

TeamSafeSmartHome_SafeSmartHome_Deliverable_2

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%
Jerin Joy	n01276691	Jerin Joy	100%
Patrick Loboda	n01309086	Patrick Loboda	100%

GitHub Repository Link and Strategy

<https://github.com/jacobStephens0088/SAFESMARTHOME>


can view it.

Manage


collaborators.

Manage access


☐ Select all

☐



Hak11
 haki11 • Collaborator

☐


JerinJoy6691
 n01276691 • Collaborator

☐


PatrickLoboda9086
 Collaborator

☐


VeeraGudla8714
 VeeraGudla-8714 • Collaborator

Stories/Tasks

Safe Smart Home






The stories/tasks for the Safe Smart Home App.








Main Table

+ Add View






Sprint 1: Make login to Safe Smart Home app secured

	Person	Status	Start Date	End Date	Size	
Task 1: Make provision to enter secure ID on login page.		Done	Oct 5	Oct 12	Medium	
Task 2: Make userID and password common to users.		Done	Oct 6	Oct 12	Small	
Task 3: Make sure only when userID, password and secure ID are entered, users navigates to customer address page to enter his/he...		Done	Oct 9	Oct 12	Large	
Task 4: Provide password encryption in the login functionality.		Done	Oct 7	Oct 7	Medium	
Task5: Make secure ID to enter a 9 digit number.		Done	Oct 9	Oct 12	Medium	
+ Add						
				Oct 7 - 12		






Sprint 2: Make sure customer address page in Safe Smart Home app works for the user








	Person	Status	Start Date	End Date	Size	
Task 1: Give provision on customer address page for the user to provide complete home address.		Stuck	Oct 5		Small	
Task 2: Provide safety feeling to user by an image on the customer address page.		Working on it	Oct 9		Small	
Task 3: Display address of user's home on Home Status page.		Stuck	Oct 9		Small	
Task 4: Display address of user's home on Home control page.		Stuck	Oct 9		Small	
Task 5: Display address of users home on Humidity/Fire page for users having this feature.		Stuck	Oct 8		Small	
+ Add						

Sprint 3: Give status of user's home from Home status page

	Person	Status	Start Date	End Date	Size	
Task 1: Set home temperature.		Working on it	Oct 7		Medium	
Task 2: Set smoke detection.		Working on it	Oct 7		Medium	
Task 3: When motion detector detects intruder Make sure to make the button on to close all doors and windows of the home.		Working on it	Oct 7		Medium	
Task 4: Set humidity (optional).					Medium	
Task 5: When fire breaks, turn on fire alarm and auto dial 9-1-1 (optional).					Medium	
+ Add						

Sprint 4: Make sure minimum features available for user's home safety on Home Controls

	Person	Status	Start Date	End Date	Size	
Task 1: When temperature is above 20 degrees Celsius, turn on AC and below 20 degrees turn on heat.		Working on it	Oct 8		Large	
Task 2: When smoke detected turn on exhaust fan.		Working on it	Oct 8		Large	
Task 3: When someone tries to break into home and is detected, using motion detector to turn on button to close all doors and wind...		Working on it	Oct 8		X-Large	
Task 4: Turn off humidity control(optional).					Medium	
Task 5: When fire breaks, auto dial 9-1-1 is tuned off (optional).					Medium	
+ Add						

📌 Sprint 5: Make sure Humidity/Fire page of App has provision for additional features for user's home safety						Person	Status	Start Date	End Date	Size	⊕
Task1: Set Humidity control.	+						Working on it	Oct 11		Large	
Task2: Set Fire alarm.	+									Large	
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 12	Oct 12	Small	
Task4: When fire breaks into the home, turn on auto dial 9-1-1.	+									Large	
Task5: When humidity is high, turn on AC.	+									Large	
+ Add											
									<div>Oct 12</div> 		

DoD Criteria

- Added 5 tab pages to the Safe Smart Home app.

DoD: All the 5 tab pages are appearing on the Android emulator when running the app from the Android Studio.

- Added a Splash page to the Safe Smart Home app.

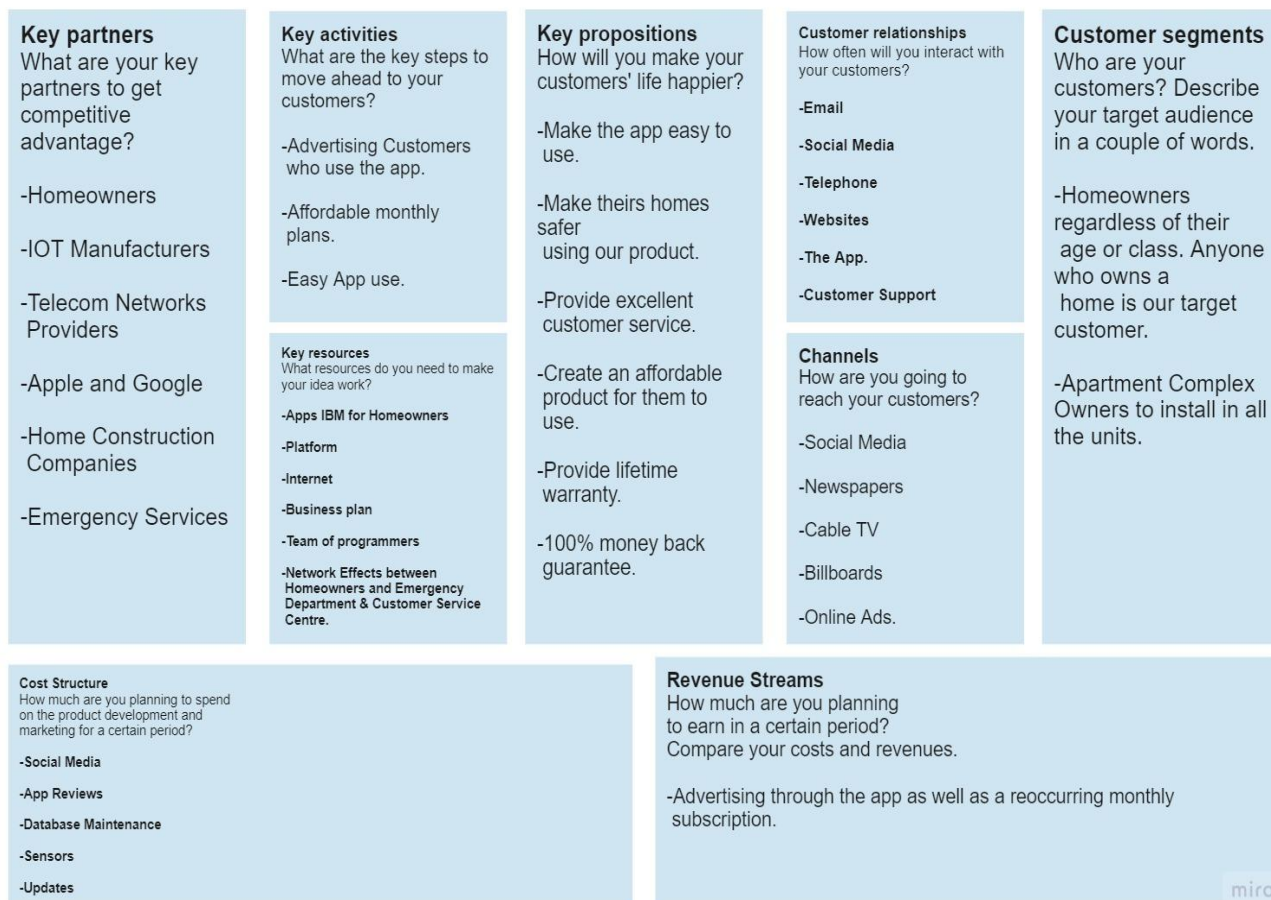
DoD: The Splash page appears for 3 seconds with the loading bar when running the app from android studio. The splash screen appears for 3 seconds when the app loads.

- Added runtime permission java and xml code.

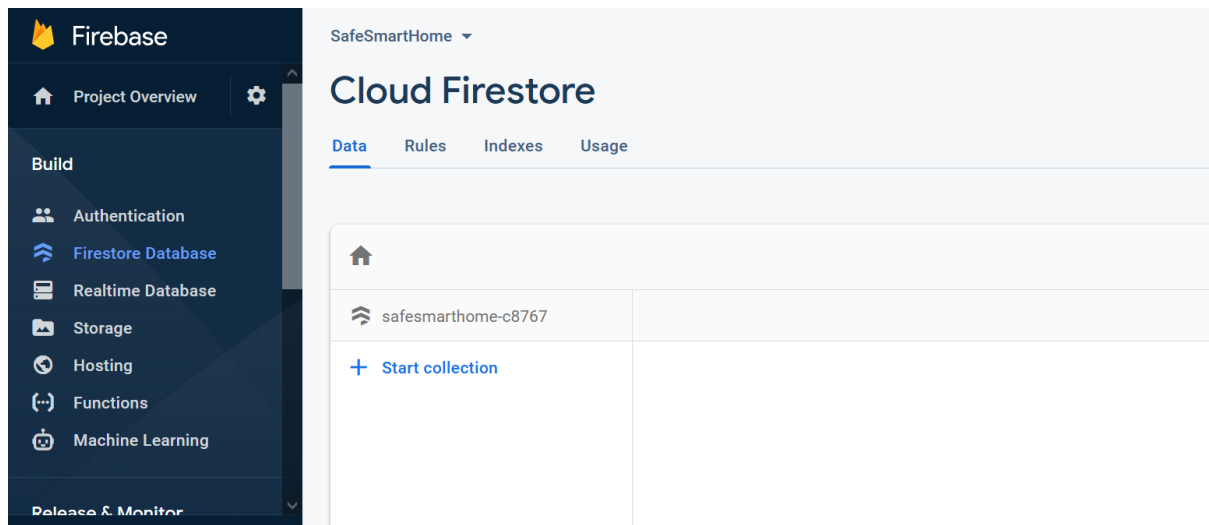
DoD: When you click on the login button, it navigates to the Customer Address page and displays "Permission granted" for given username, password, and 9-digit secureID. When username, password, and secureID are null or username and password are not given values, and secureID is not a 9-digit number; snackbar displays "Permission Denied".

Business Model Canvas

The Business Model Canvas



Firestore DB Details



The firestore database has been synced to the android studio project and tested within the main activity, where a message is sent from the activity and stored within the database. The image above shows our group name which is configured to Firebase.

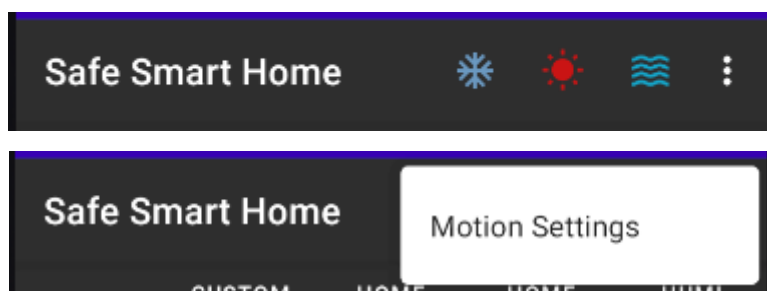
Additional features/functionalities added since deliverable_1

1. SIN Number is replaced by Secure ID for login for home owners safety.
2. Humidity sensor added to Hardware.
3. Humidity/Fire page is added as an additional fifth page for the safe smart home App.
4. The Back key dialog in deliverable 1 has a proper image.

Stand-ups outcome table

ITEM	START DATE	END DATE
Add 5 tab pages to the Safe Smart Home app.	10/2/21	10/3/21
Add a Splash page.	10/5/21	10/6/21
Design a login page.	10/7/21	10/12/21
Design home control page.	10/8/21	10/12/21
Design Home Status page.	10/7/21	10/12/21
Design Humidity/Fire page.	10/12/21	10/12/21
Design Customer Address page.	10/12/21	In Progress
Adding a snackbar for runtime permission.	10/12/21	10/12/21

Screenshots of menu items on Header Bar



Runtime Permission Details

Added functionality on the login page for the login button for the below runtime permission.

If the username is SmartHome, password is Home123, and secureID is any 9-digit number, then click on the login button, then it navigates to the Customer Address page and the snackbar displays "Permission Granted".

If the username is null or not SmartHome, password is null or not Home123, and secureID is null or not a 9-digit number, then the snackbar displays "Permission Denied".