# CENG-322 Deliverable 2

# The Automators

# Smart Home Automation Project

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#### Contents

| Brief Description of the project   | 3   |
|--|-----|
| Member Participation   | 3   |
| Git Hub Repo link  | 3   |
| Screenshot - Git invitation  | 4   |
| Dashboard for story and tasks  | 5   |
| Definition of Done   | 7   |
| Business Model Canvas  | 8   |
| Database Created Screen Shot   | 9   |
| Coding work progress since deliverable 1. What additional features/functionality added since deliverable 1 |     |
| Daily stand-ups  | .10 |

#### Brief Description of the project.

Our Project goal is to make a complete Smart home system, which consists of multiple hardware applications in one model. From our android app, the user can control and check the status of the sensors and devices. The main objective of the system is to improve the quality of life and convenience in the home. Further goals are greater security and more efficient use of energy, along with remotely-controllable devices. This product saves time by streamlining device control and also provides energy-efficient solutions. This cost-efficient system could also be adapted for commercial and industrial settings.

# **Member Participation**

| Name              | Id        | Signature | Effort |
|-------------------|-----------|-----------|--------|
| Naveen Kumar      | N01355935 | Naveen    | 100%   |
| James Ricci       | N00411900 | James     | 100%   |
| Gaganajeet Hanny  | N01350705 | GSingh    | 100%   |
| Sukhmanpreet Kaur | N01355022 | sukhman   | 100%   |

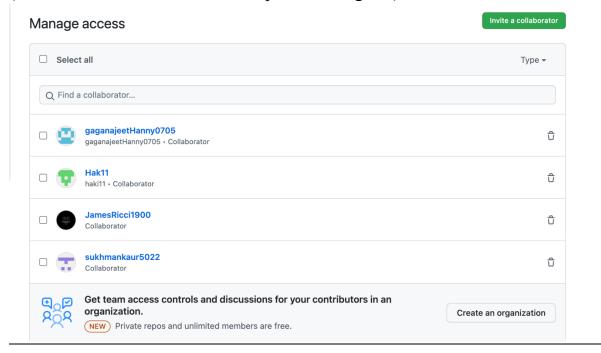
## Git Hub Repo link -

https://github.com/naveenKumar5935/smartHomeAutomation.git

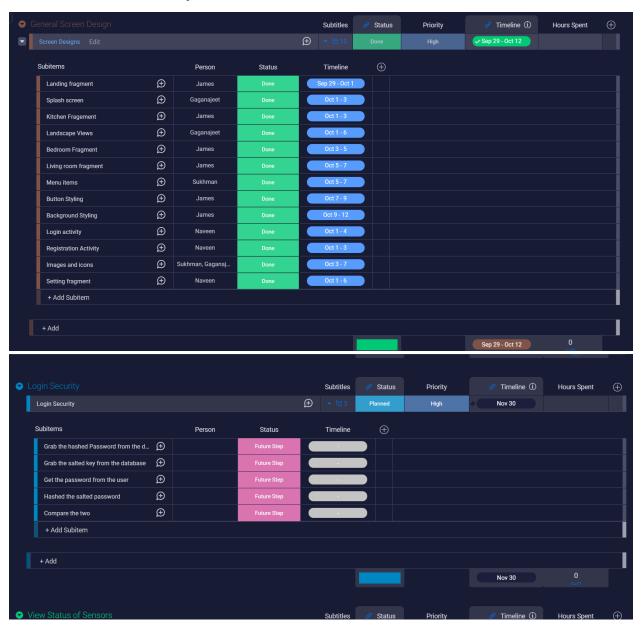
We created three extra branches - gagan, sukhman and layout design. All three make changes on their respective branches and changes are confirmed by naveen and james to merge with master branch.

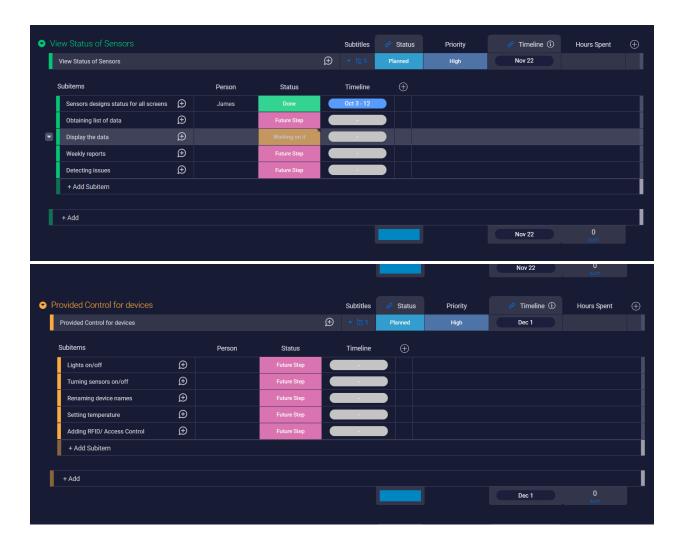
## Screenshot - Git invitation

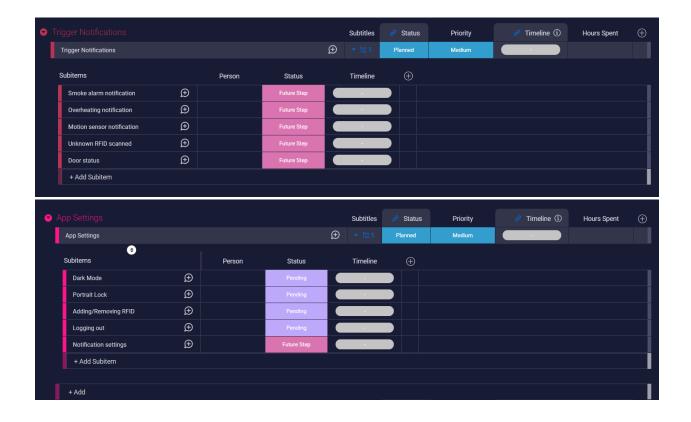
(We asked Ali Maki but he didn't provide the git id)



# Dashboard for story and tasks







#### **Definition of Done**

Story - General Screen Design

Tasks - Completed

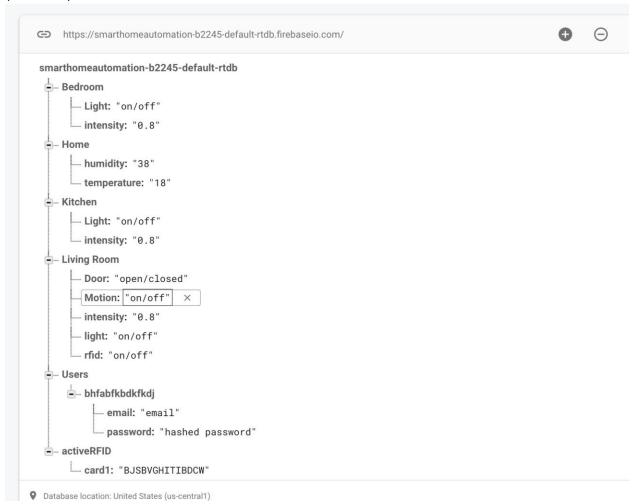
- Designed all the screens, icons, images, styles, fonts
- As per deliverable 2 all requirements were fulfilled
- Updated monday.com to confirm the task completion
- Project builds without errors
- Features are tested on different sizes of screens
- Documentation updated
- Teammates code reviewed

# **Business Model Canvas**

|  |  | Designed for:   | Designed by:  | Date:  | Version |  |
|--|--|---|---|--|---------|--|
| Business Model Canvas  |  | Smart Home Automation   | S.H.A. Team   | 10/12/21   | 1       |  |
| Key Partners  - Technology Partners - Investors - Humber College - Home Builders       | Competitive pricing     Providing more     customizable options     to the user     24*7 technical support     | Value Propositions  - Ease of use  - Home security  - Weekly status reports  - New tech  - All in one design  - Notification of safety issues like heat or smoke  - Control of lights, even when not home | Customer Relationships - Support through email - mainly self serve  | Customer Segments  - Homeowners  - Small business owners  - People who want control of their home/office devices like lights and senso  - People with disabilities |         |  |
|  | Key Resources  - App for users  - Access to network/Firebase  - Engineers to maintain backend systems and code |   | Channels - Google play store with high ratings - Word of mouth - Social media   |  |         |  |
| Cost Structure  - Platform maintenance  - Hardware  - Installation  - R&D  - Marketing |  | - Hardwa<br>- Future a<br>- Installat   | Revenue Streams  - Hardware system  - Future ad space in app  - Installation charges  - Repairing faulty hardware such as sensors |  |         |  |

#### **Database Created Screen Shot**

(Firebase)



# Coding work progress since deliverable 1. What additional features/functionality added since deliverable 1.

In deliverable 1 we implemented the activity and fragments with proper names and locations. The back key and display alert dialog code were also added. In deliverable 2, we designed the configuration screen and included some features. Splash screen with code to appear for 3 seconds. Implemented login and register activity code to move directly to landing page. Landing page now routes to proper fragments on click. On the setting fragment, runtime permission is added to access photos and media to change the profile pic of the user. Furthermore, snackbar for

runtime permission granted or denied. Switches now show visual indicator of state of control for lights and door.

## Daily stand-ups

2021-09-30 Thursday at 2:20 pm

Selected meeting days and time

- · Sunday 8:00 pm
- · Monday 3:00 pm
- · Tuesday 11:30 am (in-person)
  - Discussed the deliverable 2 and start working on it by splitting work
  - Read feedback of deliverable 1 and discussed the mistakes.

James: Landing, Bedroom, Kitchen, Living Room

Naveen: Setting Screen

Gaganajeet: Splash Screen

Sukhman: Stories, tasks and Monday.com

2021-10-03 Sunday – 8:30 pm

- Landing page instead of Home page
- Dark mode
- Discussed what we have finished and assigned work for next meeting
- Login screen should be done ASAP
- Have to complete the missing things from deliverable1
- Ali Maki github id

James: Landing, Bedroom, Kitchen, Living Room

Naveen: Runtime, Settings

Gagan: Images, Tab icons

Sukhman: English and French, Menu tab and overflow items

#### 2021-10-04 Monday- 3:00pm

- Discussed the stories
- Yellow means done
- Green Naveen
- Red Gagan
- Blue Sukhman
- Purple James
- Orange how so ever will not have 5 commits

#### 2021-10-10 Sunday - 8:02 pm

- Went through the deliverable to check all the steps are completed
- Discussed the time for next meeting
- Make sure that everyone is on right track

#### 2021-10-12 Tuesday 12:30 pm

- Discussed what is left and what needs to be changed as per the requirements.
- Discussed DOD and business canvas model.
- Completed Business canvas model during the meeting.