

HOME AUTOMATION SYSTEM WEB PROJECT REPORT

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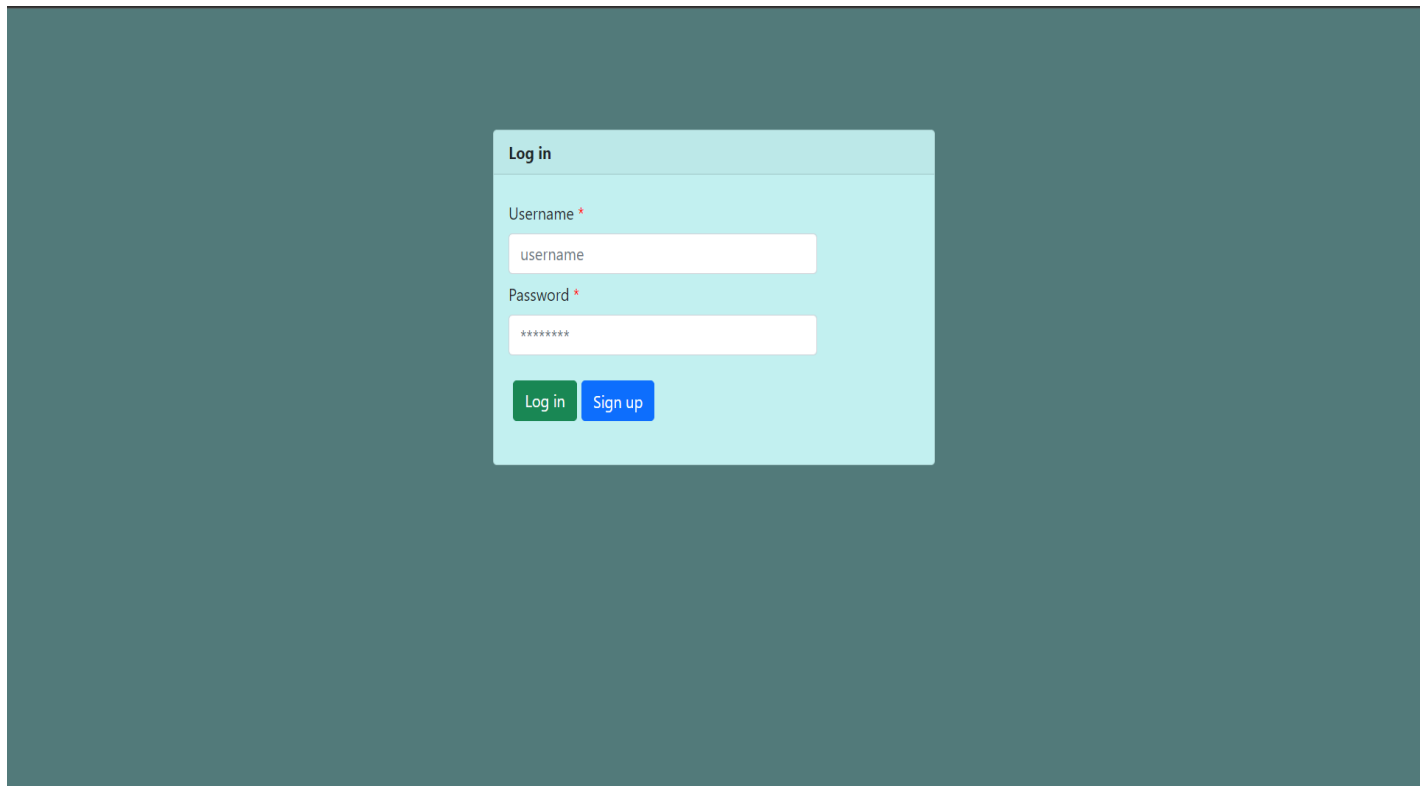
ID: 20200808009

GitHub: <https://github.com/hkose1>

Login page:

User can login using the username and password.

In the login page s/he can switch between login/signup page easily.



The screenshot shows a login page with a light blue background. A white login form is centered, containing fields for Username and Password, and buttons for Log in and Sign up.

Log in

Username *

username

Password *

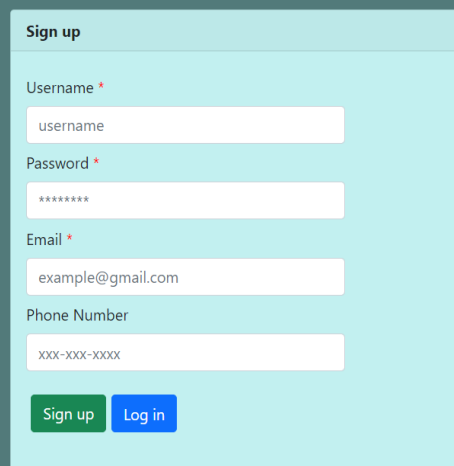
Log in Sign up

Signup page:

If a user wants to sign up s/he must provide at least username, password, and email.

Phone number is optional.

In the sign-up page s/he can switch between login/signup page easily.



The image shows a 'Sign up' form on a dark teal background. The form is a light blue rectangle with a title 'Sign up' at the top left. It contains four input fields: 'Username' with a red asterisk, 'Password' with a red asterisk, 'Email' with a red asterisk, and 'Phone Number'. The 'Username' field contains the text 'username', the 'Email' field contains 'example@gmail.com', and the 'Phone Number' field contains a placeholder 'XXX-XXX-XXXX'. Below the fields are two buttons: a green 'Sign up' button and a blue 'Log in' button.

Sign up

Username *

username

Password *

Email *

example@gmail.com

Phone Number

XXX-XXX-XXXX

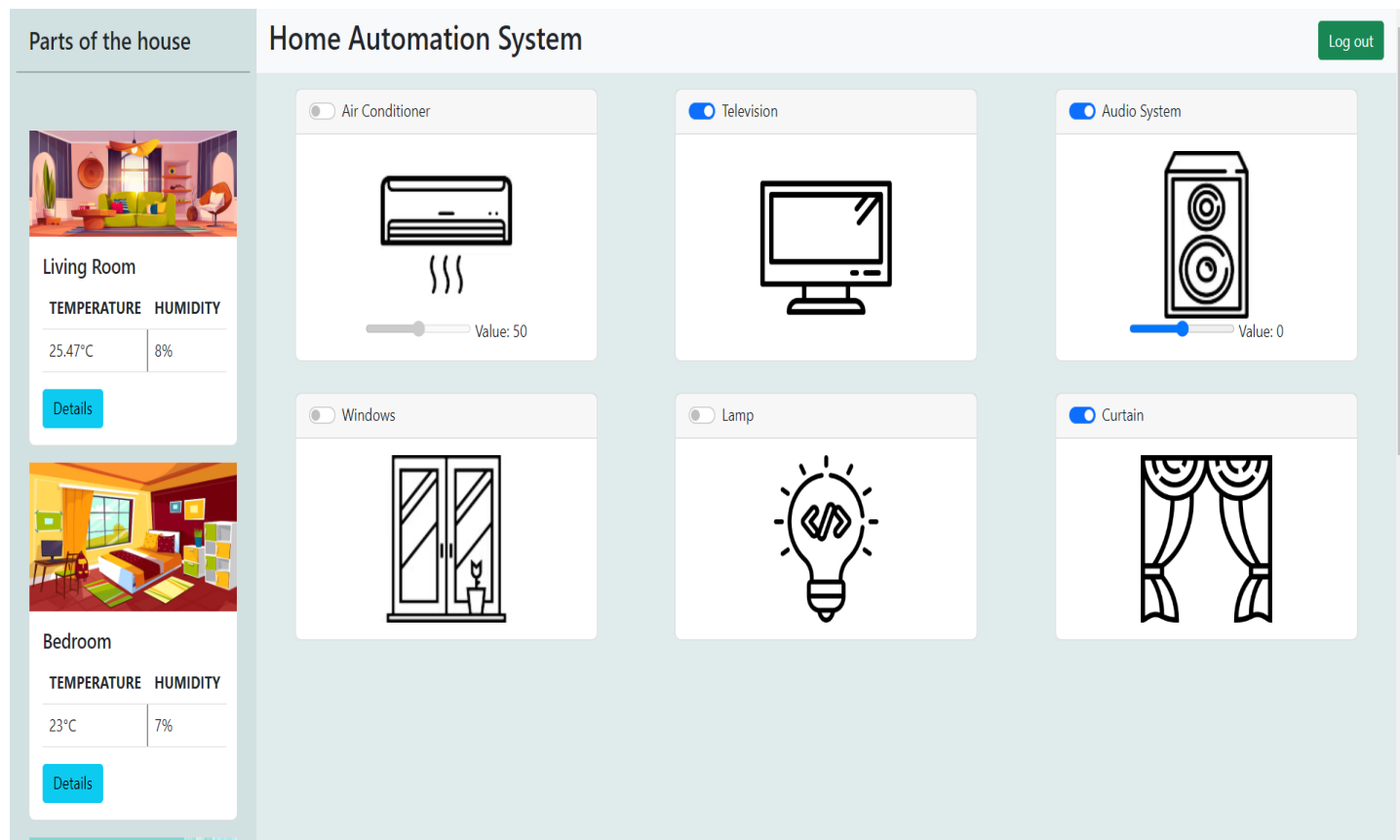
Sign up Log in

Home page:

On the left-hand side there are parts of the house and user can choose one of the rooms to see more details and manage devices for that room.

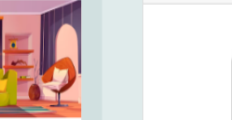
Additionally, it gives information about the state of the room like it's temperature and humidity.

As we can see when a device is close user can't control the device attributes.



When a device enabled:


Parts of the house



Living Room

TEMPERATURE	HUMIDITY
25.47°C	8%

Details





Bedroom

TEMPERATURE	HUMIDITY
23°C	7%


Details

Home Automation System



☒ Air Conditioner


 Value: 50

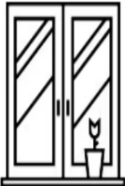
☒ Television




☒ Audio System


 Value: 0

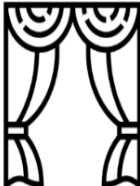
☐ Windows



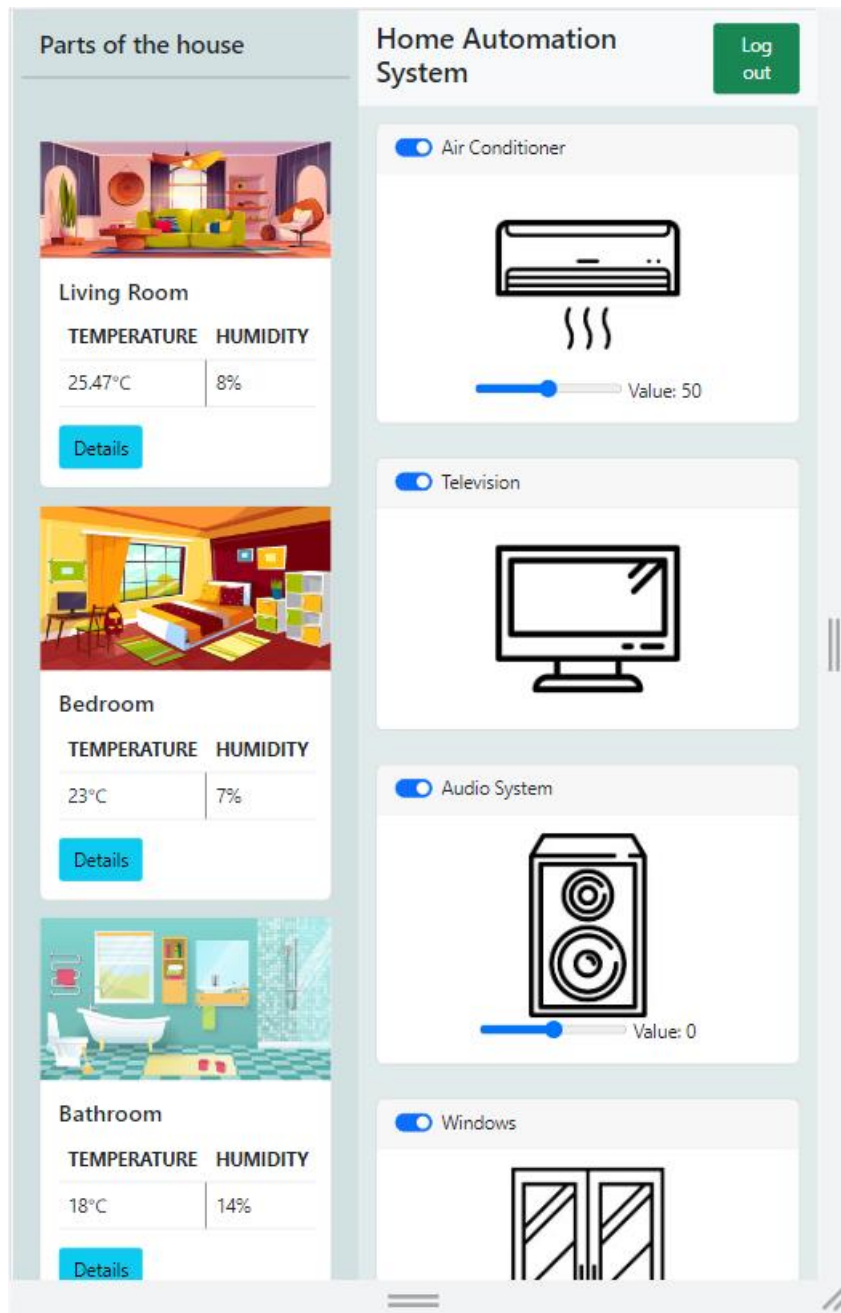
☒ Lamp



☐ Curtain



For mobile:



Database:

An user table to hold user data.

For the system to work we must provide data for room table.

Initially it has to have:

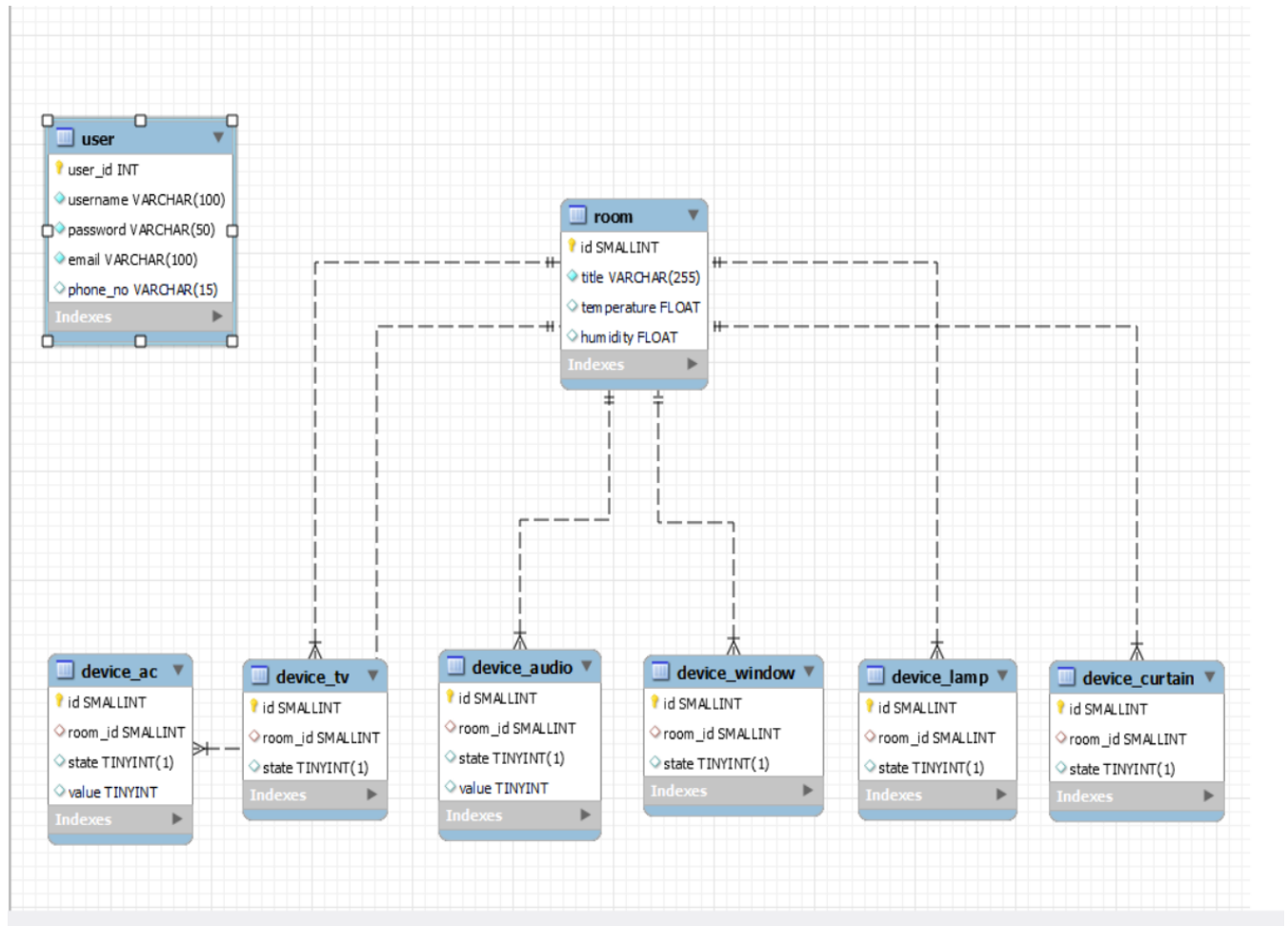
Id->1 for living room,

Id->2 for bedroom,

Id->3 for bathroom,

Id->4 for kitchen.

The each device in the system holds room_id as a foreign key to locate the device to correct room.



How to run the project:

1. Database connection:

- Run the SQL script file which under the assets folder in your MySQL. You should uncomment one query at a time and then run.
- Add manually rooms to the room table and it should have 4 rooms:
 - Id->1 living room,
 - Id->2 bedroom,

Id->3 bathroom,

Id->4 kitchen

- Change the connection arguments (username and password inside PDO constructure) to your own MySQL for those files which under the db folder.
- Add manually some device to see on the site.

2. Sign up:

- You must provide username, password and email however phone number is optional.
- Your username must be unique otherwise you cannot sign up.

3. Log in:

- Enter your username and password to log in. if you don't have an account yet you can click just the sign up button and then can create an account.

4. Home page:

- On the left-hand side there are parts of the house, and you can choose one of that rooms to see more details about that specific room also you can see temperature and humidity on the left-hand side.
- Each room has its own devices, and you can control them such as opening the lights, closing the windows etc.

5. Log out:

- You can click just log out button which locates on the top right of the screen.