

# ***DOMISEP Smart Home***



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# Objective

The objective of the IT part is to design and develop the web platform that will display the data provided by sensors, and that will control objects connected to the platform. The developed website should possess the following features,

## Process - 1

- Online registration for users

## Process - 2

- Management by the users

## Process - 3

- Transfer of data between the user and the backend

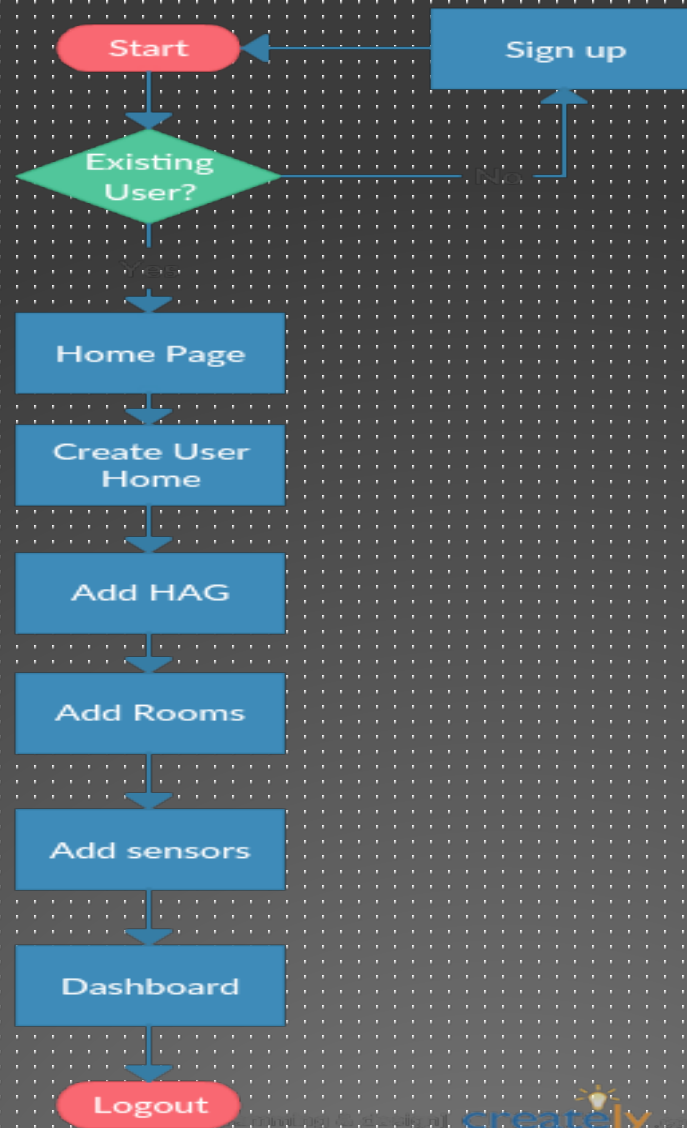
# Process -1

## Online registration for users

This process involves two actions by the user

- **Login**
  - Existing user logs in with the help of his credentials
  - If the existing user forgets his password, we have introduced a 'Forgot Password'
  - This option helps to reset the password by email verification
- **Signup**
  - New user enters his details in the register form and enrolls himself into the DOMUS website

# Flow Chart



# Process - 2

## Management by the users

This process involves three actions by the user

- Create Home
- Manage Home
- Monitor Home

## Management by the Admin

- Update room type
- Update sensor type
- Deletion of users

# Create Home

- The user does the following activities under create home option

## **Adding Home**

- User can enter his address
- User can add his city name
- User can add his postal code

## **Adding HAG**

- Add necessary HAG to the home(Number of HAG)
  - The requirement for adding HAG will be based on the size of his home

## Adding Rooms

- User adds the required number of rooms based on the types of rooms available on the screen
  - The types includes
    1. Bedroom
    2. Bathroom
    3. Living room
    4. Kitchen
- Delete options is also provided to delete the added rooms instantly
- By clicking the 'Next' button on the bottom of the page the user can navigate to the Add Sensors page

## Create Rooms



Bedroom

Add



Bathroom

Add



Dining Room

Add



Living Room

Add

## My Room List

No.	Room Type	Room Name	Action
1	Bedroom	parents bedroom	<a href="#">Delete</a>   <a href="#">Add Sensors</a>
2	Bedroom	children bedroom	<a href="#">Delete</a>   <a href="#">Add Sensors</a>
3	Dining Room	Family dining room	<a href="#">Delete</a>   <a href="#">Add Sensors</a>

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# Adding Sensors

- Add sensors to the rooms based on room types

## Add Sensors



Temperature


Select Hag

middle

Select Room

parents bedroom

Add



Light

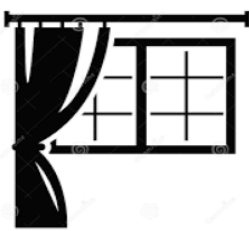
Select Hag

middle

Select Room

parents bedroom

Add



Window


Select Hag

middle

Select Room

parents bedroom

Add



Humidity

Select Hag

middle

Select Room

parents bedroom

Add

## My Sensor List

No.	Sensor Type	Sensor Name	HAG Name	Room Name	Action
1	Temperature	tcenter	middle	parents bedroom	<a href="#">Delete</a>
2	Humidity	Hcenter	middle	parents bedroom	<a href="#">Delete</a>


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# Manage Home


Updation and deletion of home, room and sensors are the activities.

## Manage Homes




Chanel  
CoCo  
100 Champs  
de Mars

Manage




Armani  
Georgio  
555 HASTES

Manage



Candy  
39 Av. Kleber

Manage



test  
test

Manage

Home Name:

\*

Address:

\*

City:

\*

Post:

\*

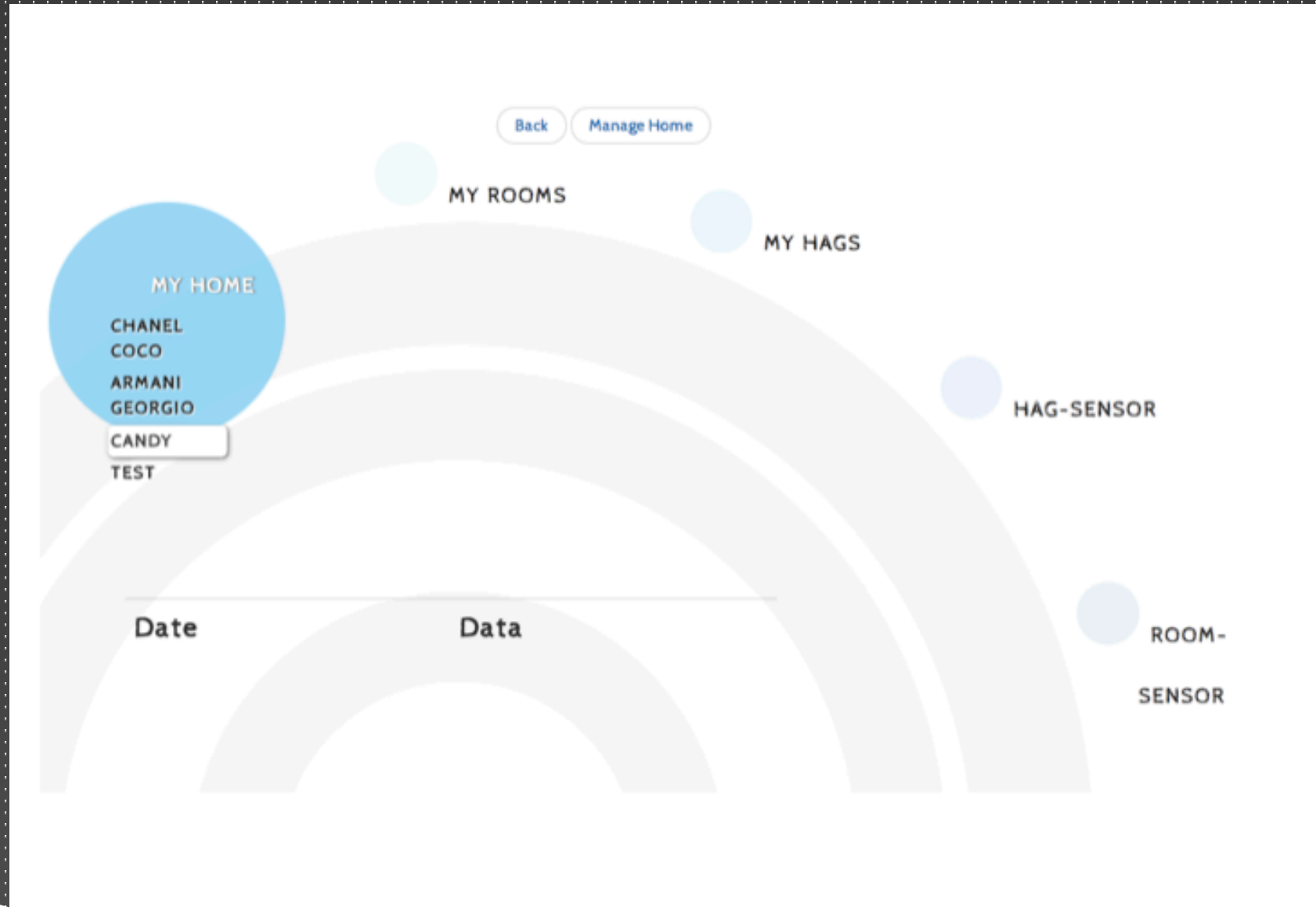
\*required field

Update

Edit Hag Edit Room Edit Sensor Done Delete Home? Are you sure?

Back Monitor Sensors

# Monitor Home



# Management by the Admin

Update room type, Update sensor type and Deletion of users

## Room Types List

No.	Room Type	Action
1	Bedroom	<a href="#">Delete</a>
2	Bathroom	<a href="#">Delete</a>
3	Dining Room	<a href="#">Delete</a>
4	Living Room	<a href="#">Delete</a>

## Add room type

Room type:

## Sensor types List

No.	Sensor Type	Action
1	Temperature	<a href="#">Delete</a>
2	Light	<a href="#">Delete</a>
3	Window	<a href="#">Delete</a>
4	Humidity	<a href="#">Delete</a>

## Add sensor type

Sensor type:

## Users List

No.	User name	Action
1	chel723	<a href="#">Delete</a>
2	vigneshp	<a href="#">Delete</a>
3	vertforce	<a href="#">Delete</a>
4	vertforceb	<a href="#">Delete</a>

# Process -3

## Transfer of data between the user and the backend

- This activity involves the usage of database to store and retrieve data
- Some scenarios to explain its working
  - User sign up form is stored in a separate table
  - Based on user's id its respective data are being retrieved from the database with the help of the queries

# Tasks Completed

- Login with validation for users
- Separate tables for User and Admin
- Sign up with validation for users
- Along with forget password option and reset password using email verification

## **User Activities:**

- Create home
- Manage home
- Monitor home
- User can send email from our website if he faces any issues

## **Admin Activities**

- Update room type
- Update sensor type
- Deletion of existing users

# Difficulties faced

- Understanding the architecture took more time than expected (For actual implementation)
- Attempt to use GITHUB costs us more time
- Finalizing the database structure consumed more time