



# HOME AUTOMATION

## WEB PROGRAMMING HOMEWORK

<https://github.com/Oprimidos/home-automation>

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<https://github.com/Oprimidos>

MUSTAFA ESEN

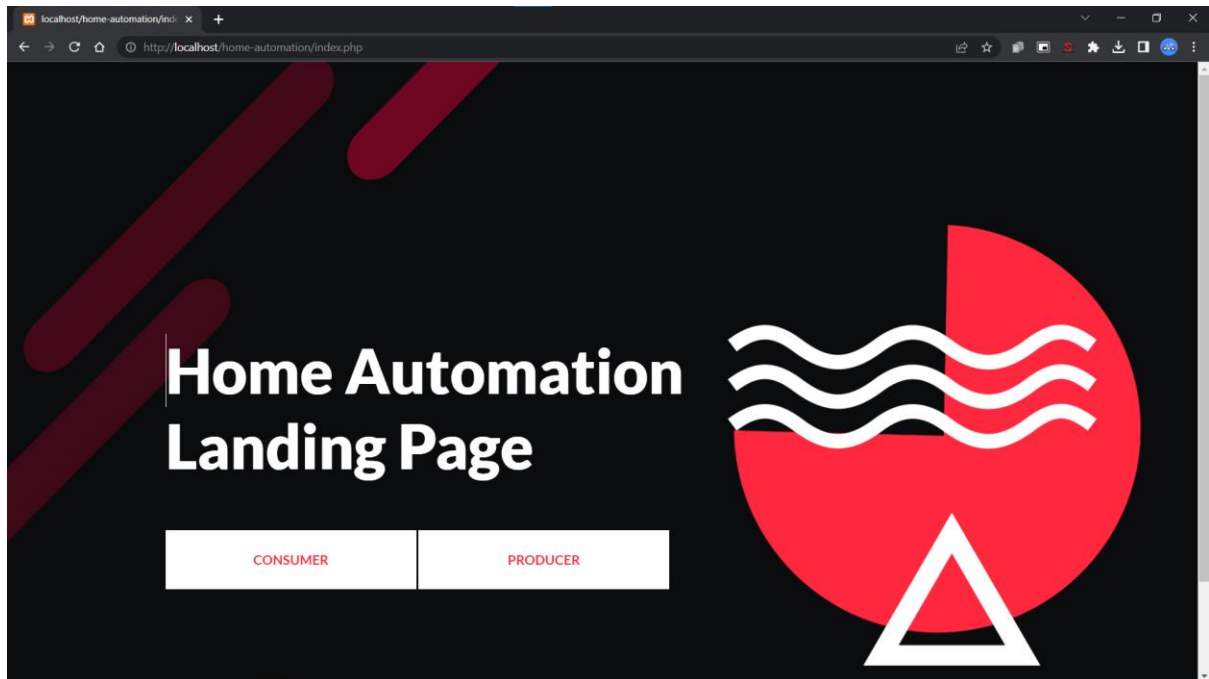
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<https://github.com/Mesen>  
1100

## CONTENTS

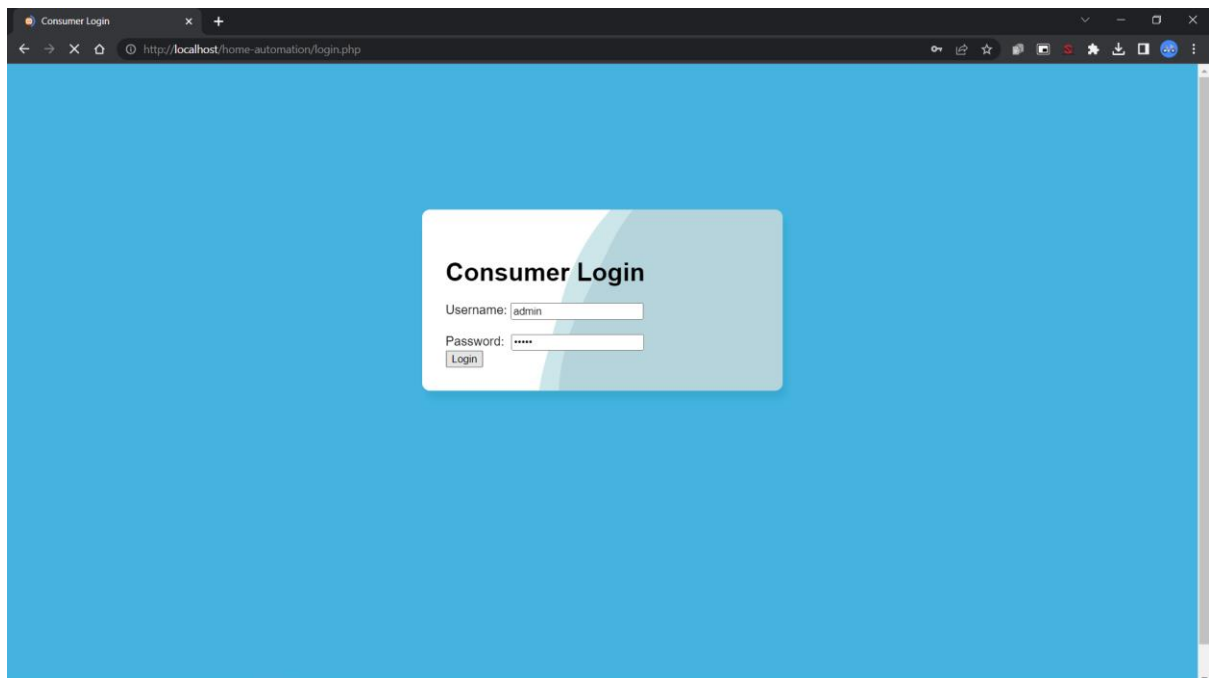
LOGIN PAGE.....	2
CONSUMER .....	2
PRODUCER .....	5
GIT SCREENSHOTS.....	8
DATABASE FOR PROJECT .....	10
SECURITY .....	11
USER INTERFACE DESIGN PRINCIPLES.....	12
USAGE FEEDBACK OF A THIRD PARTY TEST.....	13
WORKFLOW .....	14

# LOGIN PAGE

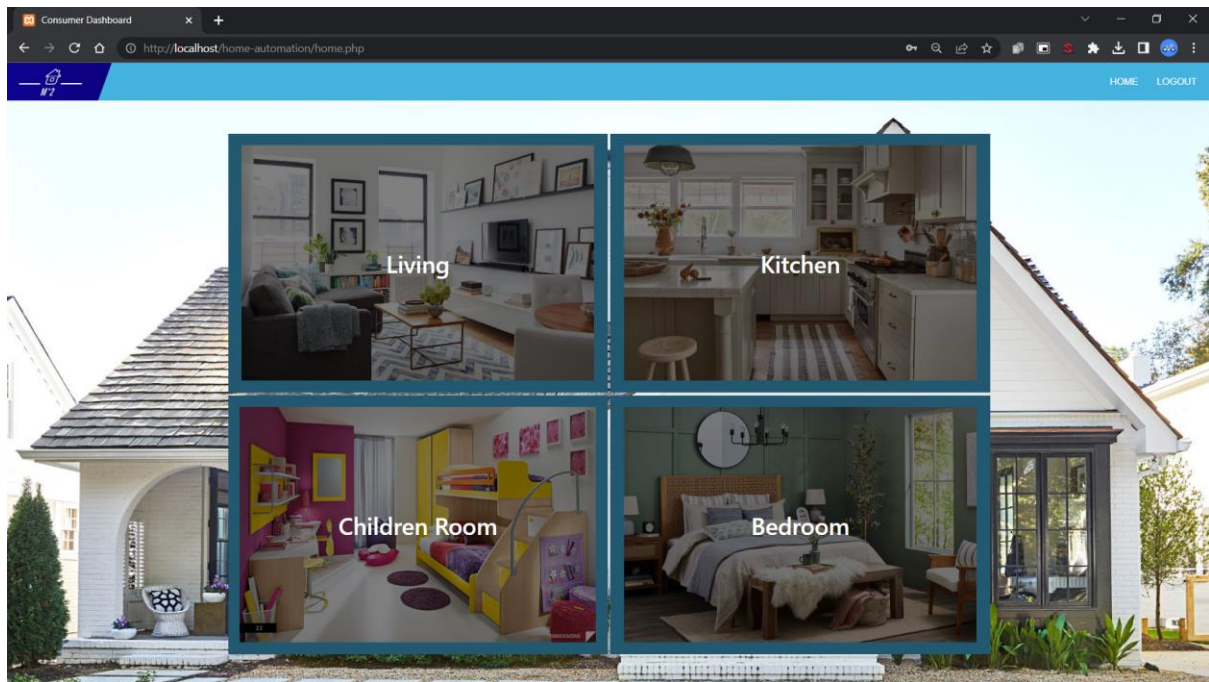


This Page for Login Page for our website

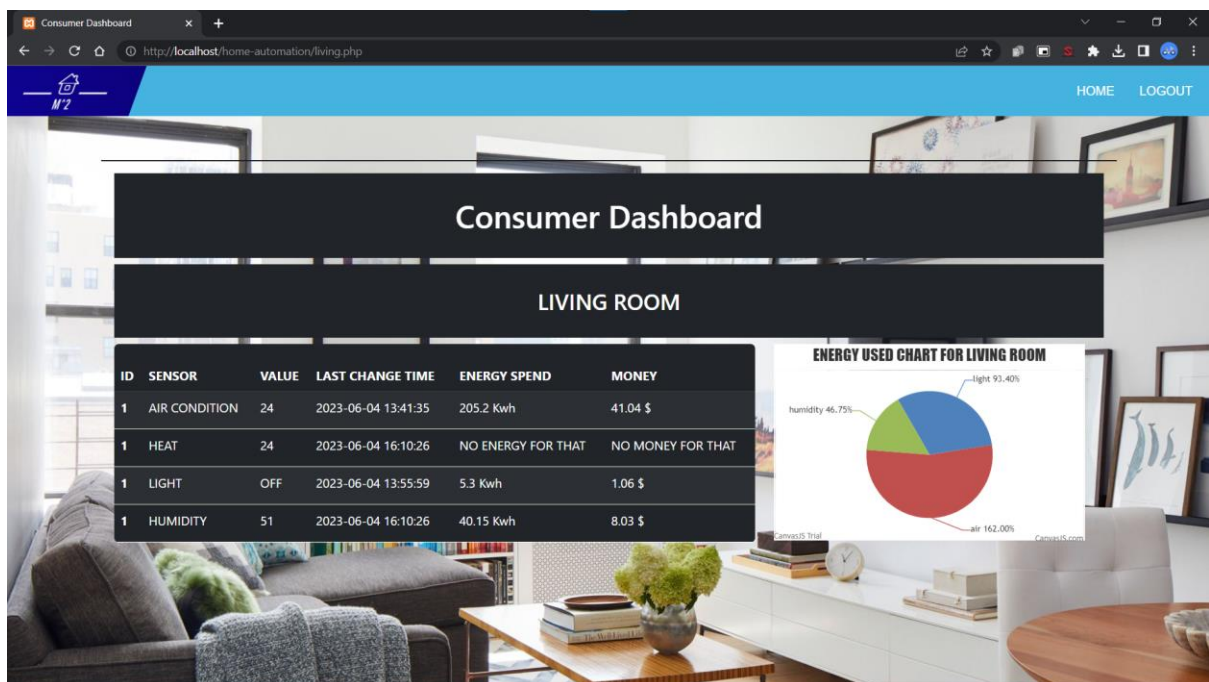
# CONSUMER



This page for Consumer Entry



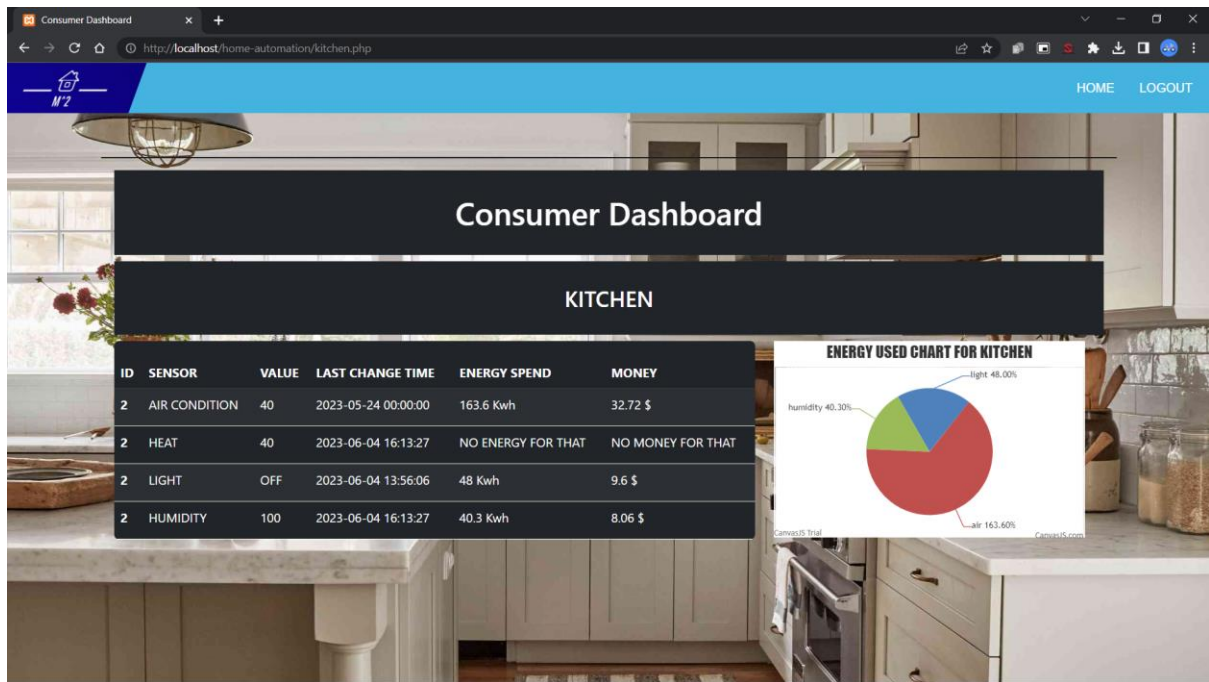
This Page for Access the room



This Page Living Room Page for Consumer

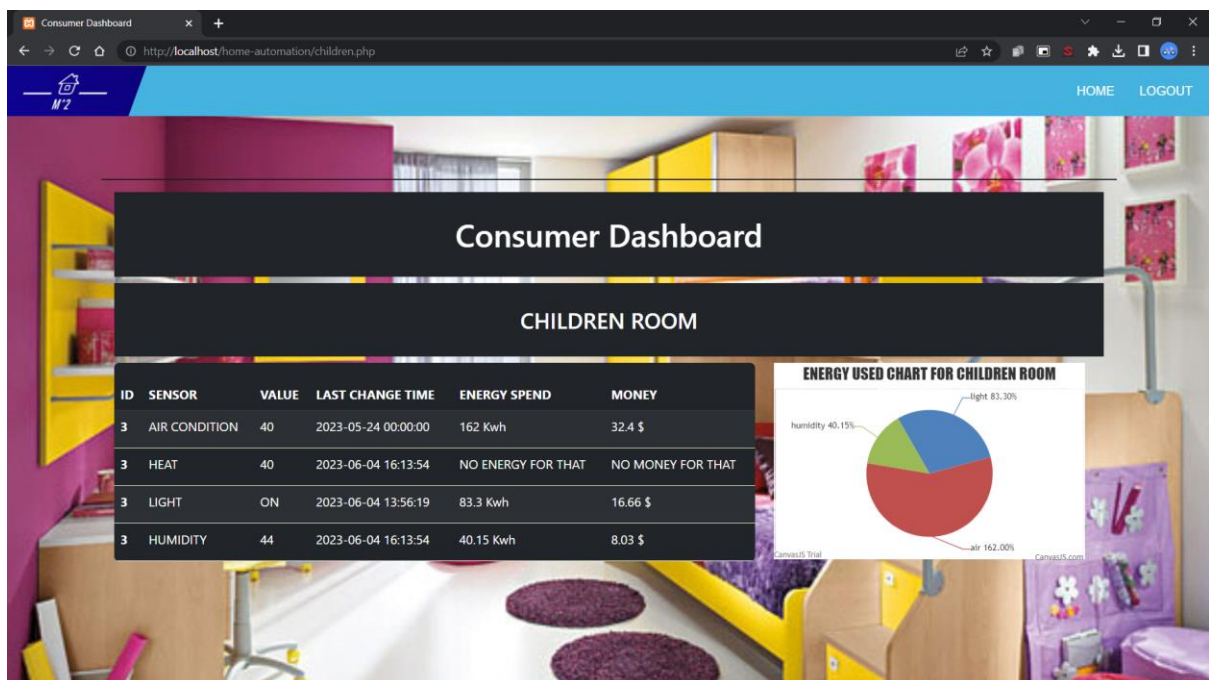
It has data from database and It has chart .Chart is connect to energy for this room. Page is dynamic





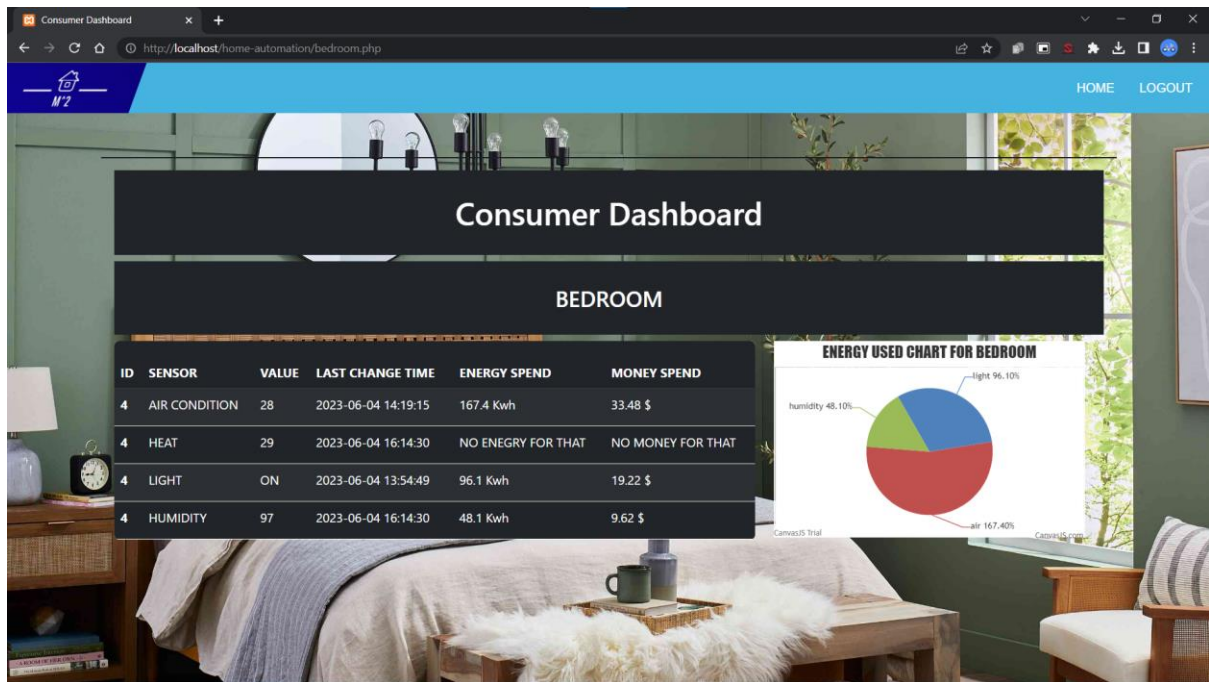
This Page Kitchen Page for Consumer

It has data from database and It has chart .Chart is connect to energy for this room. Page is dynamic



This Page Children Room Page for Consumer

It has data from database and It has chart .Chart is connect to energy for this room. Page is dynamic.



This Page Bedroom Page for Consumer

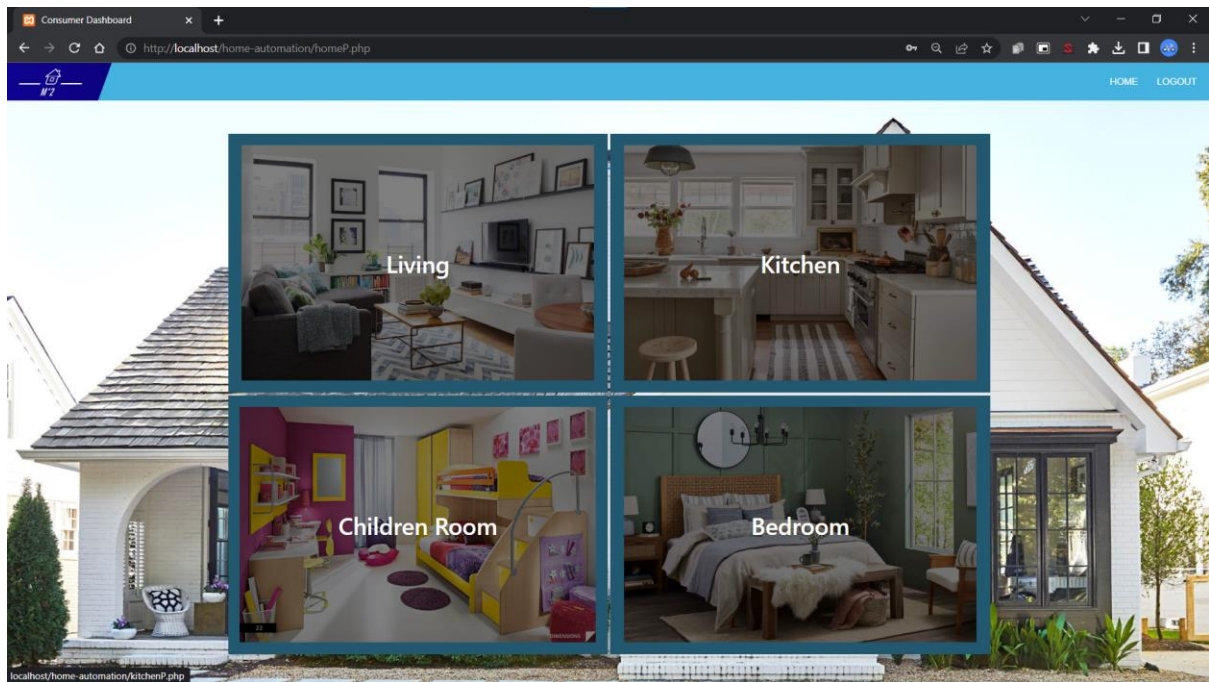
It has data from database and It has chart .Chart is connect to energy for this room. Page is dynamic.

## PRODUCER

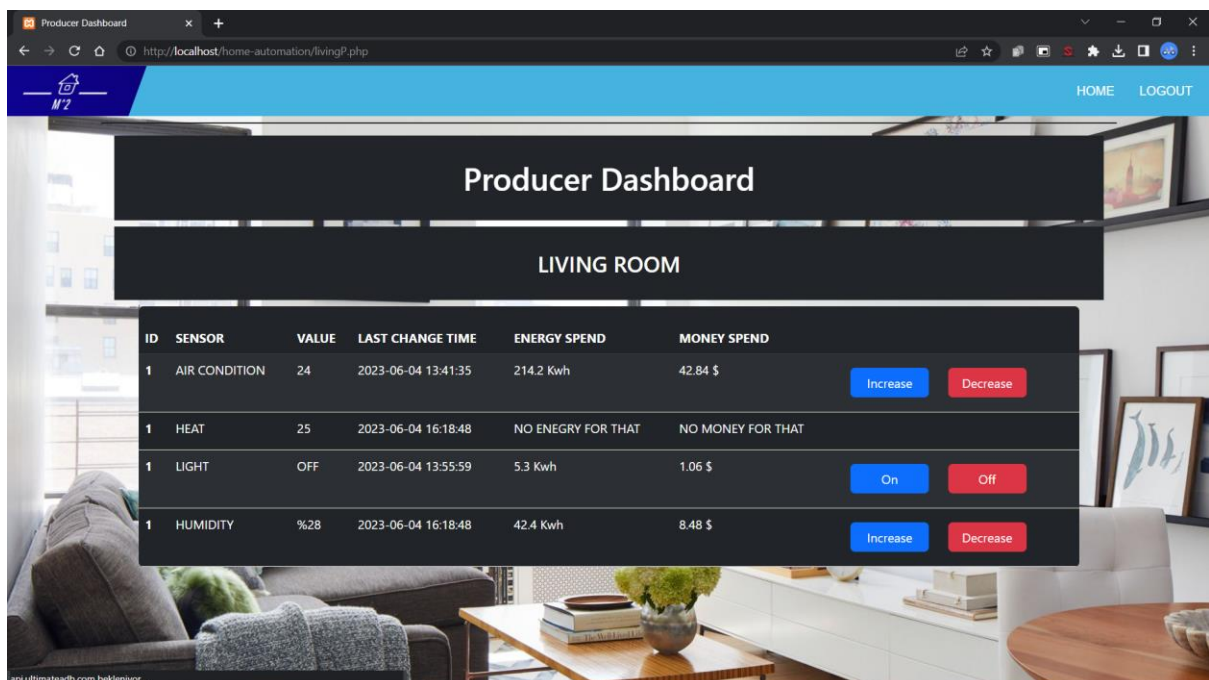
The screenshot shows the 'Producer Login' page. It features a white login form with the following fields:

- Username: admin
- Password: \*\*\*\*\*
- Login button

This Page for Producer Entry



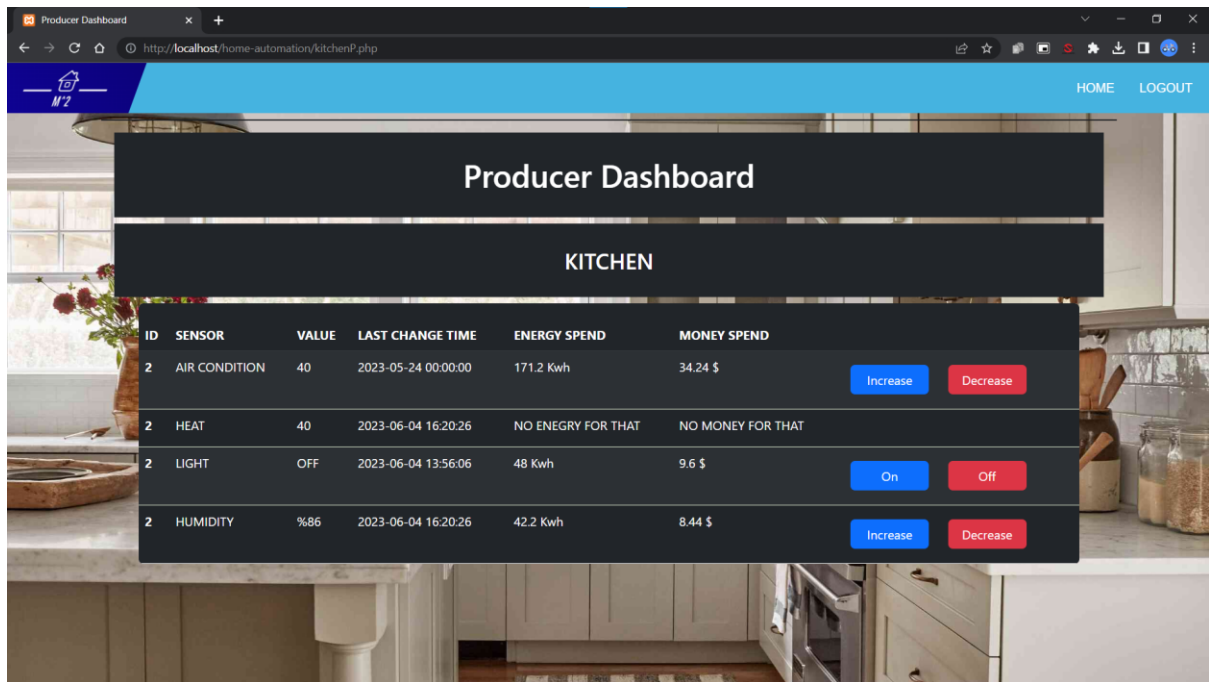
This Page for Access the Rooms



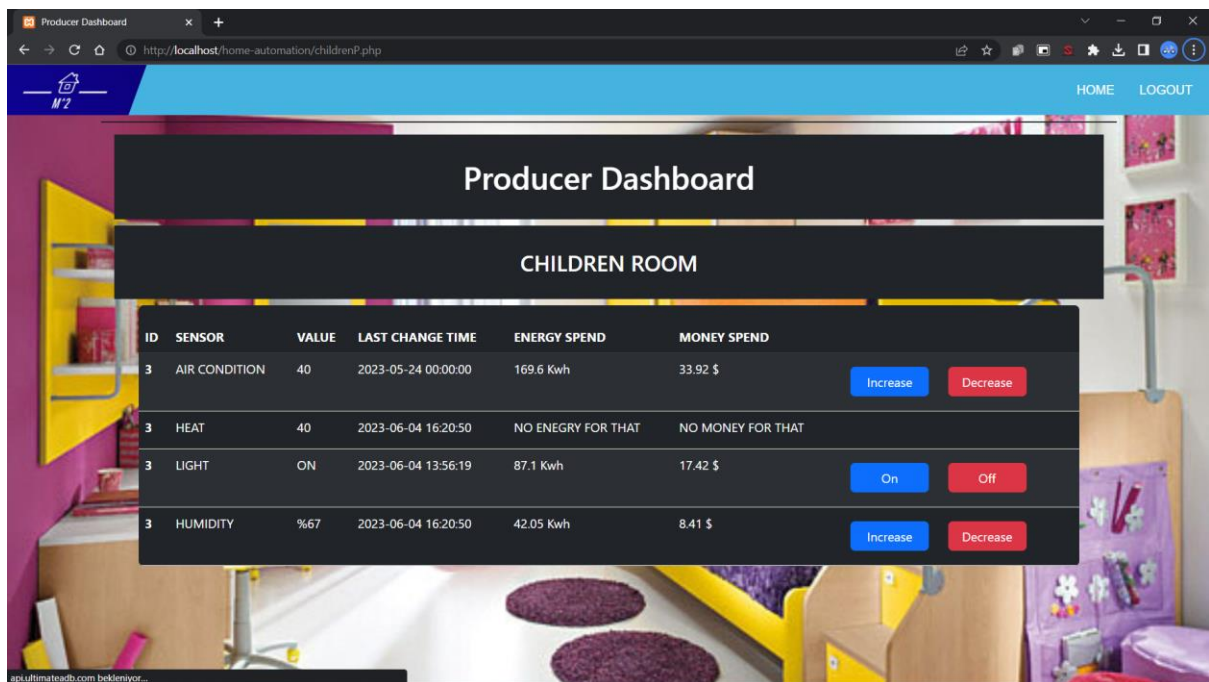
This Page Living Room Page for Producer

It has data from database .Page is dynamic.



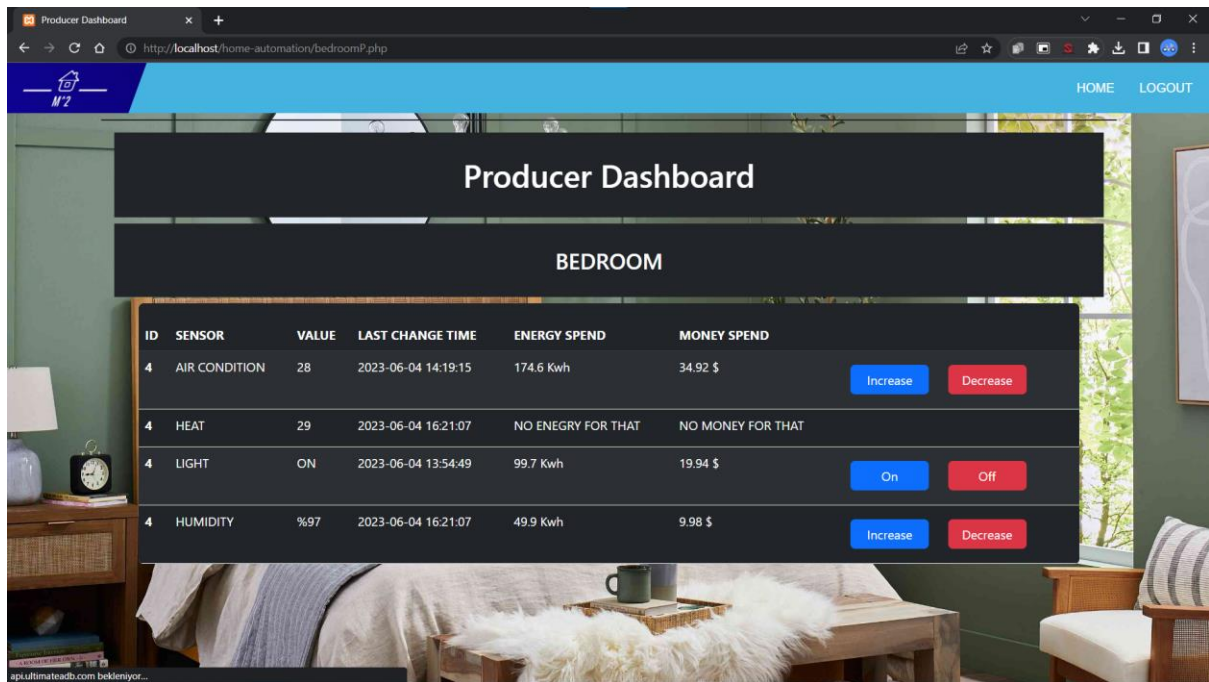


This Page Kitchen Page for Producer  
It has data from database. Page is dynamic



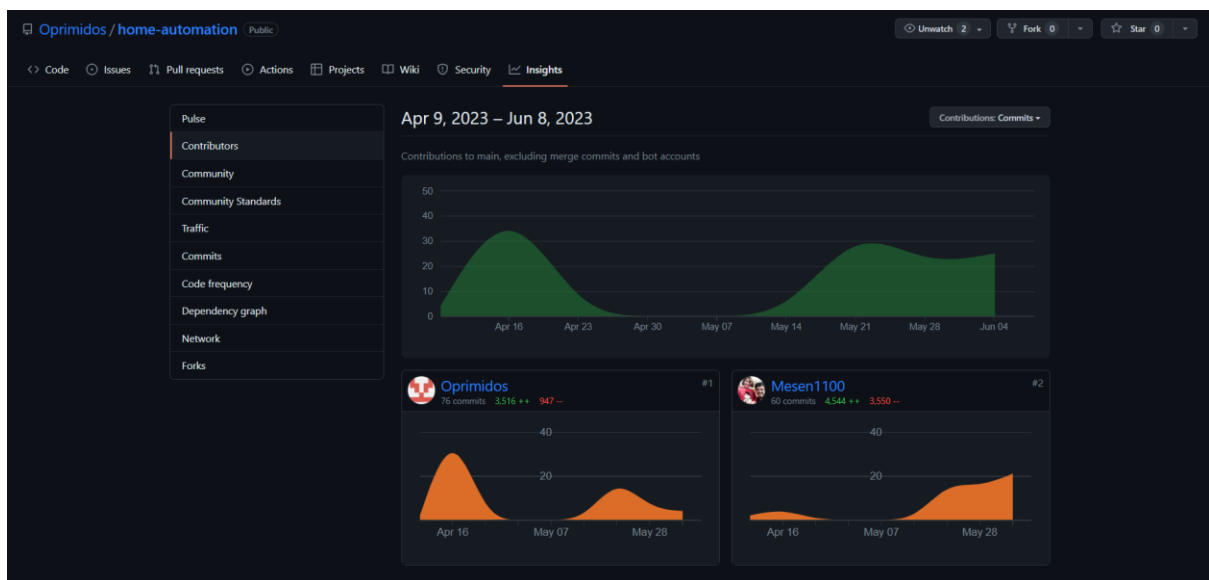
This Page Children Room Page for Producer  
It has data from database. Page is dynamic



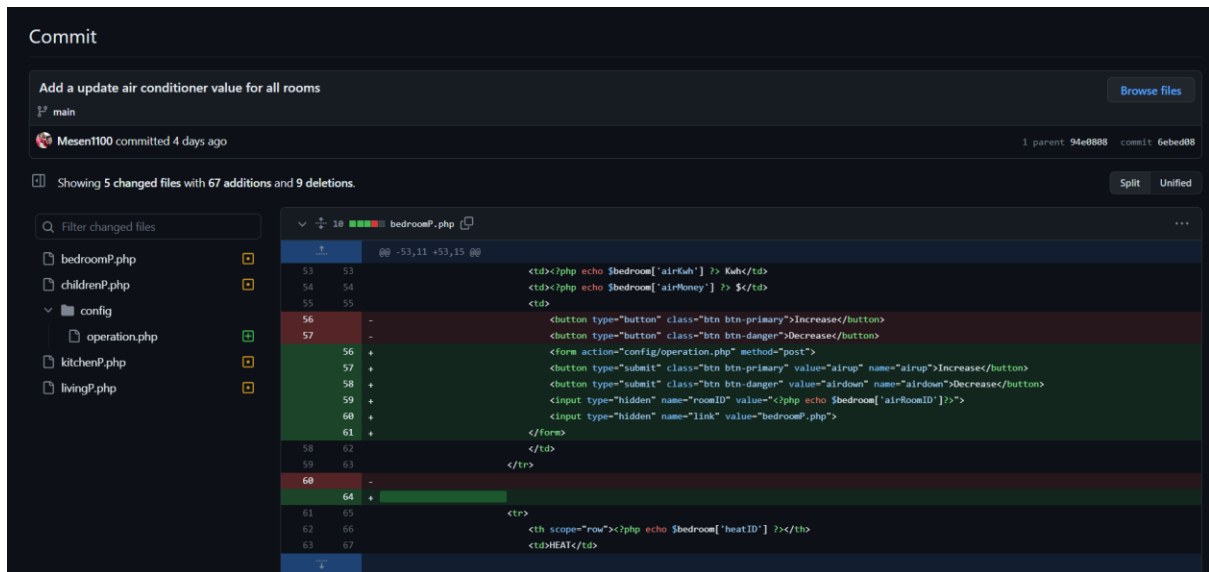


This Page Bedroom Page for Producer  
It has data from database. Page is dynamic

## GIT SCREENSHOTS

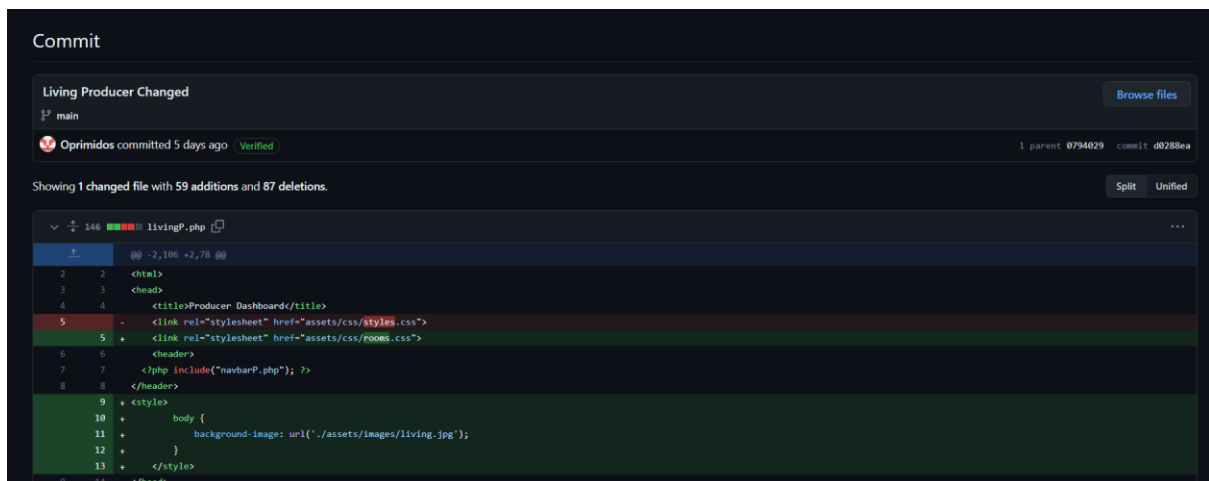


GIT Commit Contributors for Project



Example Commit Screenshot

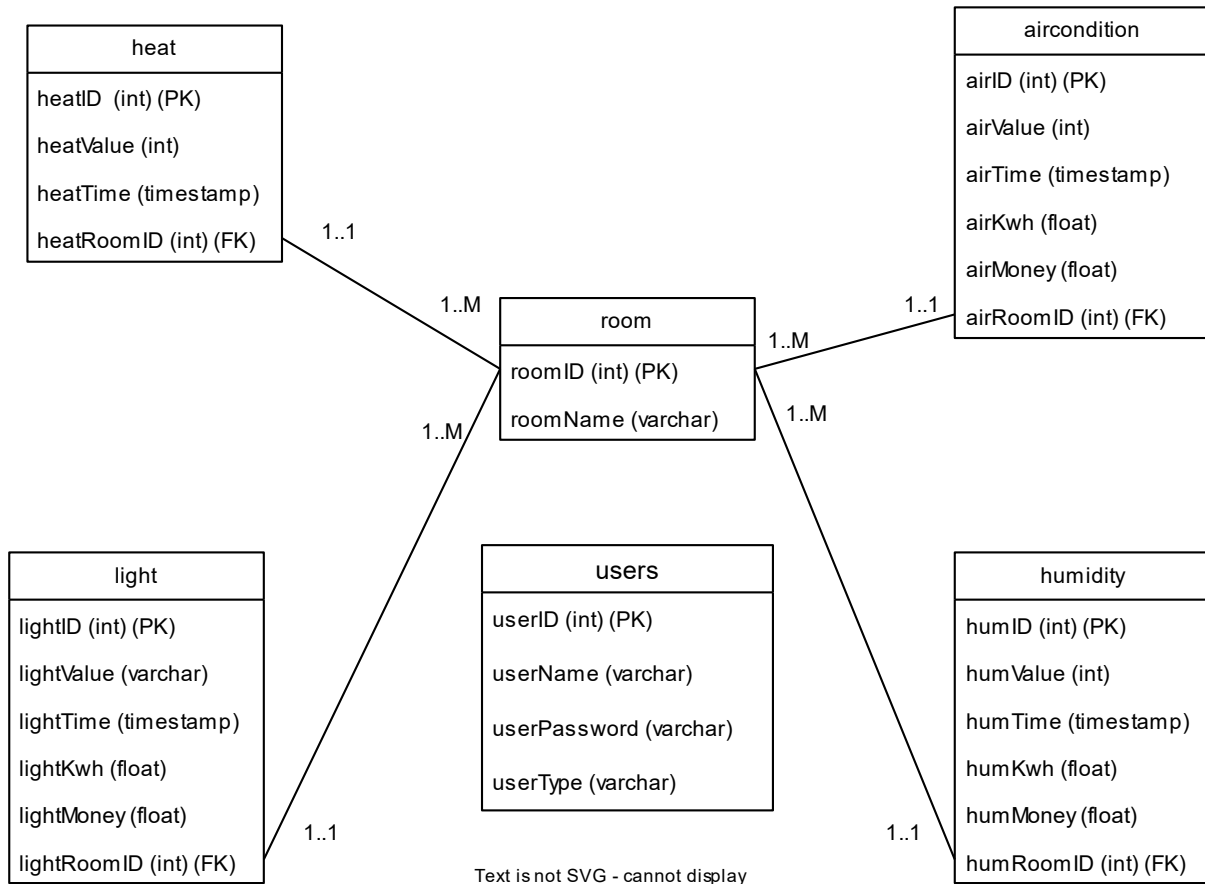
This Commit for add two button to Increase and Decrease for Air Conditioner



Example Commit Screenshot

This commit for change style for Living Room

# DATABASE FOR PROJECT

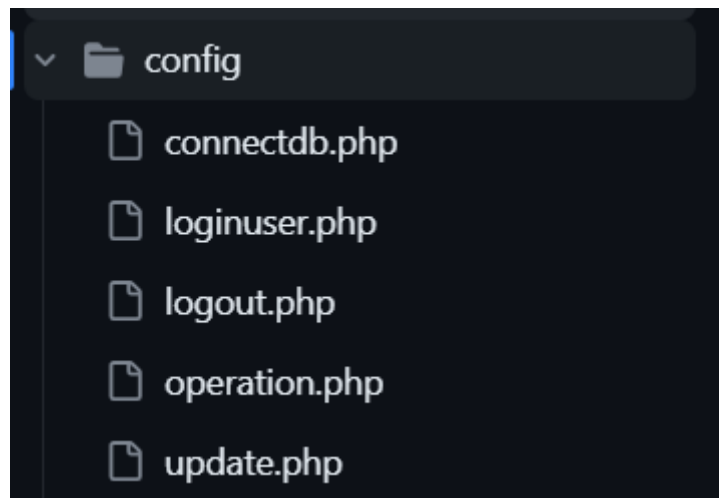


This is the ER Diagram for Database of Project.

And also We create a view so we can pull data easily. Example is below.

viewcunsomer		
roomID	lightID	heatRoomID
roomName	lightValue	humID
airID	lightTime	humValue
airValue	lightKwh	humTime
airTime	lightMoney	humKwh
airKwh	lightRoomID	humMoney
airMoney	heatID	humRoomID
airRoomID	heatValue	
	heatTime	

# SECURITY



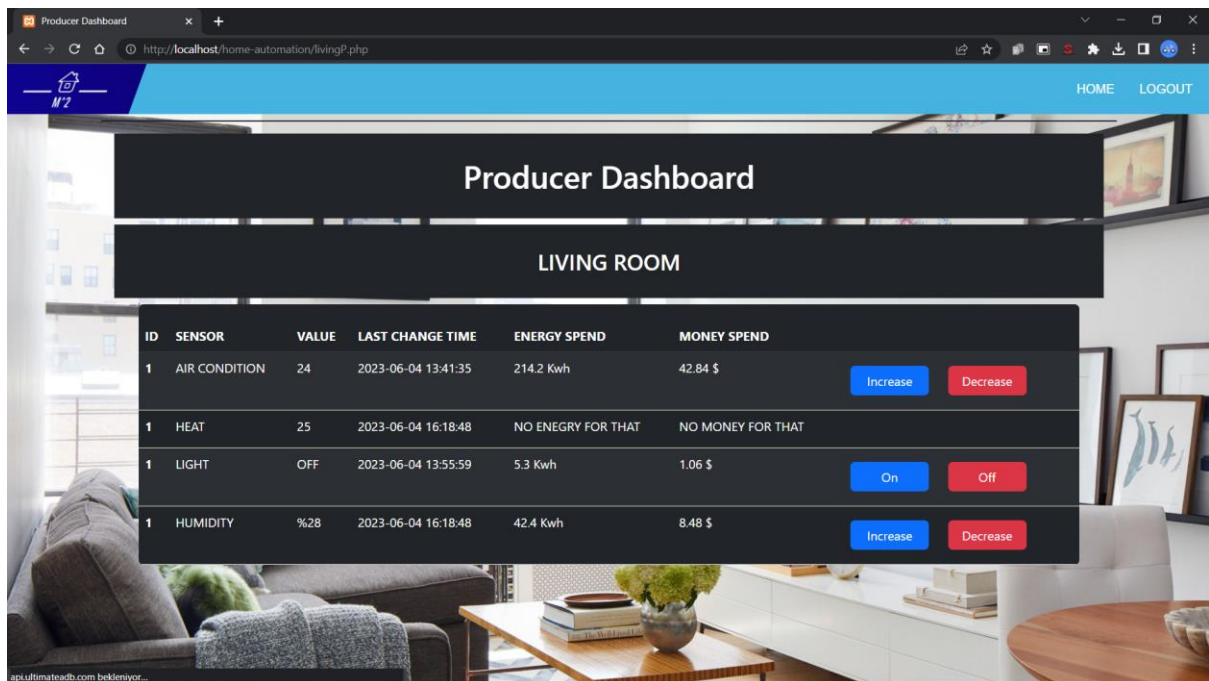
We use all CRUD operation out of main page because of Security so nobody can access our database information and password.

```
$userName = trim(htmlspecialchars($_POST["userName"]));  
$userPassword = trim(htmlspecialchars($_POST["userPassword"]));
```

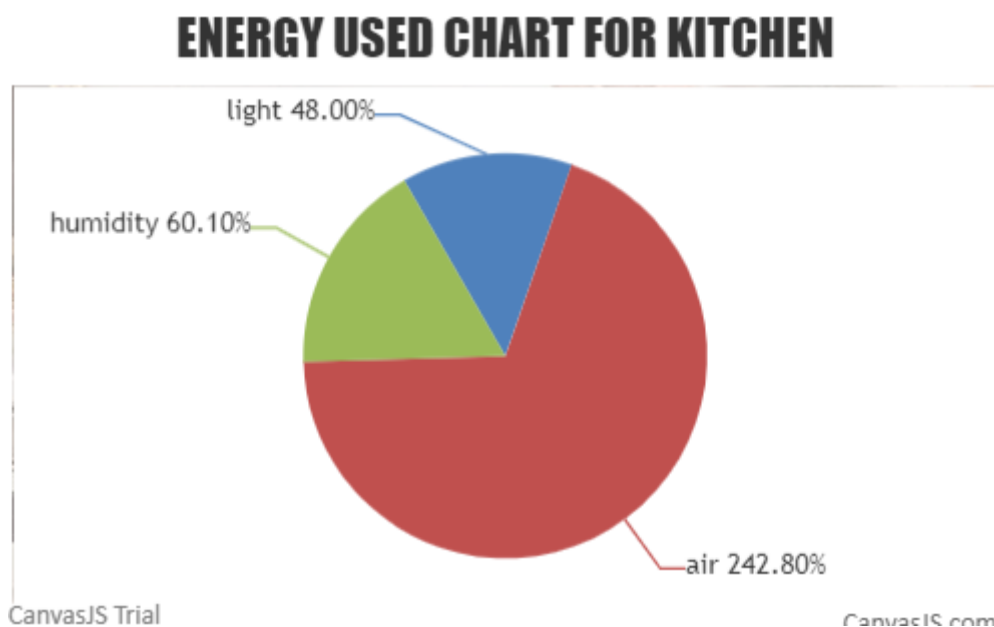
And Another security hole is someone can write special char for showing or download our code from server so we add this method.



# USER INTERFACE DESIGN PRINCIPLES



As you can see, on this page, all the pages, the information is provided with text, and the buttons are specified, and you can see exactly what the buttons are doing. We use learnability principle for that.



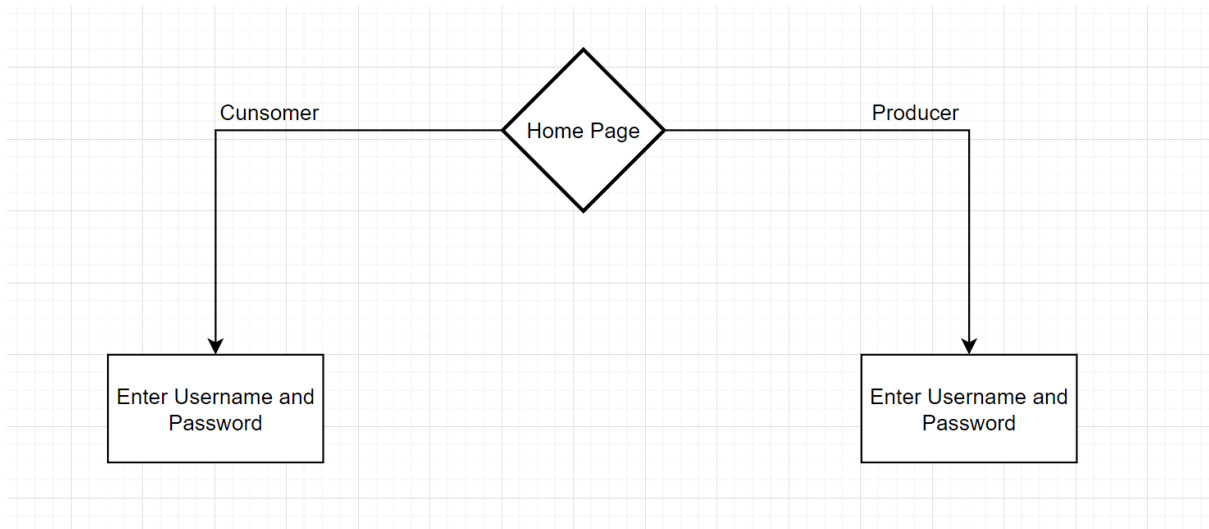
When using graphics, we used visibility principle by specifying which color represents which data. And also you can see the number in this scenario.

# USAGE FEEDBACK OF A THIRD PARTY TEST

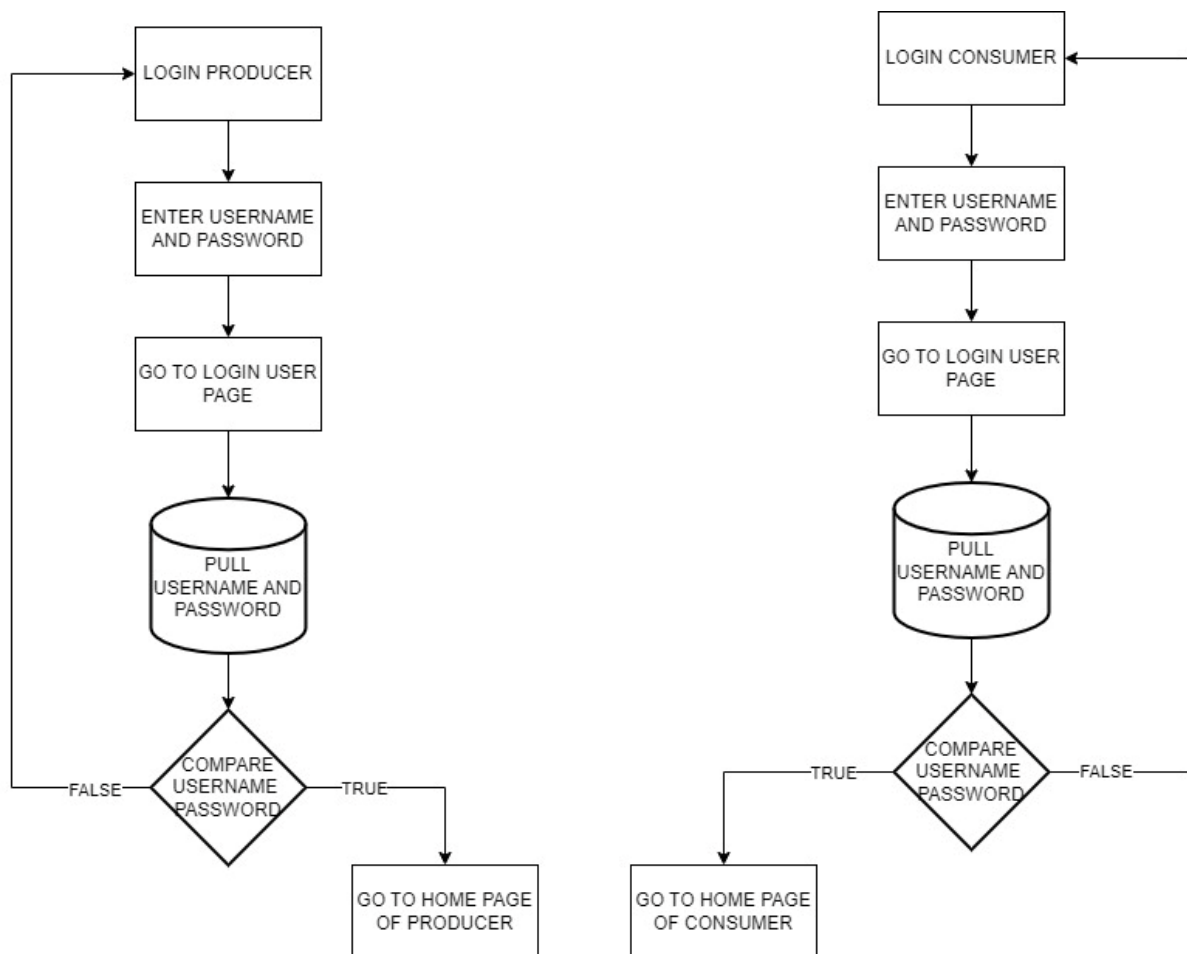
We ask to people give advice to us to develop website so we get below answer.

1. The login screen can be colorful.
2. The Home page screen background is very beatiful.
3. Money and Energy spend statistics are very useful.
4. The button design can be improved
5. Table color is good
6. The image for room and background are can be changed
7. In the home page , room design is very good.
8. The refresh every 10 seconds is useful for us.

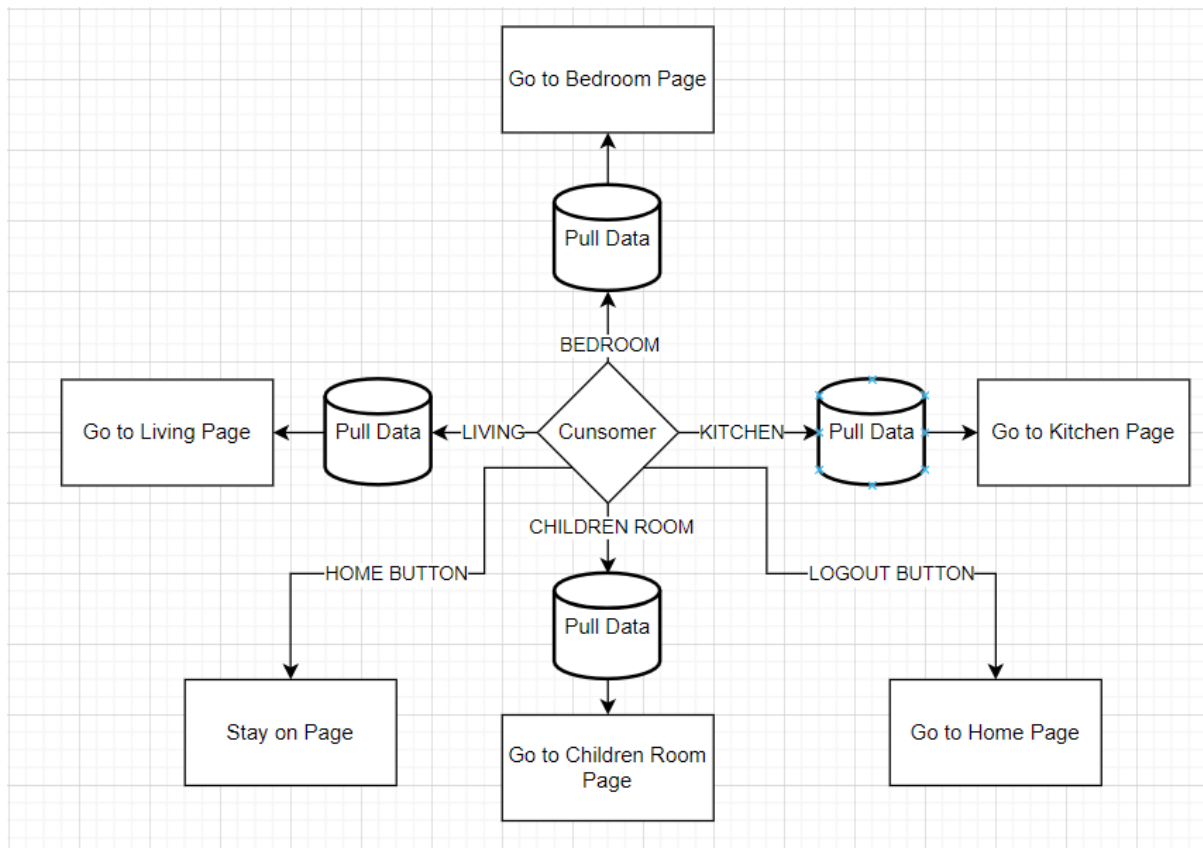
# WORKFLOW



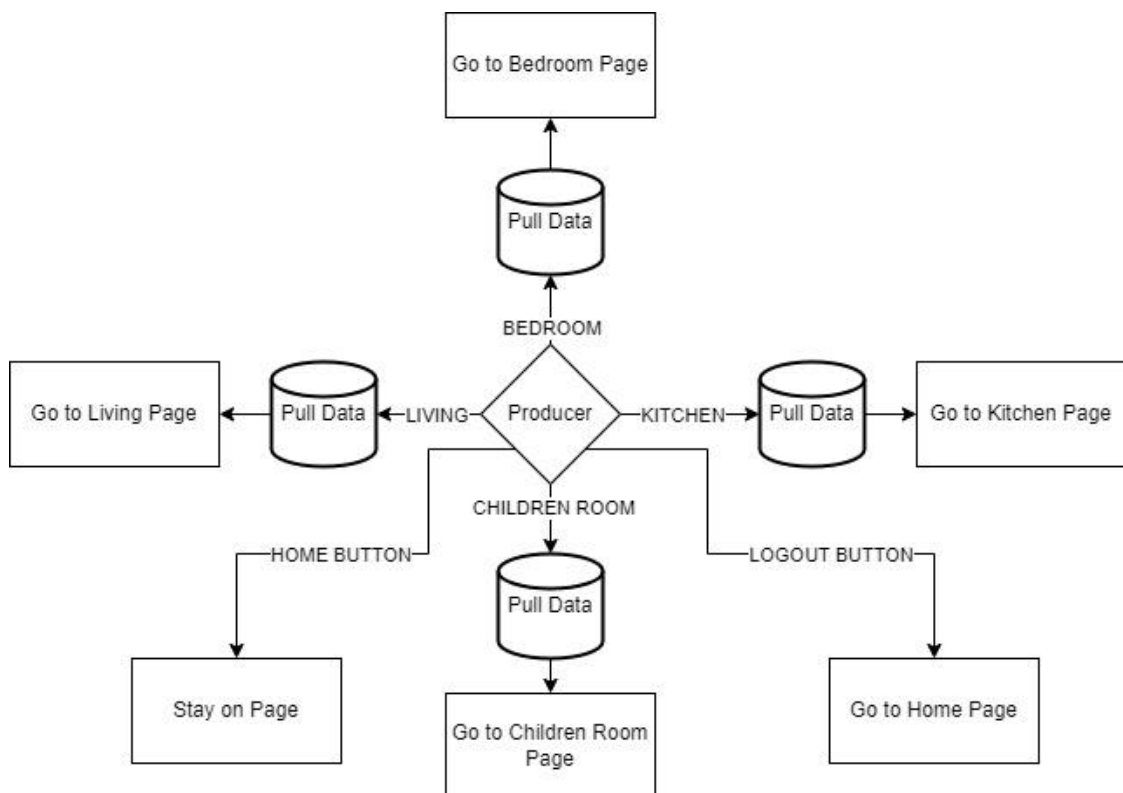
Home Page's workflow is easy to understand because has one function. Redirect to the entering page



Above Workflow is for login page both user (Producer and Consumer)

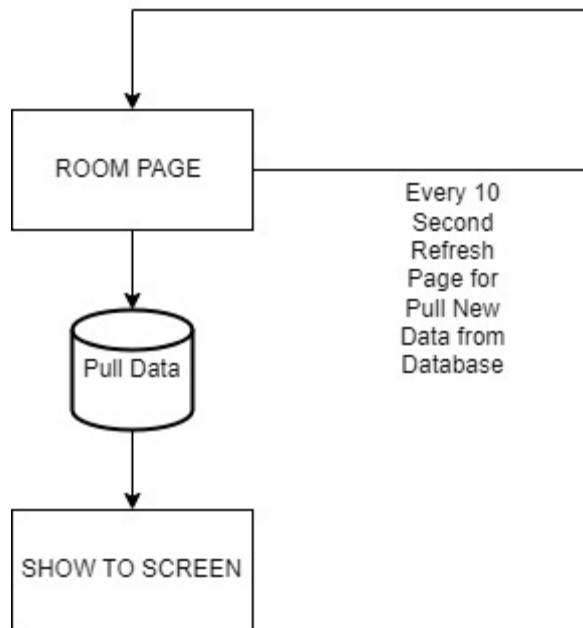


Consumer Workflow is little bit confusing but if you use one time, you will learn easily.

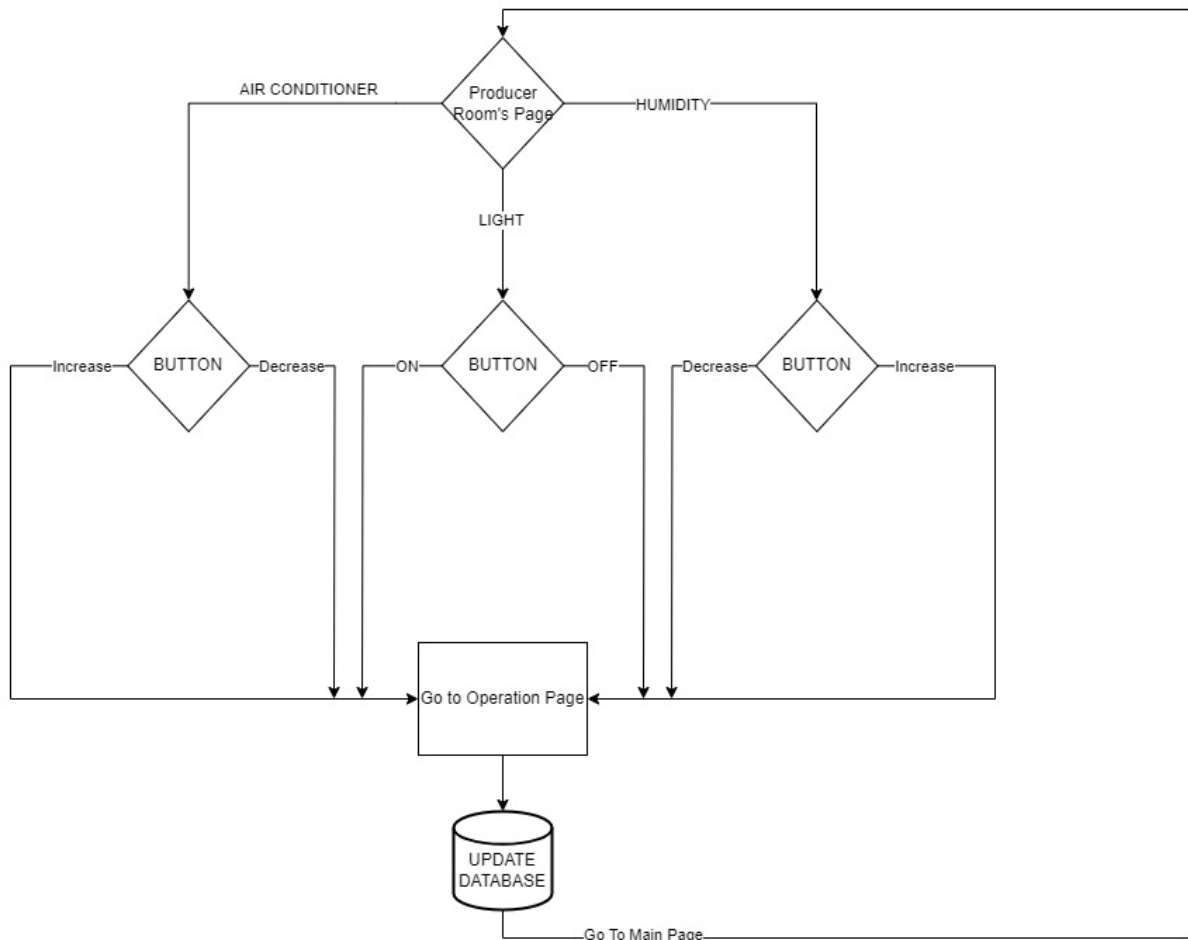


Producer Workflow is same as Consumer so if you learn one of this easy to learn other one.





Every Room Page Has some workflow like above. Heat and Humidity is dynamic value so we have to update data on the screen every 10 seconds.



Every Producer Room has same workflow and easy to understand.