TeamSafeSmartHome_SafeSmartHome_Deliverable_3

Team Safe Smart Home

Safe Smart Home

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Brief Project Description

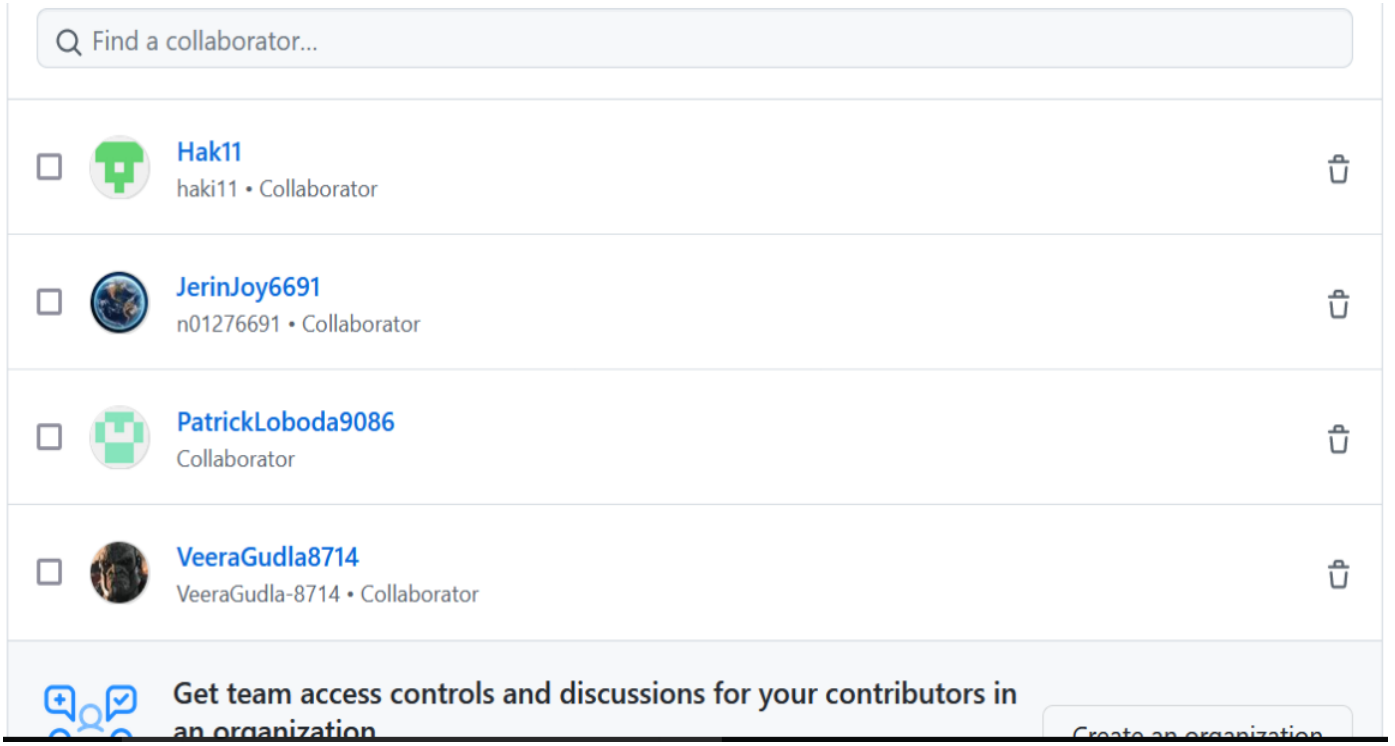
The application is an android Safe Smart Home app, that will be used to help people cohabitate and be safe to prevent any form of threats in a household. The project also aims to make life easier for those with disabilities, seniors, children and others. For this project, we will be building an app and hardware that is easy to use by everyone, and will allow many people to safely cohabitate; using smart home technologies such as automation, sensors and other means to prevent injuries and keep the home safe. The similar projects on the market are all smart home projects. We plan on doing a safe smart home project which is different from the other projects on the market, because our emphasis will be the safe element/component of the smart home.

Signatures/Effort Table

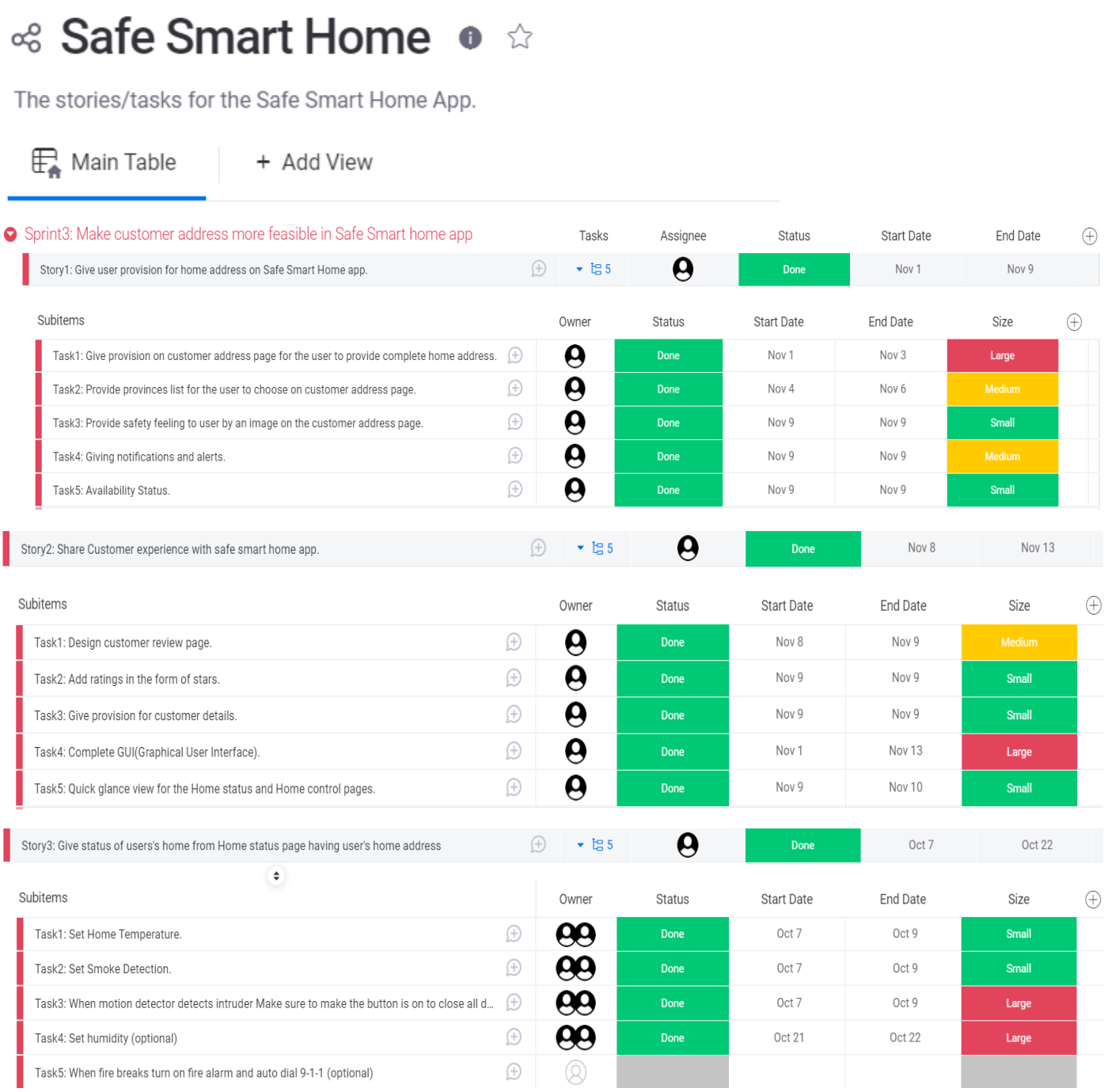
Name	ID	Signature	Effort
Jacob Stephens	n01100888	Jacob Stephens	100%
Veera Gudla	n01218714	Veera Gudla	100%
Patrick Loboda	n01309086	Patrick Loboda	100%

GitHub Repository Link

https://github.com/jacobStephens0088/SAFESMARTHOME



Scrum Board Stories/Tasks



Story4: Set custom user profile.	5		Done	Nov 6	Nov 10

Subitems	Owner	Status	Start Date	End Date	Size
Task1: Set custom profile based on time.		Done	Nov 6	Nov 7	Small
Task2: Allow multiuser support.		Done	Nov 6	Nov 7	Small
Task3: Give temporary access to guests.(Optional)					
Task4: Allow custom minor changes to settings.		Done	Nov 6	Nov 7	Small
Task5: Display recommendations based on the user.		Done	Nov 9	Nov 10	Small

Sprint4: Make all required features available for the user for home safety.

	Tasks	Assignee	Status	Start Date	End Date
Story 1: Make SecureID as the unique ID to identify users home address	5		Working on it	Nov 8	

Subitems	Owner	Status	Start Date	End Date	Size
Task 1: When new secureID entered as login attempt by user, home address to be written to firebase db.		Working on it	Nov 10		Large
Task2: When secureID already written to firebase db is entered by user, home address should be read from firebase db onto customer address page.		Working on it	Nov 10		Large
Task3: When user logs in from login page and navigates to customer address page, user should not be allowed back to login page.		Working on it			Large
Task 4: Username and password on login page to be made as Gmail address.		Done	Nov 8	Nov 8	Medium
Task5: When click on login button on login page user with right credentials should be able to navigate to customer address page.		Working on it	Nov 11		Large

Story2: Make sure minimum features available for user's home safety on Home Control page.	5		Working on it		

Subitems	Owner	Status	Start Date	End Date	Size
Task1: When temperature is above 20degrees Celsius, turn on AC and below 20degrees turn on heat.		Working on it	Nov 10		Medium
Task2: When smoke detected turn on exhaust fan.		Working on it	Nov 10		Medium
Task3: When someone tries to break into home detected using motion detector, turn on button to close all doors and windows of the home.		Working on it	Nov 10		Medium
Task4: Turn off humidity control as this is optional.					
Task5: When fire breaks auto dial 9-1-1 is tuned off as this is optional.					

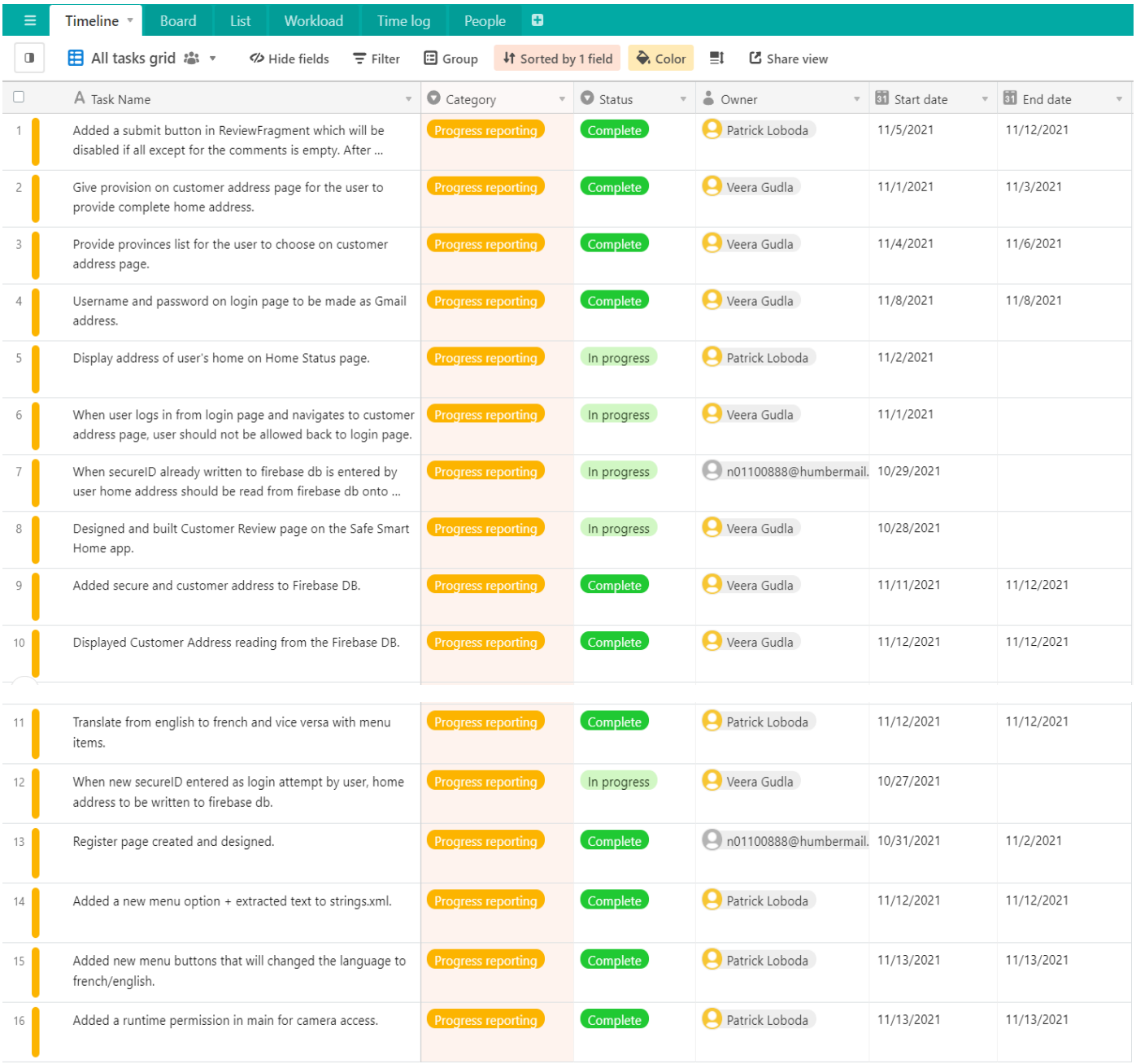
Story3: Make sure Humidity/Fire page of App has provision for additional features for user's home safet...	5		Working on it	Oct 13	

Subitems	Owner	Status	Start Date	End Date	Size
Task1: Set Humidity control.		Working on it	Nov 11		Small
Task2: Set Fire alarm.		Working on it	Nov 11		Small
Task3: Adding 2 images on Humidity/Fire app page to provide better feeling on home safety for the user by taking additional features.		Done	Oct 13	Oct 13	Small
Task4: When fire breaks into the home, turn on auto dial 9-1-1.					
Task5: When humidity is high, turn on AC.		Working on it	Nov 11		Small

Story4: Allow different users	5		Done	Nov 8	Nov 8	

Subitems	Owner	Status	Start Date	End Date	Size
Task1: Change password		Done	Nov 8	Nov 8	Small
Task2: Change username		Done	Nov 8	Nov 8	Small
Task3: Change email address		Done	Nov 8	Nov 8	Small
Task4: Set a profile picture.					
Task5: Renaming profile.					

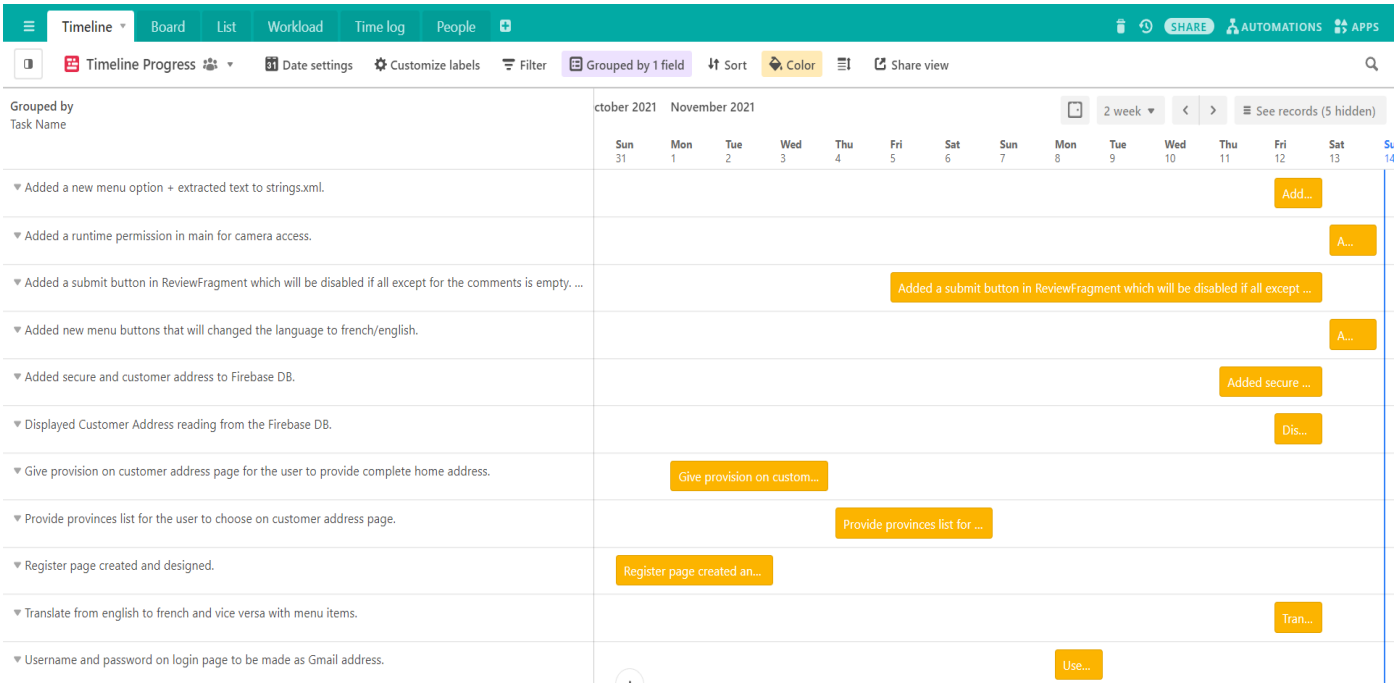
Gantt Chart



Timeline | Board | List | Workload | Time log | People

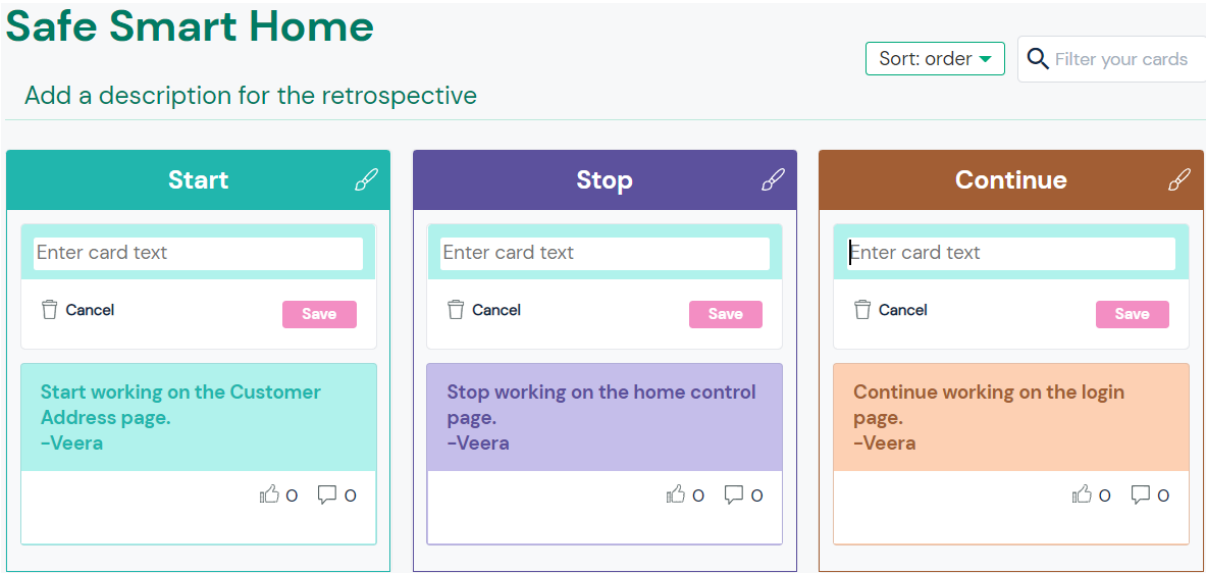
All tasks grid | Hide fields | Filter | Group | Sorted by 1 field | Color | Share view

	Task Name	Category	Status	Owner	Start date	End date
1	Added a submit button in ReviewFragment which will be disabled if all except for the comments is empty. After ...	Progress reporting	Complete	Patrick Loboda	11/5/2021	11/12/2021
2	Give provision on customer address page for the user to provide complete home address.	Progress reporting	Complete	Veera Gudla	11/1/2021	11/3/2021
3	Provide provinces list for the user to choose on customer address page.	Progress reporting	Complete	Veera Gudla	11/4/2021	11/6/2021
4	Username and password on login page to be made as Gmail address.	Progress reporting	Complete	Veera Gudla	11/8/2021	11/8/2021
5	Display address of user's home on Home Status page.	Progress reporting	In progress	Patrick Loboda	11/2/2021	
6	When user logs in from login page and navigates to customer address page, user should not be allowed back to login page.	Progress reporting	In progress	Veera Gudla	11/1/2021	
7	When secureID already written to firebase db is entered by user home address should be read from firebase db onto ...	Progress reporting	In progress	n01100888@humbermail.	10/29/2021	
8	Designed and built Customer Review page on the Safe Smart Home app.	Progress reporting	In progress	Veera Gudla	10/28/2021	
9	Added secure and customer address to Firebase DB.	Progress reporting	Complete	Veera Gudla	11/11/2021	11/12/2021
10	Displayed Customer Address reading from the Firebase DB.	Progress reporting	Complete	Veera Gudla	11/12/2021	11/12/2021
11	Translate from english to french and vice versa with menu items.	Progress reporting	Complete	Patrick Loboda	11/12/2021	11/12/2021
12	When new secureID entered as login attempt by user, home address to be written to firebase db.	Progress reporting	In progress	Veera Gudla	10/27/2021	
13	Register page created and designed.	Progress reporting	Complete	n01100888@humbermail.	10/31/2021	11/2/2021
14	Added a new menu option + extracted text to strings.xml.	Progress reporting	Complete	Patrick Loboda	11/12/2021	11/12/2021
15	Added new menu buttons that will changed the language to french/english.	Progress reporting	Complete	Patrick Loboda	11/13/2021	11/13/2021
16	Added a runtime permission in main for camera access.	Progress reporting	Complete	Patrick Loboda	11/13/2021	11/13/2021


Timeline
Board
List
Workload
Time log
People
SHARE
AUTOMATIONS
APPS
Timeline Progress
Date settings
Customize labels
Filter
Grouped by 1 field
Sort
Color
Share view
Grouped by
Task Name
ctober 2021
November 2021
2 week
See records (5 hidden)
Sun 31
Mon 1
Tue 2
Wed 3
Thu 4
Fri 5
Sat 6
Sun 7
Mon 8
Tue 9
Wed 10
Thu 11
Fri 12
Sat 13
Added a new menu option + extracted text to strings.xml.
Added a runtime permission in main for camera access.
Added a submit button in ReviewFragment which will be disabled if all except for the comments is empty. ...
Added new menu buttons that will changed the language to french/english.
Added secure and customer address to Firebase DB.
Displayed Customer Address reading from the Firebase DB.
Give provision on customer address page for the user to provide complete home address.
Provide provinces list for the user to choose on customer address page.
Register page created and designed.
Translate from english to french and vice versa with menu items.
Username and password on login page to be made as Gmail address.
Add...
A...
Added a submit button in ReviewFragment which will be disabled if all except ...
A...
Added secure ...
Dis...
Give provision on custom...
Provide provinces list for ...
Register page created an...
Tran...
Use...

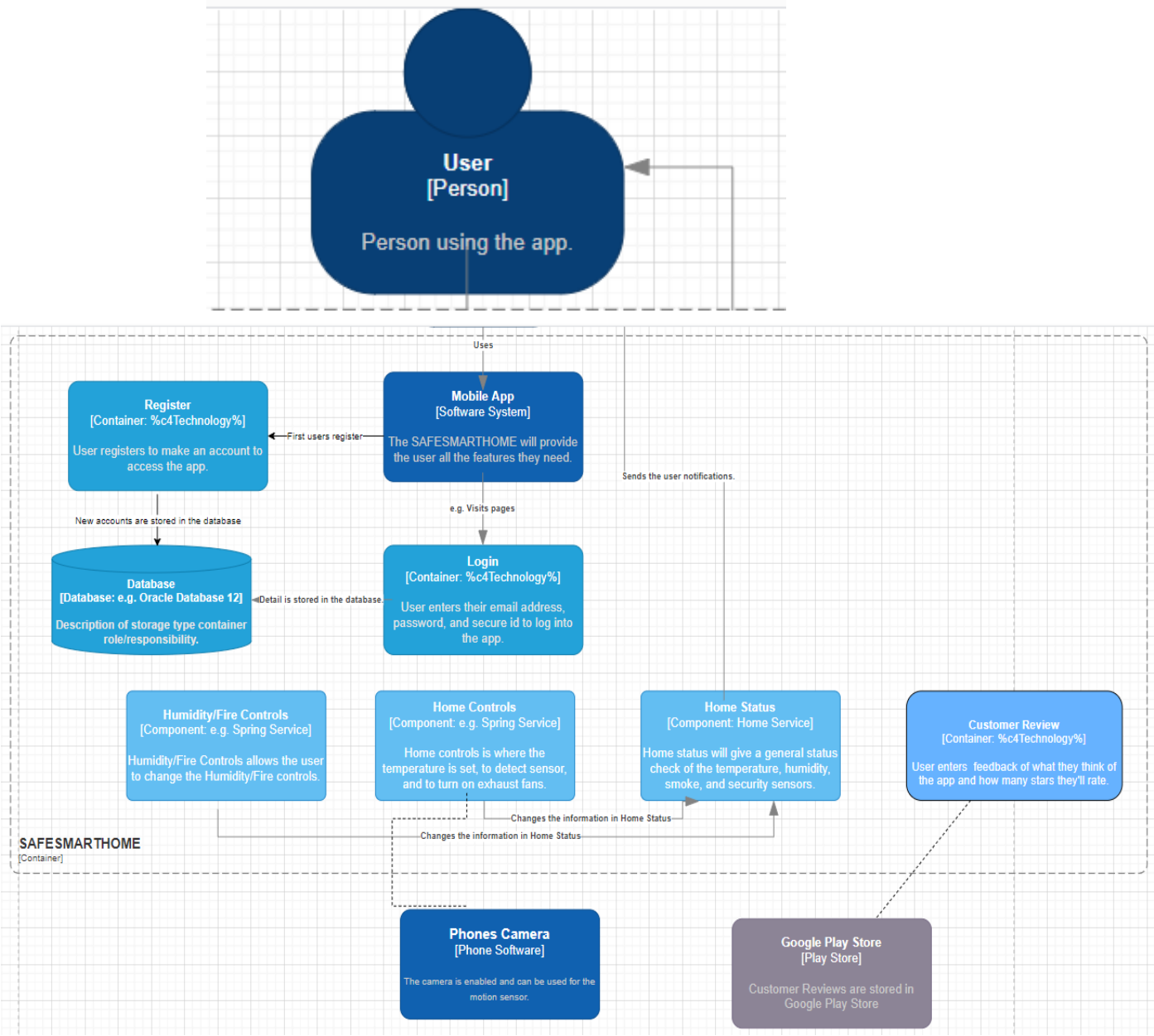
Daily Stand-ups

Sprint Retrospective



https://app.goretro.ai/dashboard/public-board/skZDPygAjRHM1A9RT0hB5EWctC3DdgqZBm3pQdXrO9hcCe1Td2

C4 Model


User
[Person]
Person using the app.
Uses
Register
[Container: %c4Technology%]
User registers to make an account to access the app.
First users register
Mobile App
[Software System]
The SAFESMARTHOME will provide the user all the features they need.
Sends the user notifications.
New accounts are stored in the database
e.g. Visits pages
Database
[Database: e.g. Oracle Database 12]
Description of storage type container role/responsibility.
Detail is stored in the database.
Login
[Container: %c4Technology%]
User enters their email address, password, and secure id to log into the app.
Humidity/Fire Controls
[Component: e.g. Spring Service]
Humidity/Fire Controls allows the user to change the Humidity/Fire controls.
Home Controls
[Component: e.g. Spring Service]
Home controls is where the temperature is set, to detect sensor, and to turn on exhaust fans.
Home Status
[Component: Home Service]
Home status will give a general status check of the temperature, humidity, smoke, and security sensors.
Customer Review
[Container: %c4Technology%]
User enters feedback of what they think of the app and how many stars they'll rate.
Changes the information in Home Status
Changes the information in Home Status
SAFESMARTHOME
[Container]
Phones Camera
[Phone Software]
The camera is enabled and can be used for the motion sensor.
Google Play Store
[Play Store]
Customer Reviews are stored in Google Play Store

2 Design principles/patterns

Design Principles: -KISS(Keep it Simple and Stupid)

-Single Responsibility

Design Patterns: -Builder

-Adapter

Additional features/functionalities added since deliverable_2

-Added spinner dropdown list for the provinces on the customer address page. When the province is selected from the dropdown list, the province full name will be displayed as a snackbar message.

-Added the secureID and customer address to the Firebase DB shown below: When the 9-digit SecureID is entered and click on the register button on the login page, it will be written to Firebase DB and navigates to the Customer Address page, when the Customer Address is entered and click on the insert button, the Customer Address will be written to the Firebase DB.

-When the gmail address, password, and SecureID as 555666100 are entered on the login page and click on the login button, it navigates to the customer address page and customer address will be displayed on the customer address page reading from the Firebase DB.

-Added the customer review page with the customer rating in the form of stars.

-Note: When the Safe Smart Home app is cloned from GitHub and incase when running the app gives the “SDK location not found” error, then it needs to be cloned again from GitHub.