



Welcome to SmartHome!

Your Home, Smarter and Simpler!

Imagine controlling every corner of your home with just a few taps from switching off a forgotten light to monitoring all your devices in real-time, no matter where you are. With **SmartHome**, you're not just managing your home; you're redefining how you interact with it.

This guide will help you master the features of SmartHome, step by step. Whether you are tech-savvy or a complete beginner, we've got you covered!



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Introduction

Overview of SmartHome

SmartHome is an advanced application designed to make your life easy especially for the management of your smart devices. Whether you're controlling lights, monitoring security cameras, or adjusting thermostats, SmartHome offers a unified interface to manage it all.

Here's a quick recap of what you can do:

- Add** and organize homes, rooms, and devices.
- Control** devices in real-time with SignalR.
- Keep track** of your smart home details in your profile.
- Edit** or delete homes, rooms, and devices easily.
- Log out** securely to protect your account.

System Requirements

Before using the SmartHome app, please ensure your system meets the following requirements

Hardware: Devices supporting Wi-Fi.

Software:

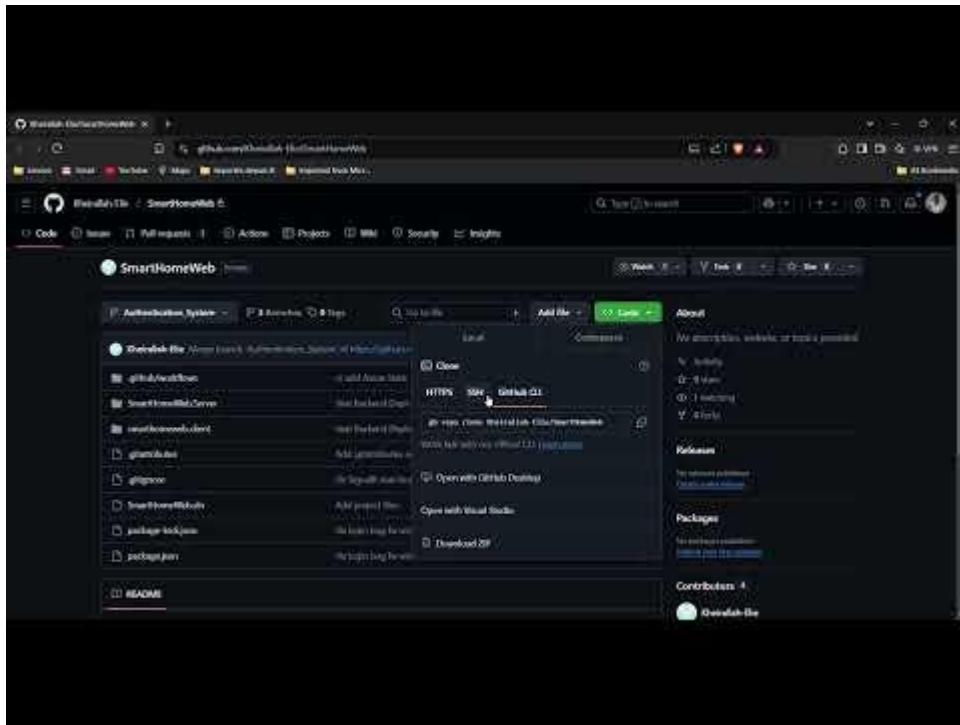
- Visual Studio to run the application
- **Internet Connection:** Minimum speed of 10 Mbps.
- The latest version of the SmartHome app (available on our [GitHub](#))
- **Database:** MongoDB (local or cloud instance).
- Development **Environment:** Visual Studio 2022 or later.
- Web **Browser:** Chrome, Brave, or Edge, etc....(for web version)

How to Set Up and Use the App

Clone the Repository:

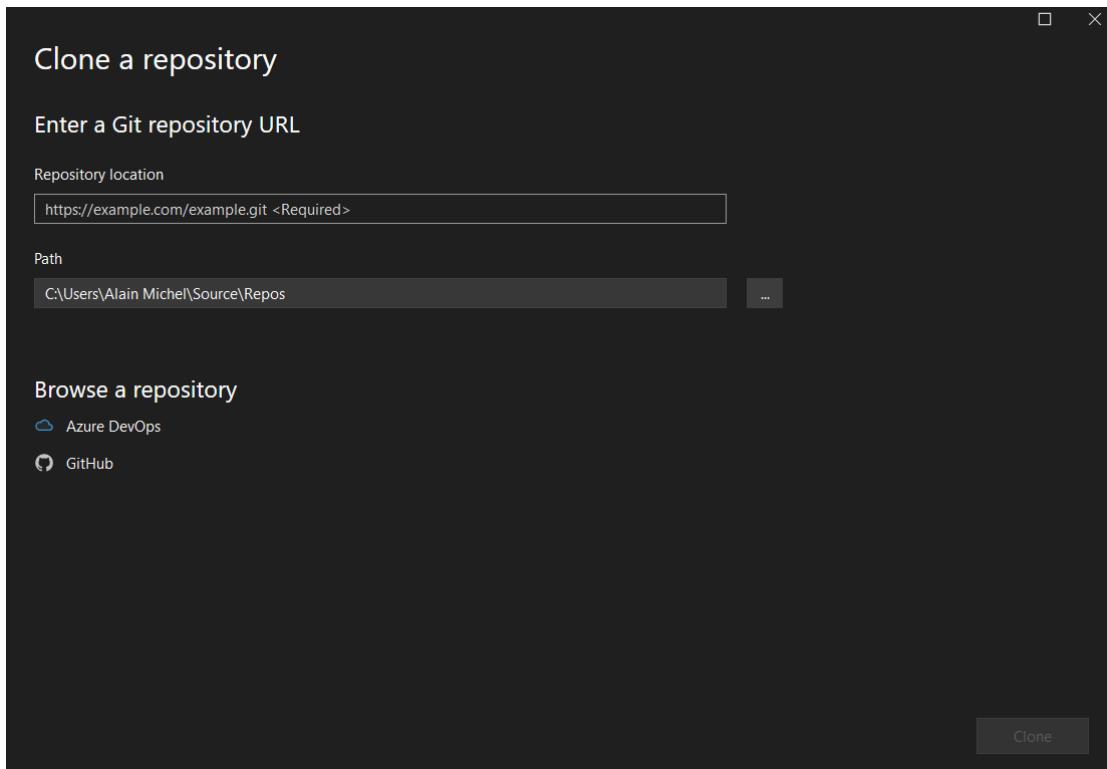
To get started with the SmartHome app, you need to clone the project repository from GitHub:

- Open GitHub and navigate to the SmartHome repository at this link:
<https://github.com/Kheirallah-Elie/SmartHomeWeb.git>
- **Copy** the HTTPS URL of the repository.



Clone the Repository in Visual Studio:

- Open **Visual Studio** on your system.
- In the top menu, click on **File > Clone Repository**.
- A dialog window will appear asking for the repository URL.
- Paste the **HTTPS URL** that you copied from GitHub into the URL field.



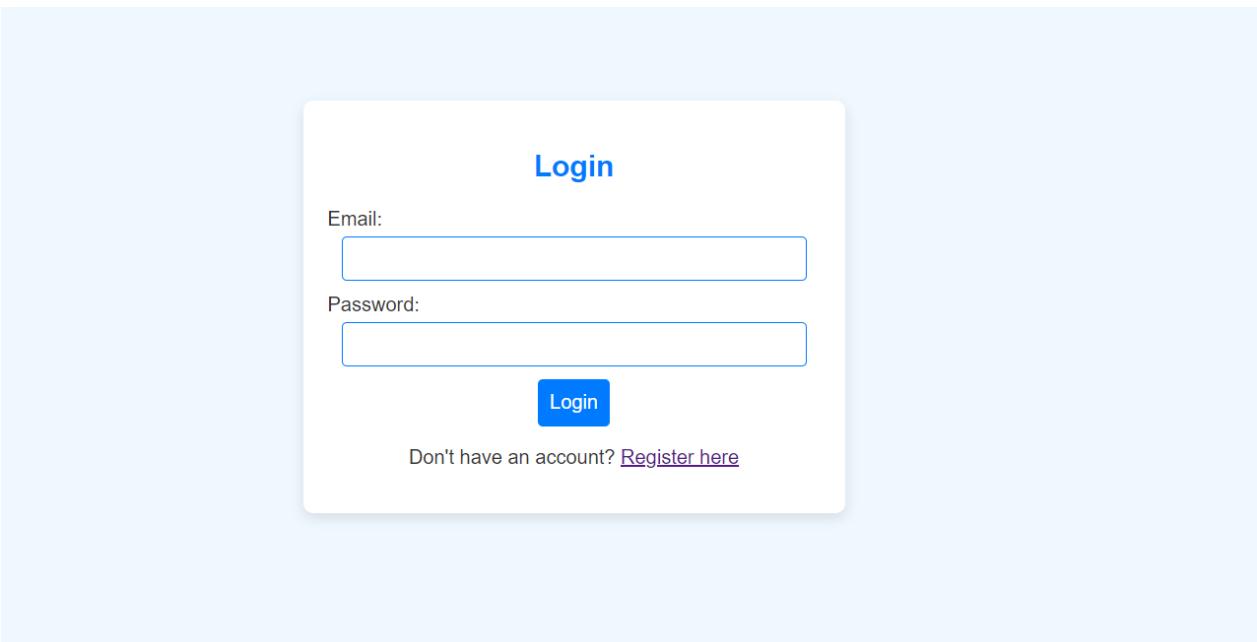
Now, Build and Run the Application:

- Once the project is ready, build the project by clicking **Build > Build Solution** in Visual Studio.
- After the build completes successfully, click **Start** (green play button) to run the application.

Getting Started

Create your account

Once you've launched the application, you'll be redirected to the **Login Page** and If you don't have an account yet, click on the "[Register here](#)" button.



You'll be redirected to the **Register page**, where you'll create your account and then login before accessing the **main page** of the application.

Register

Email:

Password:

Confirm Password:

Already have an account? [Login here](#)

Main Page

The **Main Page** of the **SmartHome**, your one-stop control center for all things smart! This is where the magic happens, and you'll manage everything related to your homes, rooms, and devices. Ready? Let's explore!

Dashboard Add ▾ Profile icon

Welcome back, alain@gmail.com!

We're excited to have you back. Explore your homes and manage your devices with ease.

Profile Page

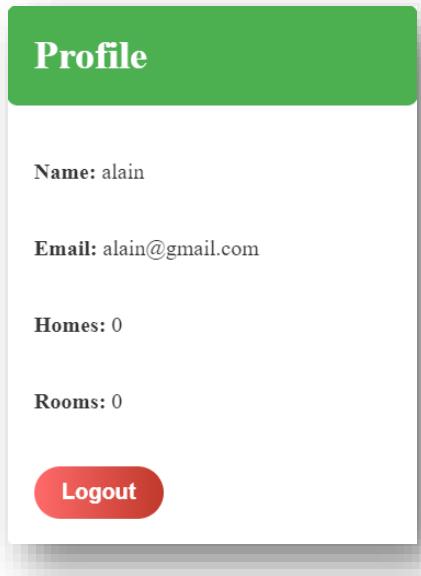
At the top-right of the screen, there is a **profile** icon.



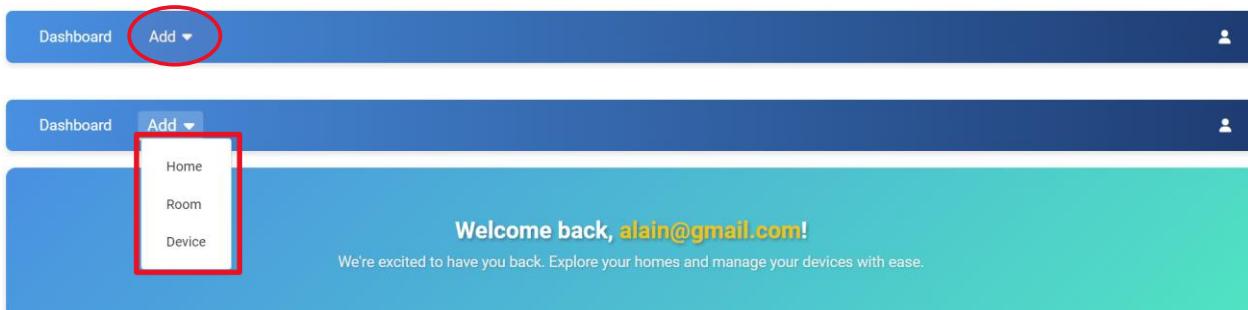
Tap this to access your profile settings.

From here, you can:

- **View** your name and Email.
- View how many **homes** and **rooms** you have.
- **Logout**

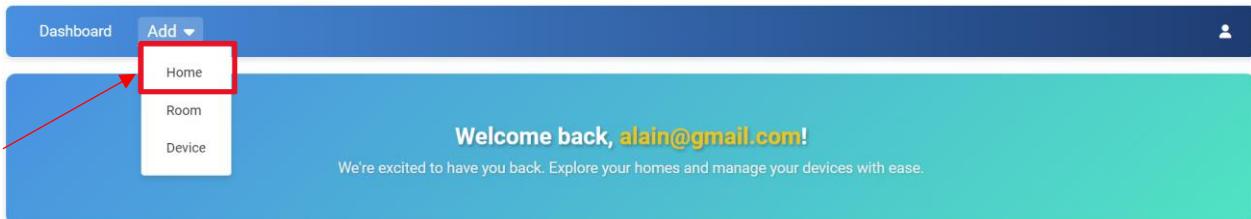


To the left, you'll find the **main menu** with all the powerful features of the app. It's like your home's command center!

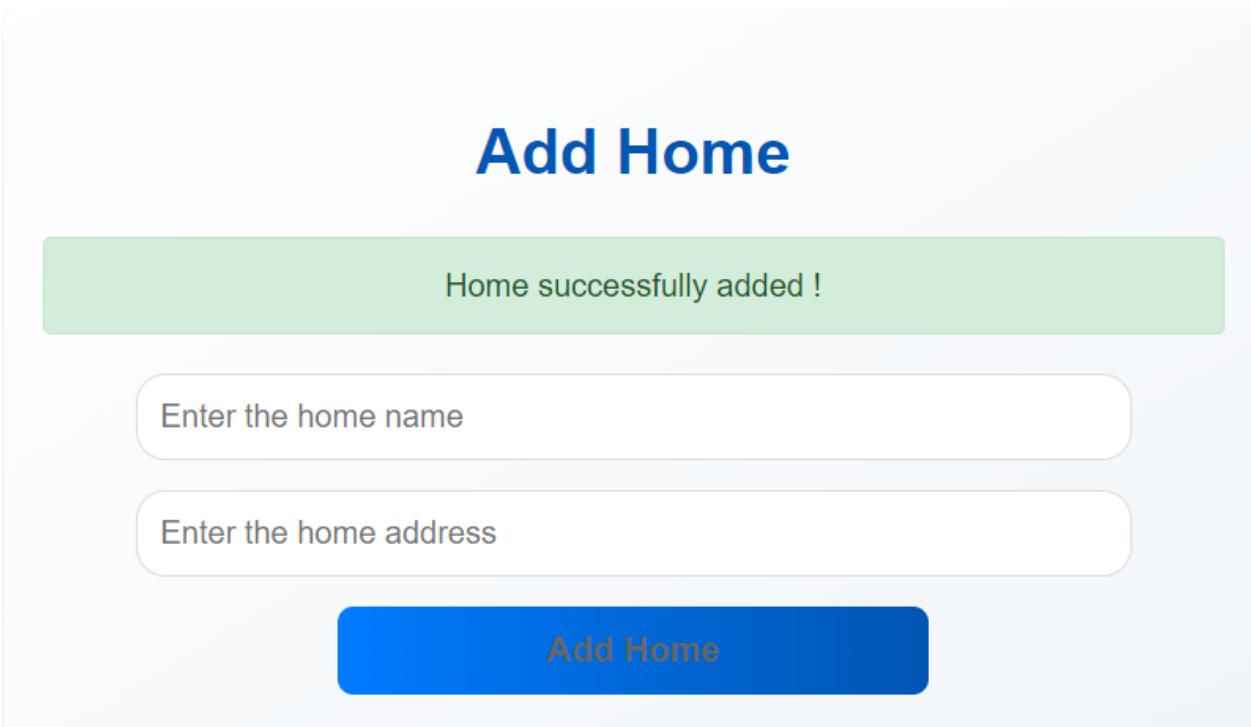


Here you can add your homes, rooms and devices.

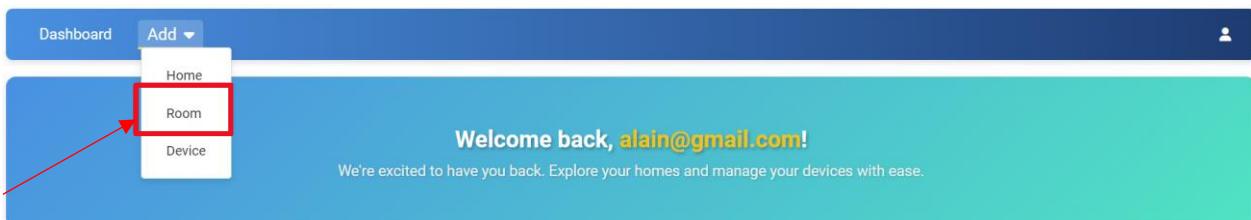
Add Home



You'll find an **Add Home** button here! Click it to add a new home, like "Beach House" or "Mountain Retreat." 
After adding a home, you'll have a message that your home **has been added successfully**.

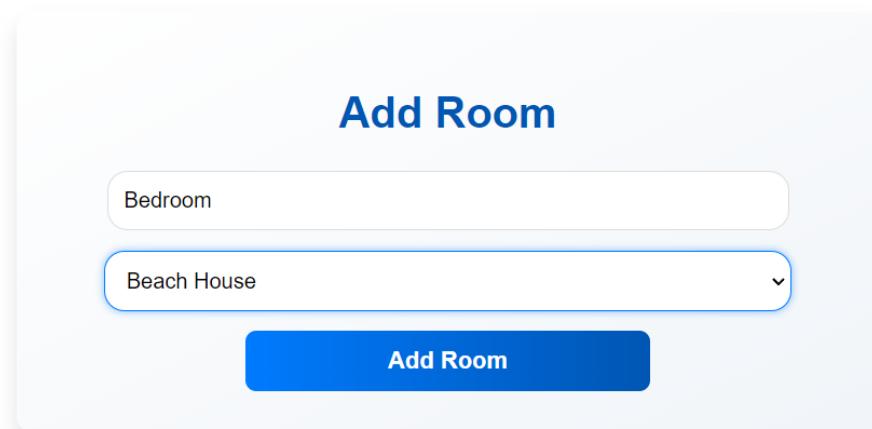


Add Room

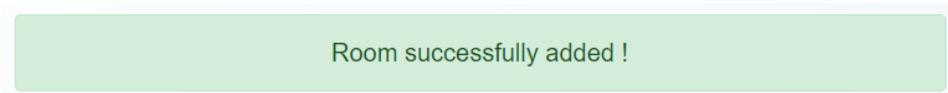


Before you can add a room, you'll need to add a home first, it won't work without one! If you already have a home, you can easily add a room by tapping Add Room.

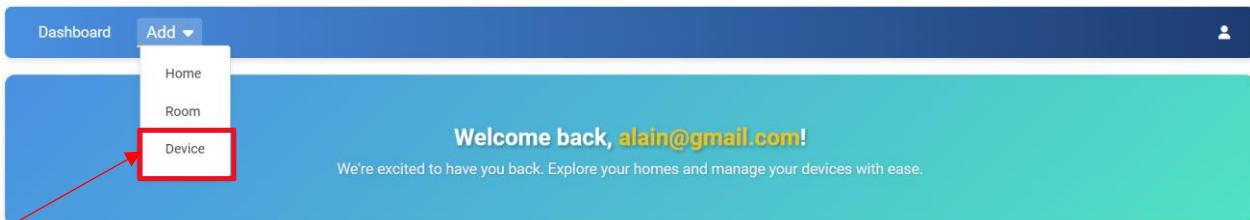
Create rooms like your "Living Room," "Bedroom," "Kitchen," and more! Just **select** the home you want to add the room to, and you're all set!



After adding a room, you will see this message on the screen if your room has been **successfully added**.

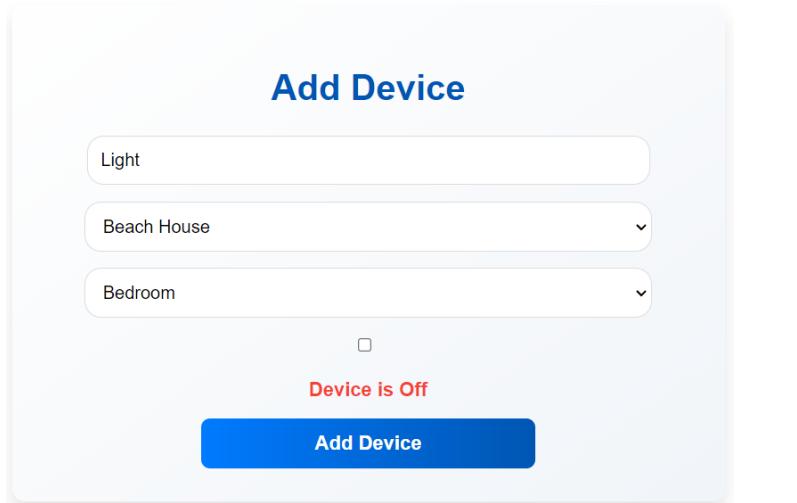


Add Device



Tap **Add Device** to connect all your smart gadgets to the app. You can add things like:

- **Lights:** Smart bulbs to brighten up any room.
- **Thermostats:** Control the temperature to stay comfortable.
- **Security Cameras:** Keep an eye on things when you're not home.
- **Smart Plugs:** Make regular devices smarter with just a plug!
- And a whole lot more!



Device successfully added !

Each device gets added to the room you choose, and voilà – you're all set up! You can then start controlling them right away. 😊

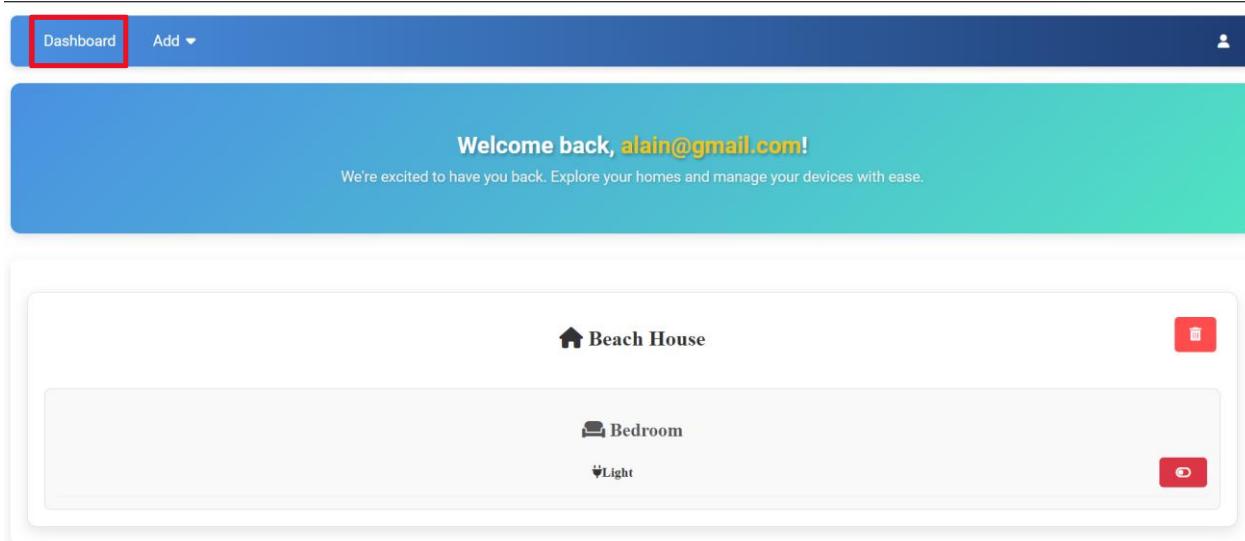
Home Overview

View Dashboard

Your Smart Home at a Glance

Once you've added homes, rooms, and devices, this is where you can see them all in one place. Here's what's waiting for you:

- **Homes Overview:**
Your home list is displayed here. Tap on any home to manage its rooms and devices. You'll see each home neatly organized, ready for action!
- **Rooms Inside the Selected Home:**
When you choose a home, you'll see all the rooms inside it. This helps you keep everything organized. So, if you've got your "Living Room" filled with gadgets, your "Kitchen" with smart appliances, or even a "Bathroom" with a smart shower, you'll find everything here.
- **Devices Inside Each Room:**
Within each room, you'll see a list of devices you've added. You can control each one individually:
 - Turn your lights on or off
 - Adjust the thermostat temperature
 - Check camera feeds
 - And much more!



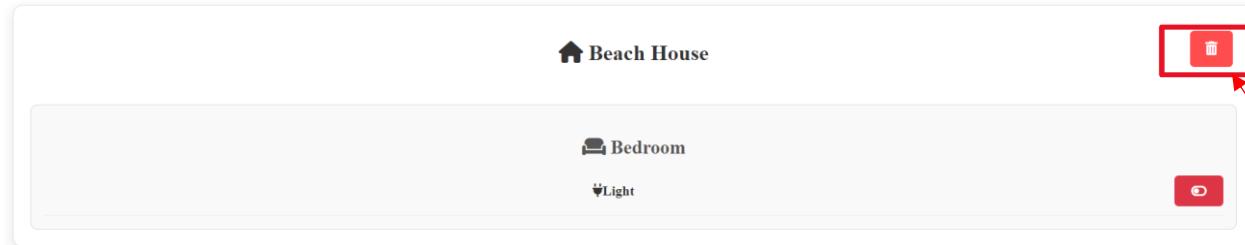
Edit or Delete Dashboard

Make Changes as You Go

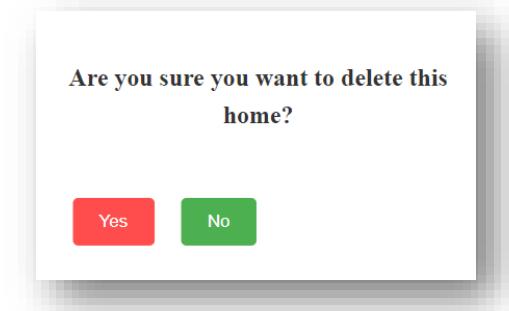
In this menu, you're not just stuck with what you've added, you can **edit** or **delete** any part of your smart home at any time! Additionally, you can manage the real-time operation of your devices, like turning lights on or off with ease! Here's how:

Delete Homes

If you want to remove a home, simply tap **Delete** next to the home you want to delete.



A confirmation popup will appear, asking you, "Are you sure you want to delete this home?" Hit **Yes** if you're sure. (And don't worry – we won't let you delete anything by accident! 😊)



Control Devices in Real-Time



Tap to turn devices on or off – like switching lights on or off. This update happens in real-time with SignalR, ensuring your home stays in sync and responsive as you make changes!



Profile

Once you've added homes and rooms, your **Profile** will automatically update to show the number of homes and rooms you have. It's like your personal smart home dashboard!

In your profile, you'll see a quick overview of how many homes and rooms you've created. For example, it might say something like, "You have 3 homes and 7 rooms" – helping you track your smart home empire in real time!

So, the more homes and rooms you add, the more your profile reflects your growing smart home world!

Name: alain

Email: alain@gmail.com

Homes: 1

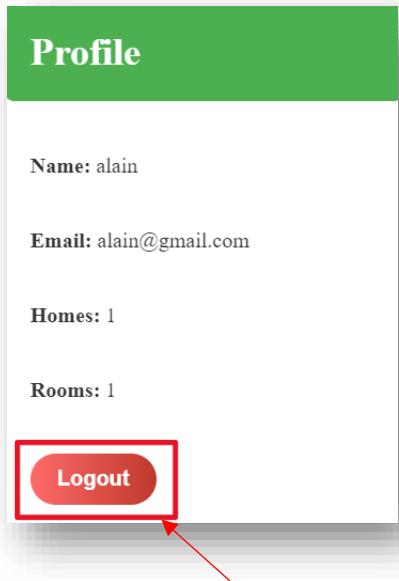
Rooms: 1

Logout

Logout

Your Secure Exit 

In the **Profile** section, you'll find a handy **Logout** button, designed to keep your account secure when you're done using the app.



Logging out ensures that your account stays protected, especially if you're using a shared device or accessing the app from a public place. It's a simple step that goes a long way in maintaining your privacy and security.

So, whether you're stepping away for a bit or done for the day, the **Logout** button is your best friend for a secure exit!

FAQs

1. How do I create an account?

You can create an account by clicking the "[Register Here](#)" button on the login page. Fill in the required information, and you're ready to start!

2. Can I reset my password?

No, there is currently no option to reset your password. Make sure to keep your password safe. If you lose access, you'll need to create a new account.

3. Is my password secure?

Yes! Your password is encrypted and securely stored in our database.

4. What can I do with the app?

Here's what you can do with SmartHome:

- Add homes, rooms, and devices.
- Control your devices in real-time (turn lights on/off, adjust thermostats, etc.).
- Edit or delete homes, rooms, and devices.
- View all your smart home details in the profile section.

5. How do I add a home, room, or device?

- **Add Home:** Go to the main page and click "[Add Home](#)."
- **Add Room:** Select a home first, then click "[Add Room](#)."
- **Add Device:** Choose a room and tap "[Add Device](#)" to connect your smart gadgets.

6. Can I control my devices remotely?

Yes, you can control your devices in real-time from anywhere.

7. How do I log out?

Tap the profile icon on the top-right corner of the screen and select "[Logout](#)." This ensures your account stays secure.

Support and Contact Information

If you have questions or need assistance, we're here to help! Below are the ways you can reach out to us:

Contact Information

You can contact our team members directly via their **Contact Email** provided for assistance.



alain.nitunga@helb-prigogine.be

elie.kheirallah@helb-prigogine.be

jamal.assou@helb-prigogine.be

leo.calvocastano@helb-prigogine.be



farouk.aitoujkal@helb-prigogine.be

Support Hours

- Monday to Friday: 9:00 AM - 6:00 PM
- Closed on weekends and public holidays.
- **Additional Resources:** For more detailed troubleshooting guides, user tutorials, and community forums, visit our GitHub repository: [GitHub Repository](#)

We're committed to making your SmartHome experience as seamless and enjoyable as possible. Don't hesitate to reach out for support or share your feedback. Together, we'll build a smarter future!

Conclusion

Congratulations! You're now ready to make the most of your smart home with the SmartHome app. From adding and managing your homes, rooms, and devices to controlling them in real-time, you have all the tools you need to simplify your life.

We hope this guide has made it easy to get started and explore the app's powerful features. Remember, if you ever need help, our support team is just a click or call away.

Your journey with SmartHome is just beginning, so dive in and enjoy redefining how you interact with your home.

Welcome to the smarter way of living!