CENG-322
Deliverable 3

Team Name: TBD

Project Name: Smart Library Study Room Management and Comfort System

Group: 2

Members:
Mathew Anderson-Saavedra N01436706
Medi Muamba Nzambi N01320883
Safah Virk N01596470

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Members Info And Participation

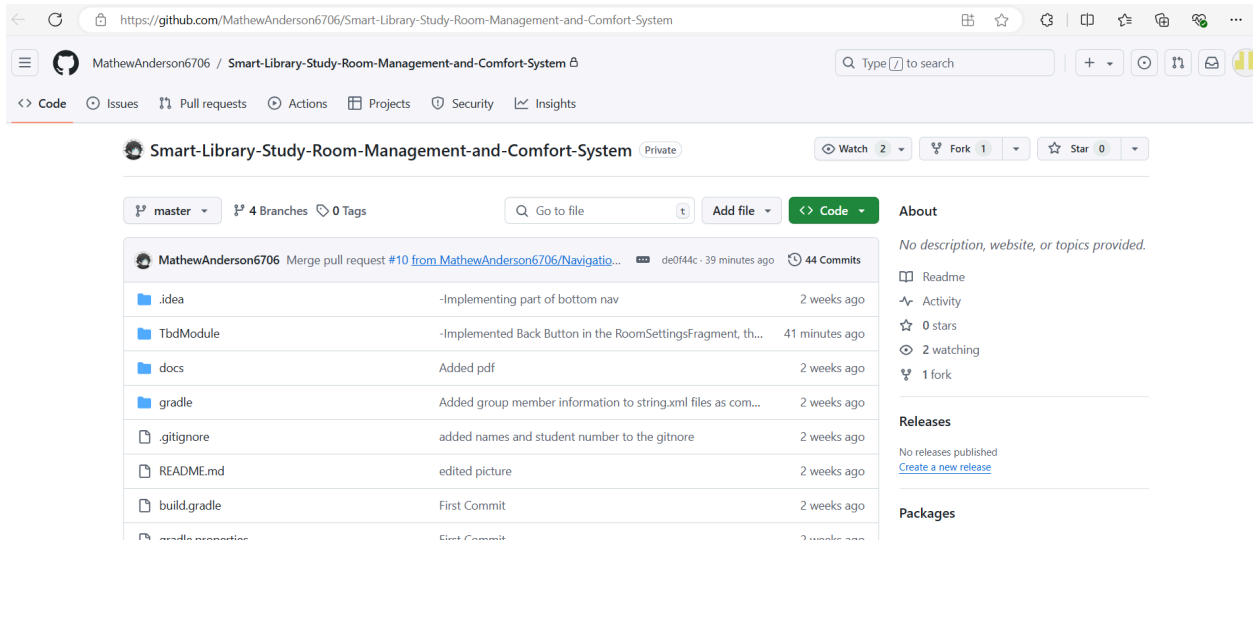| Name	Student ID	Github ID	Signature	Effort
Medi Muamba Nzambi	N01320883	MediMuamba0883	Signed by MediMuamba	70
Mathew Anderson-Saavedra	N01436706	MathewAnderson6706	Signed by Mathew A	90
Safah Virk	N01596470	Safahvirk6470	Signed by Safah Virk	70

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

Login Functionality & Database

11. Login functionality, I will use the following credentials to test your app:
Email: aaa@bbb.com Password: Admin101!

12. Document any other login credentials I should use i.e. Admin vs. regular user. I should not need to send you an email to login to your app.

13. Verify you had created an account in the DB with credentials above. Take a screenshot showing the account above in the DB.
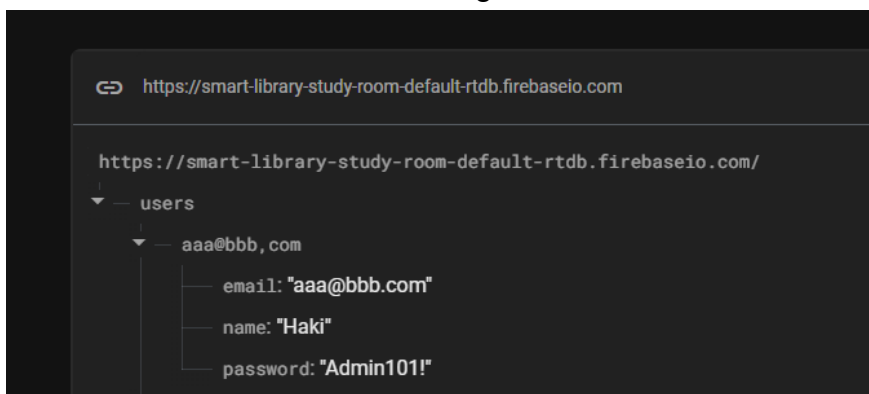
14. Take screenshot showing the account above as below:

15. The app must support login by creating an account using your app, or using their Gmail account.

16. Screenshot showing the Authentication and users logged in using Gmail or their email accounts, i.e. below:

Sprint Goals, Description, and Work Completed

17. You are working on sprint 3.

18. Describe in detail, the work that has been completed by each team member in this sprint only.

Mathew has worked on the following:
- Changed Login from a Fragment to an Activity
- Fixed a bug in RoomSettingsFragment
- Correctly implement NavigationDrawer with design
- Implemented Toolbar that goes across needed fragments
- Added text on every room button
- Updated NaviationDrawer with profile and feedback buttons
- Created and designed User Profile and Feedback Fragment
- Connected Login/Registration Activities to the database to read/write
- Managed each Team member, assigning them tasks and asking for updates(Which was put on Monday.com)
- Called for meetings/Daily Stand-Ups
- Worked on Deliverable 3 Document

Medi has worked on the following:
- Updated and Finished Gannt Chart
- Added links to Fragments in options menu
- Added image assets to the project
- Completed Settings Screen design
- Updated images to correctly match the function in NavigationDrawer and Menu
- Updated RoomButton images
- Lock screen to portrait works(Only in settings)
- Changed all building fragments background for better flow
- Worked on Deliverable 3 Document

Safah has worked on the following:
- Connected firebase to the project
- Created and Designed Registration Activity
- Redesigned Login Activity
- Fixed bugs on login/registration Screen
- Removed all hard coding

Nicole has worked on the following(before dropping the program):
- Put Buildings into a group in Navigation Drawer
- Added Settings/logout button in the Navigation Drawer
- Was working on Portrait/Landscape layouts before dropping out

Sprint goals

- Complete required screens(Registration, feedback, UserProfile,
- Complete design of all screens
- Finish all implementations
- Finish all database reads/writes

Sprint dashboard

Database

	Task		Owner	Status		Due date		Priority	Notes	Timeline		Size	
☐	Create Database	⊕	DM	Done	⊘	Oct 8		Critical ⚠		! Oct 4 - 8		Small	
☐	Connected to firebase	⊕	DM	Done				High		✔ -		Small	
☐	Implement Database into R...	⊕	MA	Done	✔	Nov 5		High		✔ Nov 5		Medium	
☐	Implement Database into L...	⊕	MA	Done	✔	Nov 5		High		✔ Nov 5		Medium	
☐	+ Add task												
						Oct 8 - Nov 5				Oct 4 - Nov 5			

Fixing Toolbar/Menu

	Task		Owner	Status		Due date		Priority	Notes	Timeline		Size	
☐	Add Toolbar to buildings Fr...	⊕	MA	Done	⊘	Oct 22		High		! Oct 21 - 22		Small	
☐	Implement menu onto the ...	⊕	MA	Done	⊘	Oct 22		High		! Oct 21 - 22		Small	
☐	Change Coloring on Menu I...	⊕		Stuck	⊘	Oct 29		Low		! Oct 25 - 27		Small	
☐	Add run time permission p...	⊕		Working on it	⊘	Oct 29		Medium		! Oct 25 - 27		Large	
☐	Change logo for menu items	⊕		Done	⊘	Oct 29		Low		! Oct 25 - 27		Small	
☐	Fix BackButton on RoomSe...	⊕	MA	Done	⊘	Oct 22		Medium		! Oct 22		Medium	
☐	Add Feedback button	⊕	DM	Done	⊘	Oct 29		Low		! Oct 26 - 29			
☐	+ Add task												
						Oct 22 - 29				Oct 21 - 29			

Settings Screen

	Task		Owner	Status		Due date		Priority	Notes	Timeline		Size	
☐	Implement lock screen to p...	⊕		Working on it	⊘	Oct 28		Medium		! Oct 25 - 27		Medium	
☐	Implement Notifications E...	⊕		Done	⊘	Oct 28		Medium		! Oct 25 - 27		Medium	
☐	Change Theme (Light/Dark...	⊕		Working on it	⊘	Oct 28		Medium		! Oct 25 - 27		Medium	
☐	Change Font Size	⊕		Working on it	⊘	Oct 28		Medium		! Oct 25 - 27		Medium	
☐	+ Add task												
						Oct 28				Oct 25 - 27			

⌂ Main Table +

New task ⌄ | 🔍 Search | 👤 Person | ▽ Filter ⌄ | ↑↓ Sort | 👁 Hide | ▣ Group by | ⋯

⌄ Sliding Window/Navigation Drawer

	Task		Owner	Status	ⓘ	Due date	ⓘ	Priority	Notes	Timeline	ⓘ	Size	
☐	Fix Incorrect implemntatio...	⊕	MA	Done	ⓘ	~~Oct 22~~		Low		! Oct 22		Small	
☐	Fix Drawer bug on RoomSe...	⊕	MA	Done	ⓘ	~~Oct 22~~		Medium		! Oct 22		Small	
☐	Put Buildings into a group	⊕	👤	Done	✓	~~Oct 25~~		Low		✓ Oct 24 - 25		Small	
☐	groups separted by a line	⊕	👤	Done	✓	~~Oct 25~~		Low		✓ Oct 24 - 25		Small	
☐	add settings screen to slidi...	⊕	👤	Done	✓	~~Oct 25~~		Low		✓ Oct 24 - 25		Small	
☐	add log out button(no func...	⊕	👤	Done	✓	~~Oct 25~~		Medium		✓ Oct 24 - 25		Small	
☐	settings button goes to set...	⊕	MA	Done	✓	~~Oct 25~~		Low		✓ Oct 25		Small	
☐	+ Add task												
						Oct 22 - 25				Oct 22 - 25			

⌄ Login Screen

	Task		Owner	Status	ⓘ	Due date	ⓘ	Priority	Notes	Timeline	ⓘ	Size	
☐	Turn Login Screen into an a...	⊕	MA	Done	✓	~~Oct 23~~		High		✓ Oct 23		Small	
☐	Add logo to login Screen	⊕	DM	Done	ⓘ	~~Oct 25~~		Low		✓ -		Small	
☐	Allow user to login using G...	⊕	DM	Done				Medium		✓ -		Small	
☐	Refer to step 25 in Delivera...	⊕	DM	Done				Medium		✓ -		Small	
☐	Must have a Remember me...	⊕	DM	Done				Low		✓ -		Small	
☐	+ Add task												
						Oct 23 - 25				Oct 23			

⌄ Registration Screen

	Task		Owner	Status	ⓘ	Due date	ⓘ	Priority	Notes	Timeline	ⓘ	Size	
☐	Create Regristration Acticty	⊕	DM	Done	ⓘ	~~Oct 25~~		High		✓ -		Small	
☐	Drop down list of schools f...	⊕	👤	Not Started	⊘	Oct 28		High		! Oct 26 - 28		Small	
☐	Refer to Deliverable 3, step...	⊕	👤	Not Started	⊘	Oct 28		High		! Oct 26 - 28		Medium	
☐	+ Add task												
						Oct 25 - 28				Oct 26 - 28			

safah (handwritten annotation)

User Profile Screen

	Task		Owner	Status		Due date		Priority	Notes	Timeline		Size
☐	Create User Profile Fragme...	⊕	MA	Done	✓	~~Oct 26~~		Medium		✓ Oct 25 - 26		Small
☐	Create basic design to allo...	⊕	MA	Done	⊙	~~Oct 26~~		Low		✓ Oct 25 - 27		Small
☐	Allow user to change their i...	⊕	MA	Not Started	⊙	Nov 1		Medium		-		Medium
☐	+ Add task											
						Oct 26 - Nov 1				Oct 25 - 27		

Feedback Screen

	Task		Owner	Status		Due date		Priority	Notes	Timeline		Size
☐	Create a feedback fragment	⊕	MA	Done	✓	~~Oct 26~~		Medium		✓ Oct 25 - 26		Small
☐	Use emojis or stars for the ...	⊕	MA	Done	✓	~~Oct 25~~		Low		✓ Oct 25 - 26		Small
☐	include name, phone numb...	⊕	MA	Done	✓	~~Oct 25~~		Low		✓ Oct 25 - 26		Small
☐	+ Add task											
						Oct 25 - 26				Oct 25 - 26		

Small Changes to Overall App

	Task		Owner	Status		Due date		Priority	Notes	Timeline		Size
☐	Fix Spacing Between room ...	⊕	MA	Done	✓	~~Oct 24~~		Low		✓ Oct 24		Small
☐	Create Green Vacant Imag...	⊕	MA	Done	✓	~~Oct 24~~		Low		✓ Oct 24		Small
☐	Create Red Vacant Images ...	⊕	MA	Done	✓	~~Oct 24~~		Low		✓ Oct 24		Small
☐	Design every screen to sup...	⊕	MA	Working on it	⊙	Oct 30		Medium		! Oct 27 - 30		Small
☐	Fix logo cutting on the top ...	⊕	MA	Not Started	⊙	Oct 25		Low		! Oct 24 - 25		Small
☐	Have a default Fragment in...	⊕	MA	Done	✓	~~Oct 23~~		Low		✓ Oct 23		Medium
☐	+ Add task											
						Oct 23 - 30				Oct 23 - 30		

Create Sheridan Fragments 3 Tasks

Sarah

	Task		Owner	Status		Due date		Priority	Notes	Timeline	Size	
☐	Create Building Fragments ...	⊕	👤	Not Started	⊙	Nov 2		Medium		! Nov 1 - 2	Small	
☐	Create Room Buttons for t...	⊕	👤	Not Started	⊙	Nov 2		Medium		! Nov 1 - 2	Small	
☐	Room buttons lead to roo...	⊕	👤	Not Started	⊙	Nov 2		Medium		! Nov 1 - 2	Small	
☐	+ Add task											
						Nov 2				Nov 1 - 2		

Leave this alone for now

Gantt Chart
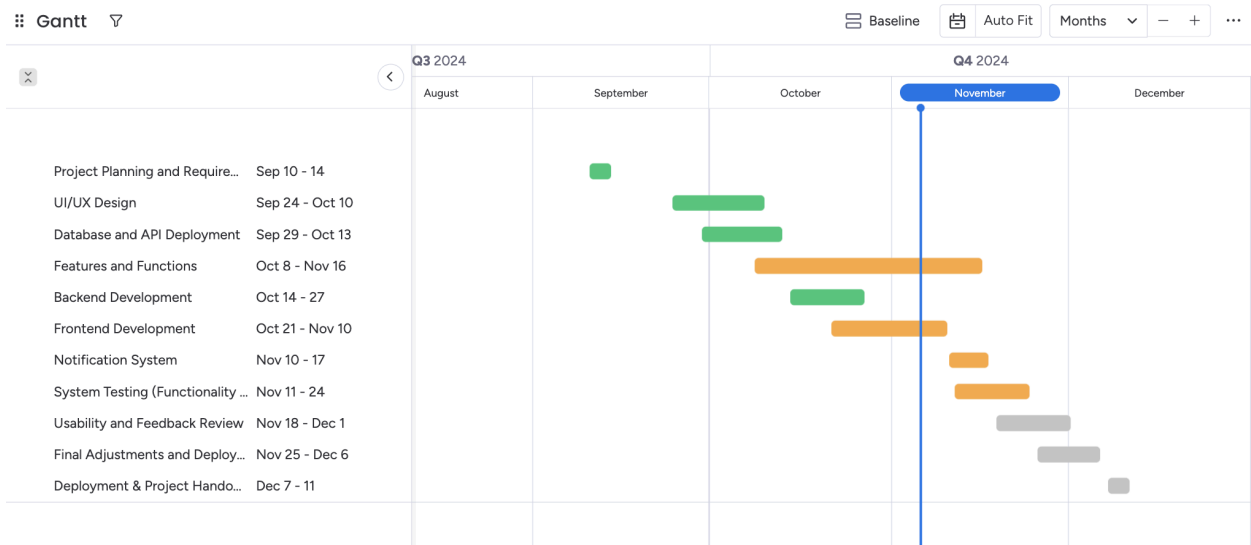
Baseline | Auto Fit | Months | − | +

		Q3 2024			Q4 2024		
		August	September	October	November	December

Project Planning and Require...	Sep 10 - 14					
UI/UX Design	Sep 24 - Oct 10					
Database and API Deployment	Sep 29 - Oct 13					
Features and Functions	Oct 8 - Nov 16					
Backend Development	Oct 14 - 27					
Frontend Development	Oct 21 - Nov 10					
Notification System	Nov 10 - 17					
System Testing (Functionality ...	Nov 11 - 24					
Usability and Feedback Review	Nov 18 - Dec 1					
Final Adjustments and Deploy...	Nov 25 - Dec 6					
Deployment & Project Hando...	Dec 7 - 11					

Gantt Chart Task Assignments

∨ To-Do

	Task		Status ⓘ	Timeline ⓘ	People	+
☐	∨ Project Planning and Re... 3	⊕	Done	! Sep 10 - 14	👤 +2	

	Subitem		Owner	Status	Date	+
☐	Define objectives and us...	⊕	MA			
☐	Research and select sens...	⊕	👤			
☐	Develop roadmap and ti...	⊕	MA 👤			
☐	+ Add subitem					

	Task		Status	Timeline	People	
☐	∨ UI/UX Design 1	⊕	Done	✓ Sep 24 - ...	MA 👤	

	Subitem		Owner	Status	Date	+
☐	Wireframes design for m...	⊕	👤 +2			
☐	+ Add subitem					

	Task		Status	Timeline	People	
☐	∨ Database and API Deplo... 1	⊕	Done	✓ Sep 29 - ...	MA 👤	

	Subitem		Owner	Status	Date	+
☐	Set up database schema ...	⊕	👤 MA			
☐	+ Add subitem					

	Task		Status	Timeline	People	
☐	∨ Backend Development 2	⊕	Done	✓ Oct 14 - 27	MA 👤	

	Subitem		Owner	Status	Date	+
☐	Set up authentication an...	⊕	MA	Done	Oct 8	
☐	Ensure error handling for ...	⊕	👤			
☐	+ Add subitem					

		Status	Date	
⌄ Frontend Development 3	⊕	Working on it	Oct 21 - Nov 10	⊙

Subitem		Owner	Status	Date	+
Implement screen for roo...	⊕	MA			
Develop display features ...	⊕	👥			
User alerts and notificati...	⊕	👤			
+ Add subitem					

			Status	Date
Features and Functions	⊕	Working on it	Oct 8 - Nov 16	👤 +2
System Testing (Functional...	⊕	Working on it	Nov 11 - 24	👤 +2
⌄ Notification System 2	⊕	Working on it	Nov 10 - 17	⊙

Subitem		Owner	Status	Date	+
Alert triggers and conditi...	⊕	👤			
Notification delivery syst...	⊕	👤			
+ Add subitem					

		Status	Date	
Usability and Feedback Re...	⊕	Not Started	Nov 18 - Dec 1	⊙
› Final Adjustments and D... 2	⊕	Not Started	Nov 25 - Dec 6	👤 +2
› Deployment & Project H... 1	⊕	Not Started	Dec 7 - 11	👤 +2
+ Add task				
			Sep 10 - Dec 11	👤 +2

Daily Standups

Oct 24th 2024

Column 1 — Mathew Anderson

Name ...

What did you work on YESTERDAY? ∧

Assignee	MA	Mathew Anderson-Saavedra
Status		Add status
Due Date		Add date
People	👤	None

+ Add property

Description
-Changed Login from a Fragment to an Activity
-Fixed bug where default fragment would not show in RoomSettingsFragment
-Implemented new design for the navigation drawer
-Implemented Toolbar onto MainActivity
-Removed old toolbar from roomSettingsFragment

Created by Mathew Anderson-Saavedra

What will you do TODAY? ∧

Assignee	👤	None
Status		Add status
Due Date		Add date

+ Add property

Description
-Add text onto all room image buttons(Room name, vacant/occupied)
-Fix Logo cutting on the top/bottom
-Figure out complete design of the roomSettingsFragment

Created by Mathew Anderson-Saavedra

Any BLOCKERS? ∧

Assignee	👤	None
Status		Add status
Due Date		Add date

+ Add property

Description
No Blockers

Created by Mathew Anderson-Saavedra

Column 2 — Nicole

Name ...

What did you work on YESTERDAY? ∧

Assignee	NM	Nicole Chlea Manacat
Status		Add status
Due Date		Add date
People	👤	None

+ Add property

Description
Reviewing Deliverable 3

Created by Mathew Anderson-Saavedra

What will you do TODAY? ∧

Assignee	👤	None
Status		Add status
Due Date		Add date

+ Add property

Description
-Fix Spacing Between room images
-Put Buildings into a group for the Navigation Drawer
-Make groups separted by a line
-Add settings screen button and log out button to the drawer(no functionality yet)

Created by Mathew Anderson-Saavedra

Any BLOCKERS? ∧

Assignee	👤	None
Status		Add status
Due Date		Add date

+ Add property

Description
No blockers

Created by Mathew Anderson-Saavedra

Column 3 — Safah

Name ...

What did you work on YESTERDAY? ∧

Assignee	S	Safah
Status		Add status
Due Date		Add date
People	👤	None
Text		Add text

+ Add property

Description
Learning about the project

Created by Mathew Anderson-Saavedra

What will you do TODAY? ∧

Assignee	👤	None
Status		Add status
Due Date		Add date

+ Add property

Description
-Connect the database
-Create Regristration Activity
-Add logo to Login Screen

Created by Mathew Anderson-Saavedra

Any BLOCKERS? ∧

Assignee	👤	None
Status		Add status
Due Date		Add date

+ Add property

Description
No blockers

Created by Mathew Anderson-Saavedra

Column 4 — Medi

Name ...

What did you work on YESTERDAY? ∧

Assignee	👤	None
Status		Add status
Due Date		Add date
People	👤	None

+ Add property

Description
-Made changes to the gannt chart
-Started on the settings fragment

Created by Mathew Anderson-Saavedra

What will you do TODAY? ∧

Assignee	👤	None
Status		Add status
Due Date		Add date

+ Add property

Description
-Finish the gannt chart
-Continue on the settings Fragment
-Start on Feedback Fragment

Created by Mathew Anderson-Saavedra

Any BLOCKERS? ∧

Assignee	👤	None
Status		Add status
Due Date		Add date

+ Add property

Description
No blockers

Created by Mathew Anderson-Saavedra

Mathew
Role

Nicole
Role

Safah
Role

Medi
Role

Oct 25th 2024

Name   ...

What did you work on YESTERDAY? ∧

Assignee	👤	None
Status		Add status
Due Date	🗓	Add date
People	👤	None

+ Add property

Description

-Completed room button design
-

Created by Mathew Anderson-Saavedra

What will you do TODAY? ∧

Assignee	👤	None
Status		Add status
Due Date	🗓	Add date

+ Add property

Description

-Update Navigation Drawer to contain profile and feedback buttons
-Complete feedback fragment
-Start on User Profile Fragment

Created by Mathew Anderson-Saavedra

Any BLOCKERS? ∧

Assignee	👤	None
Status		Add status
Due Date	🗓	Add date

+ Add property

Description

No Blockers

Created by Mathew Anderson-Saavedra

Name   ...

What did you work on YESTERDAY? ∧

Assignee	👤	None
Status		Add status
Due Date	🗓	Add date
People	👤	None

+ Add property

Description

-Put navigation_drawer buttons into a group
-Added log out button(no functionality)
-Added settings button (no functionality)

Created by Mathew Anderson-Saavedra

What will you do TODAY? ∧

Assignee	👤	None
Status		Add status
Due Date	🗓	Add date

+ Add property

Description

-Design every screen to support Portrait & landscape layouts

Created by Mathew Anderson-Saavedra

Any BLOCKERS? ∧

Assignee	👤	None
Status		Add status
Due Date	🗓	Add date

+ Add property

Description

No blockers

Created by Mathew Anderson-Saavedra

Name   ...

What did you work on YESTERDAY? ∧

Assignee	👤	None
Status		Add status
Due Date	🗓	Add date
People	👤	None

+ Add property

Description

-Created registration Activity
-Added Logo to login screend

Created by Mathew Anderson-Saavedra

What will you do TODAY? ∧

Assignee	👤	None
Status		Add status
Due Date	🗓	Add date

+ Add property

Description

-Create design for regristation activity
-Finish design for login activity

Created by Mathew Anderson-Saavedra

Any BLOCKERS? ∧

Assignee	👤	None
Status		Add status
Due Date	🗓	Add date

+ Add property

Description

No blockers

Created by Mathew Anderson-Saavedra

Name   ...

What did you work on YESTERDAY? ∧

Assignee	👤	None
Status		Add status
Due Date	🗓	Add date
People	👤	None

+ Add property

Description

-Worked on Gantt Chart
-Worked on settings Screen

Created by Mathew Anderson-Saavedra

What will you do TODAY? ∧

Assignee	👤	None
Status		Add status
Due Date	🗓	Add date

+ Add property

Description

-Finish the settings Screen

Created by Mathew Anderson-Saavedra

Any BLOCKERS? ∧

Assignee	👤	None
Status		Add status
Due Date	🗓	Add date

+ Add property

Description

No blockers

Created by Mathew Anderson-Saavedra

Mathew Anderson
Role

Nicole
Role

Safah
Role

Medi
Role

Oct 29th 2024

Mathew Anderson column

Name ...

What did you work on YESTERDAY? ^

Assignee	MA Mathew Anderson-Saavedra
Status	Add status
Due Date	Add date
People	None

+ Add property

Description

-Nothing

Created by Mathew Anderson-Saavedra

What will you do TODAY? ^

Assignee	None
Status	Add status
Due Date	Add date

+ Add property

Description

-Reviewing Nicole and Safah's work
-Configure the Database
-Connect the Login/Registration fragments to the database

Created by Mathew Anderson-Saavedra

Any BLOCKERS? ^

Assignee	None
Status	Add status
Due Date	Add date

+ Add property

Description

No Blockers

Created by Mathew Anderson-Saavedra

Nicole column

Name ...

What did you work on YESTERDAY? ^

Assignee	NM Nicole Chlea Manaoat
Status	Add status
Due Date	Add date
People	None

+ Add property

Description

-Worked on Portrait and Landscape layouts

Created by Mathew Anderson-Saavedra

What will you do TODAY? ^

Assignee	None
Status	Add status
Due Date	Add date

+ Add property

Description

-Continue working the Portrait and Landscape Layouts

Created by Mathew Anderson-Saavedra

Any BLOCKERS? ^

Assignee	None
Status	Add status
Due Date	Add date

+ Add property

Description

No blockers

Created by Mathew Anderson-Saavedra

Safah column

Name ...

What did you work on YESTERDAY? ^

Assignee	S Safah
Status	Add status
Due Date	Add date
People	None
Text	Add text

+ Add property

Description

-Completed Sign Up/Registration Screen(no functions yet)

Created by Mathew Anderson-Saavedra

What will you do TODAY? ^

Assignee	None
Status	Add status
Due Date	Add date

+ Add property

Description

-add drop down
-Create 2 building fragments for Sheridan

Created by Mathew Anderson-Saavedra

Any BLOCKERS? ^

Assignee	None
Status	Add status
Due Date	Add date

+ Add property

Description

-No blockers

Medi column

Name ...

What did you work on YESTERDAY? ^

Assignee	None
Status	Add status
Due Date	Add date
People	None

+ Add property

Description

Did not attend

Created by Mathew Anderson-Saavedra

What will you do TODAY? ^

Assignee	None
Status	Add status
Due Date	Add date

+ Add property

Description

Did not Attend

Created by Mathew Anderson-Saavedra

Any BLOCKERS? ^

Assignee	None
Status	Add status
Due Date	Add date

+ Add property

Description

Did not Attend

Created by Mathew Anderson-Saavedra

Design Principles

37. Document two different design principles used in the code.
Copy the code you used, and add your explanations.

We used both KISS and SRP in our project. Made our code simple and readable, and made sure to separate functions into different classes.

```java
package ca.tbd.it.smartlibrarystudyroommanagementandcomfortsystem;

public class HelperClass {

    String name, email, password;

    public String getName() {
        return name;
    }

    public void setName(String name) {
        this.name = name;
    }

    public String getEmail() {
        return email;
    }

    public void setEmail(String email) {
        this.email = email;
    }

    public String getPassword() {
        return password;
    }

    public void setPassword(String password) {
        this.password = password;
    }

    public HelperClass(String name, String email, String password) {
        this.name = name;
        this.email = email;
        this.password = password;
    }

    public HelperClass() {
```

```
        }
}
```

Coding progress since deliverable 2

- Since deliverable 2, we have implemented the runtime permission which we were not able to complete in deliverable 2.
- We worked on fixing the toolbar menu and from the feedback given on deliverable 2, we changed the logo for the menu items.
- The settings screen was completely redone to implement a lock to portrait mode, notification enabling, changing the theme from dark to light, and changing the font size.
- Implemented login functionality so that the app takes other login credentials other than admin. Linked the database so the credentials can be stored in the database.
- Completed the registration screen implementation with required fields apart for the phone number field. The only access to registration is through the login screen.
- UI/UX design for screens.

Runtime Permissions

39. Document what runtime permission you have implemented.

40. Runtime permission, copy the code and comment on it. Do not use deprecated APIs.

Did not complete

Two Main functionality implemented this release

- Login/Register from Database
- Updated UI

Custom feedback in DB

42. Provide screenshot how the data from the Customer
Feedback Screen stored in the DB. See example.

Did not Complete