using bottom nav, we decided to also use nav drawer. The feedback was told that it didn't make sense to have the buildings in the bottom nav as what if there were like 10 buildings. What we decided to do was implement a nav drawer to contain all the buildings. With each building containing rooms, we implemented image buttons to represent the rooms, with some being occupied and vacant. The occupied ones will need a code to access it, made a dummy code just for testing purposes. Once the code is entered, it will bring us into a different fragment container, containing all the room settings that can be viewed and changed. This fragment container has the bottom navigation, where we can swipe between different room settings. All the room settings have basic images/buttons/texts with no functionality. Also implemented a back arrow to go from the room settings fragment back to the buildings fragment. Made a database, menu, and app settings.

A Table Records of the Daily Stand-Ups

~	 Deliverable2 Meetings 												
	ltem		Presented by	Topic description	Attendees	Priority	Date & Time ①	Allocated time					
	Assign Android Tasks	⊕	9	Assign sections of code	C +2	High	Sun, Oct 6, 10:00 AM	30 minutes					
	Assign pdf and ppt tasks	Ð	9	Review documentation	C +2	High	Mon, Oct 7, 1:30 PM	15 minutes					
	Final Meeting For Deliverable 2	Ð	9	Discuss What is left to do X	C +2	Medium	Tue, Oct 8, 8:00 AM	20 minutes					
П	+ Add item												

Document of Design Principle

```
private void navigateToRoomSettings() {
    RoomSettingsFragment roomSettingsFragment = new RoomSettingsFragment();

    getActivity().getSupportFragmentManager()
        .beginTransaction()
        .replace(R.id.tbdFlFragment, roomSettingsFragment)
        .addToBackStack(null)
        .commit();
}
```

Made a function that will take me to the RoomSettingsFragment. This follows one of the design principles of not repeating yourself. If you find yourself writing a block of code more than twice, turn it into a method.