

# CENG-322

## Deliverable 2

The Automators

Smart Home Automation Project

By

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## 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)


Manage access


Invite a collaborator

☐ Select all


Type ▾


☐

**gaganajeetHanny0705**  
gaganajeetHanny0705 • Collaborator





☐

**Hak11**  
haki11 • Collaborator





☐


**JamesRicci1900**  
Collaborator



☐

**sukhmankaur5022**  
Collaborator





Get team access controls and discussions for your contributors in an organization.

NEW

 Private repos and unlimited members are free.

Create an organization

# Dashboard for story and tasks

General Screen Design

Subtitles

Status

Priority

Timeline

Hours Spent

Screen Designs

Edit

13

Done

High

✓ Sep 29 - Oct 12

Subitems	Person	Status	Timeline	
Landing fragment	James	Done	Sep 29 - Oct 1	
Splash screen	Gaganajeet	Done	Oct 1 - 3	
Kitchen Fragement	James	Done	Oct 1 - 3	
Landscape Views	Gaganajeet	Done	Oct 1 - 6	
Bedroom Fragment	James	Done	Oct 3 - 5	
Living room fragment	James	Done	Oct 5 - 7	
Menu Items	Sukhman	Done	Oct 5 - 7	
Button Styling	James	Done	Oct 7 - 9	
Background Styling	James	Done	Oct 9 - 12	
Login activity	Naveen	Done	Oct 1 - 4	
Registration Activity	Naveen	Done	Oct 1 - 3	
Images and icons	Sukhman, Gaganaj...	Done	Oct 3 - 7	
Setting fragment	Naveen	Done	Oct 1 - 6	
+ Add Subitem				

+ Add

Sep 29 - Oct 12

0

Login Security

Subtitles

Status

Priority

Timeline

Hours Spent

Login Security

5

Planned

High

Nov 30

Subitems	Person	Status	Timeline	
Grab the hashed Password from the d...		Future Step		
Grab the salted key from the database		Future Step		
Get the password from the user		Future Step		
Hashed the salted password		Future Step		
Compare the two		Future Step		
+ Add Subitem				

+ Add

Nov 30

0

View Status of Sensors

Subtitles

Status

Priority

Timeline

Hours Spent

View Status of Sensors

Subtitles

Status

Priority

Timeline

Hours Spent

View Status of Sensors

5

Planned

High

Nov 22

Subitems

Person

Status

Timeline

Sensors designs status for all screens

James

Done

Oct 3 - 12

Obtaining list of data

Future Step

Display the data

Working on it

Weekly reports

Future Step

Detecting issues

Future Step

+ Add Subitem

+ Add

Nov 22

0

sum

Provided Control for devices

5

Planned

High

Dec 1

Subitems

Person

Status

Timeline

Lights on/off

Future Step

Turning sensors on/off

Future Step

Renaming device names

Future Step

Setting temperature

Future Step

Adding RFID/ Access Control

Future Step

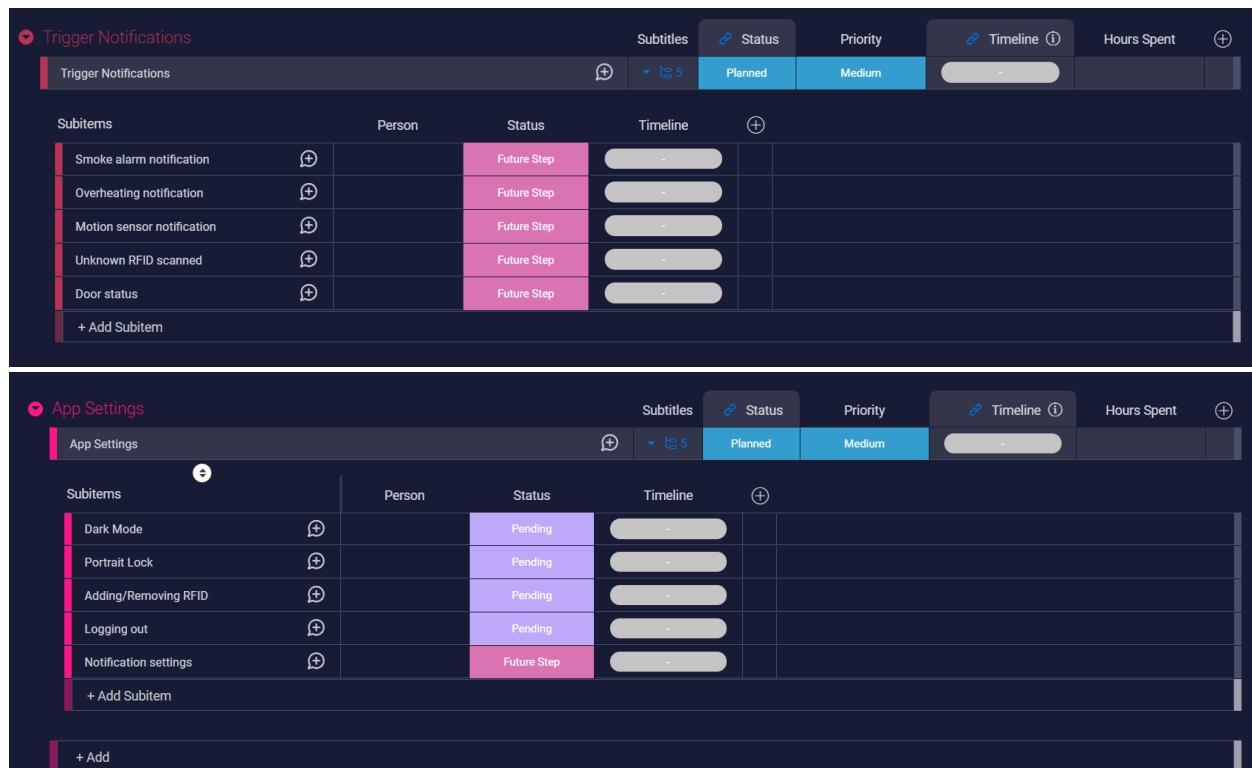
+ Add Subitem

+ Add

Dec 1

0

sum



## Definition of Done

### Story - General Screen Design

#### Tasks - Completed

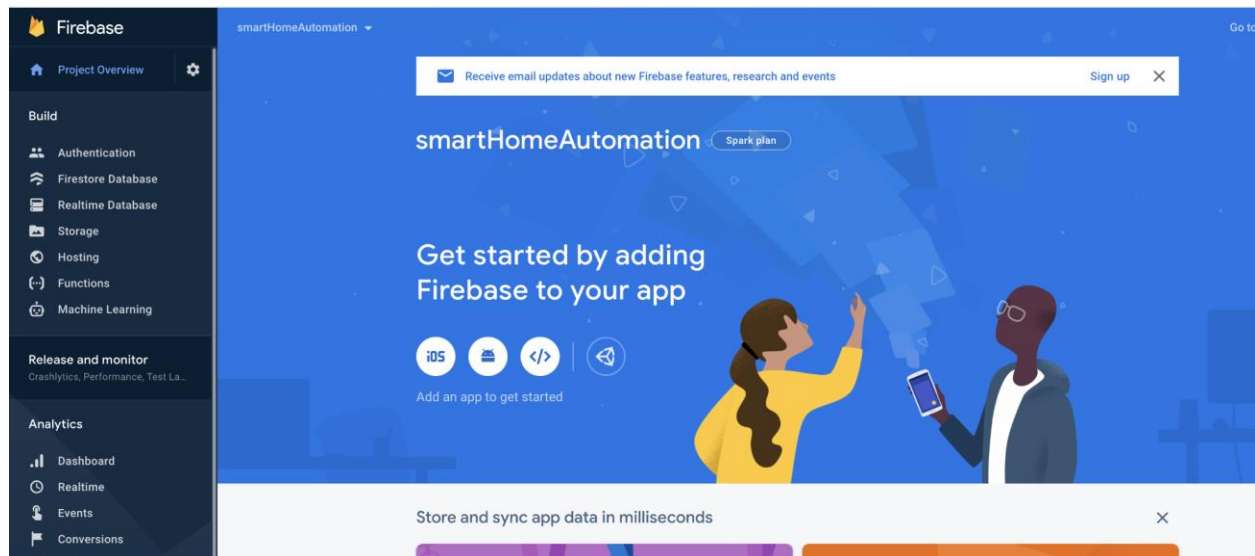
- Designed all the screens, icons, images, styles, fonts
- As per deliverable 2 all requirements were fulfilled
- Updated monday.com to confirm the task completion
- Project builds without errors
- Features are tested on different sizes of screens
- Documentation updated
- Teammates code reviewed

# Business Model Canvas

Business Model Canvas		Designed for:	Designed by:	Date:	Version:
		Smart Home Automation	S.H.A. Team	10/12/21	1
<b>Key Partners</b> <ul style="list-style-type: none"> <li>- Technology Partners</li> <li>- Investors</li> <li>- Humber College</li> <li>- Home Builders</li> </ul>	<b>Key Activities</b> <ul style="list-style-type: none"> <li>- Competitive pricing</li> <li>- Providing more customizable options to the user</li> <li>- 24*7 technical support</li> </ul>	<b>Value Propositions</b> <ul style="list-style-type: none"> <li>- Ease of use</li> <li>- Home security</li> <li>- Weekly status reports</li> <li>- New tech</li> <li>- All in one design</li> <li>- Notification of safety issues like heat or smoke</li> <li>- Control of lights, even when not home</li> </ul>	<b>Customer Relationships</b> <ul style="list-style-type: none"> <li>- Support through email</li> <li>- mainly self serve</li> </ul>	<b>Customer Segments</b> <ul style="list-style-type: none"> <li>- Homeowners</li> <li>- Small business owners</li> <li>- People who want control of their home/office devices like lights and sensors</li> <li>- People with disabilities</li> </ul>	
		<b>Key Resources</b> <ul style="list-style-type: none"> <li>- App for users</li> <li>- Access to network/Firebase</li> <li>- Engineers to maintain backend systems and code</li> </ul>	<b>Channels</b> <ul style="list-style-type: none"> <li>- Google play store with high ratings</li> <li>- Word of mouth</li> <li>- Social media</li> </ul>		
<b>Cost Structure</b> <ul style="list-style-type: none"> <li>- Platform maintenance</li> <li>- Hardware</li> <li>- Installation</li> <li>- R&amp;D</li> <li>- Marketing</li> </ul>		<b>Revenue Streams</b> <ul style="list-style-type: none"> <li>- Hardware system</li> <li>- Future ad space in <u>app</u></li> <li>- Installation charges</li> <li>- Repairing faulty hardware such as sensors</li> </ul>			



## Database Created Screen Shot



## 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.