

CSE_236 WEB DEVELOPMENT MIDTERM PROJECT REPORT FOR HOME AUTOMATION SYSTEMS

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Project's github page: <https://github.com/Algos70/Home-automation>

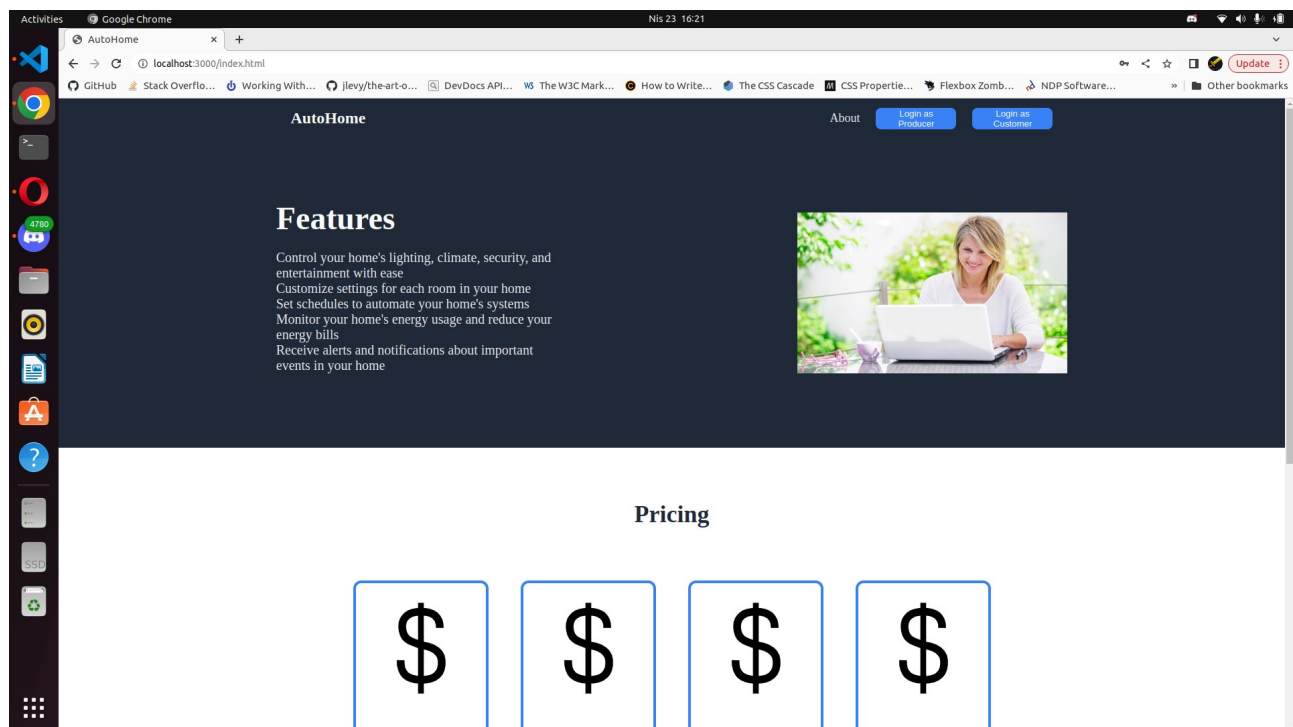
To login Use these parameters please:

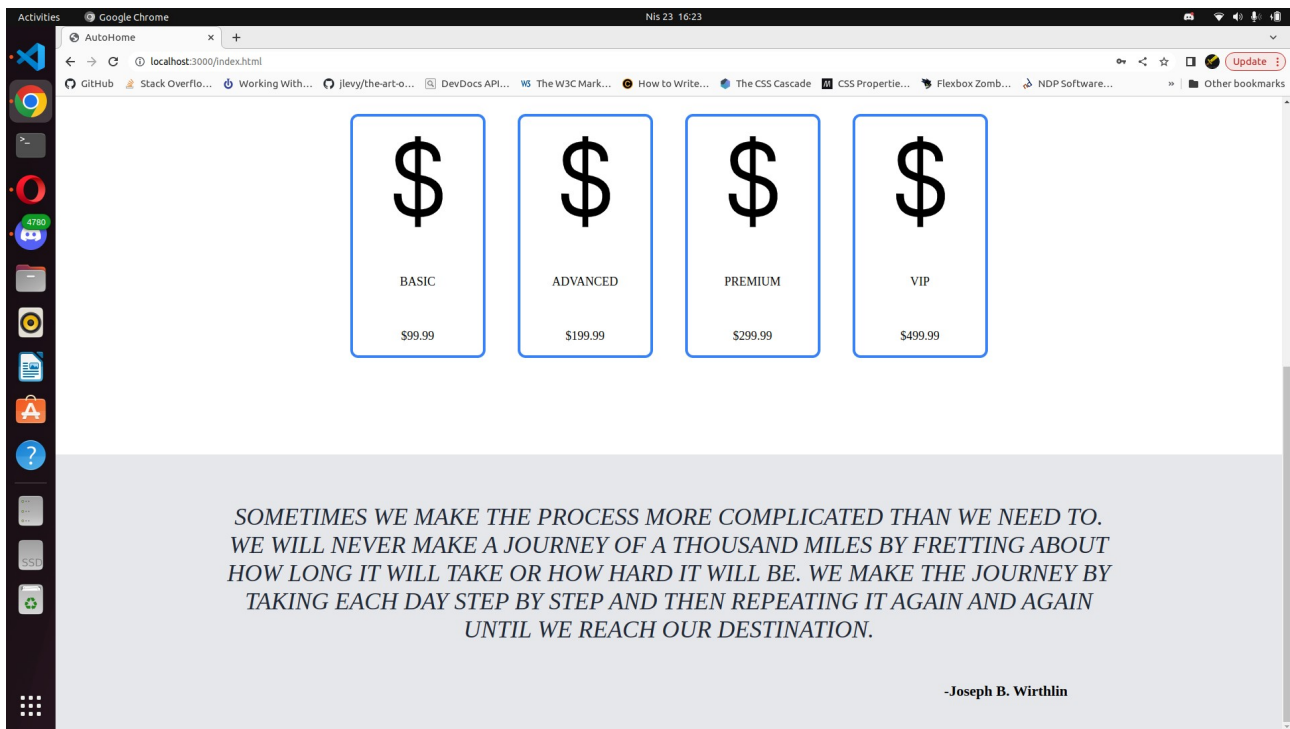
producer email: b@gmail.com
producer password: 123

consumer email: a@gmail.com
consumer password: 1234

1)Landingpage:

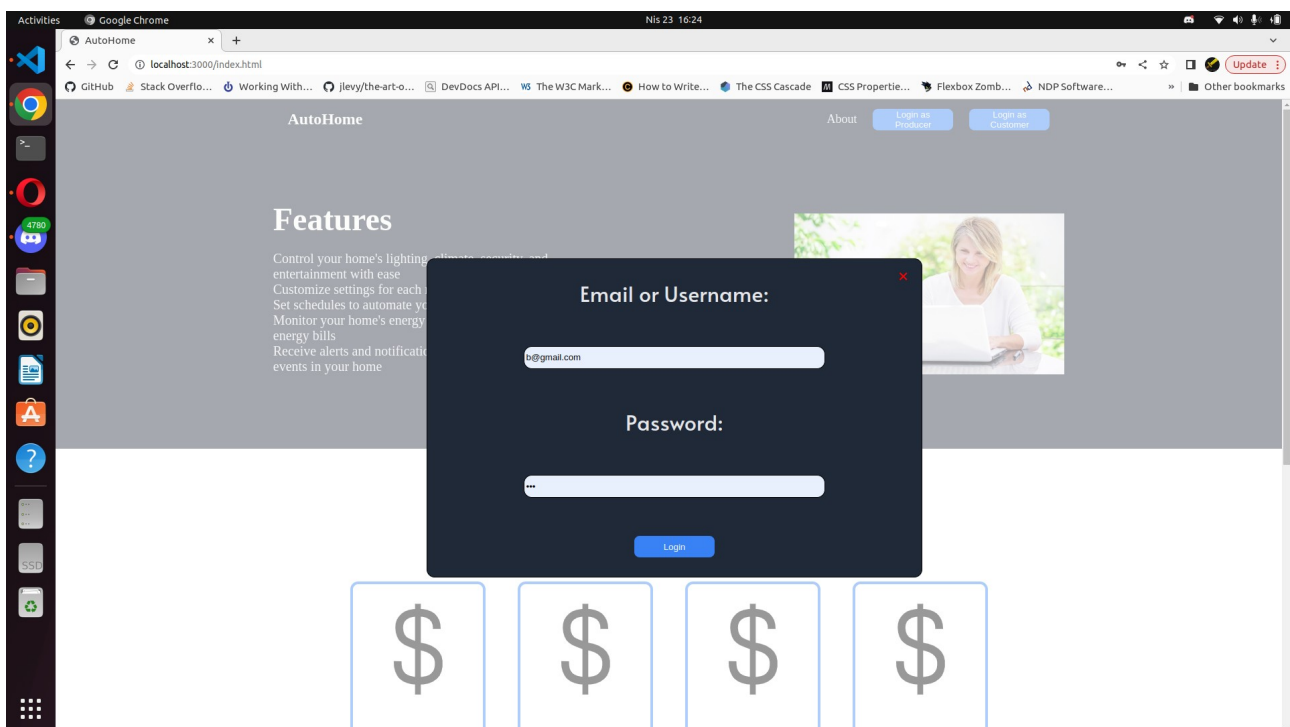
- There are 2 different buttons for login. One for the customer another one for the producer.





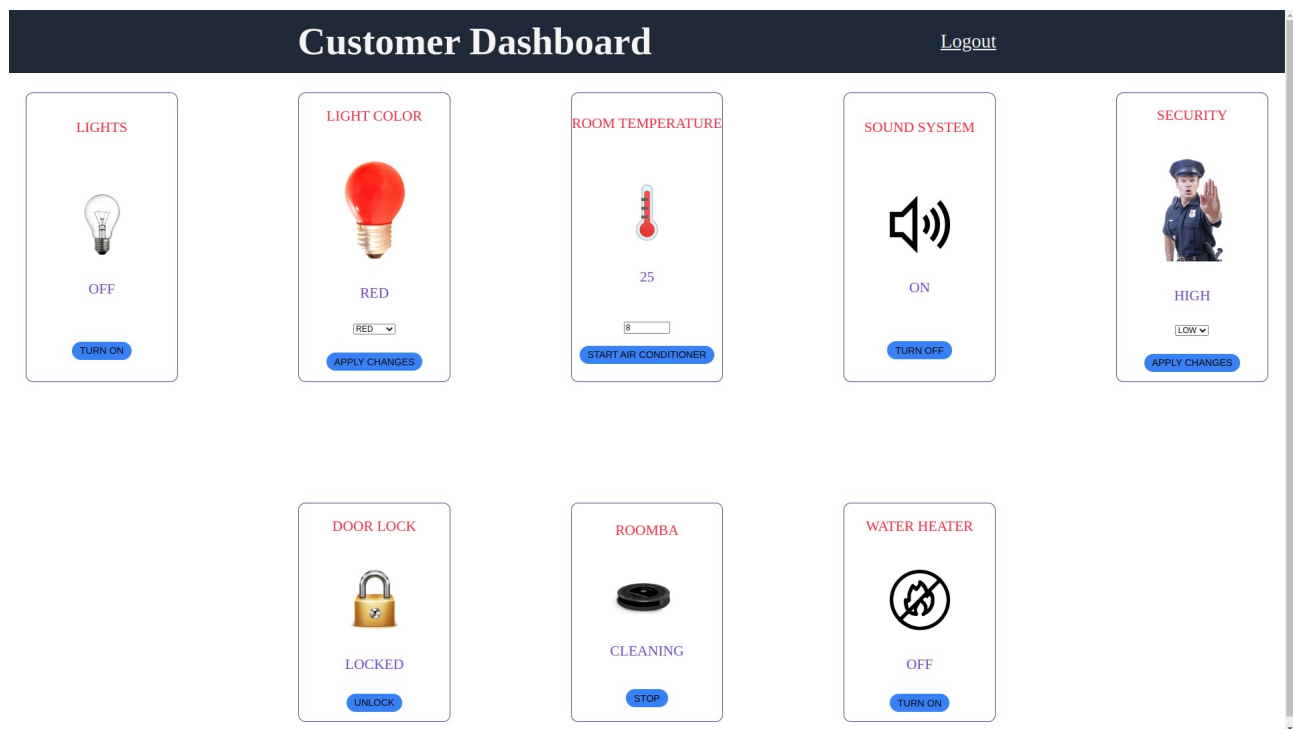
2)Login:

- Both producer and consumer have the same UI for login.
- A proper email is required to login
- Password is not shown to the user during login



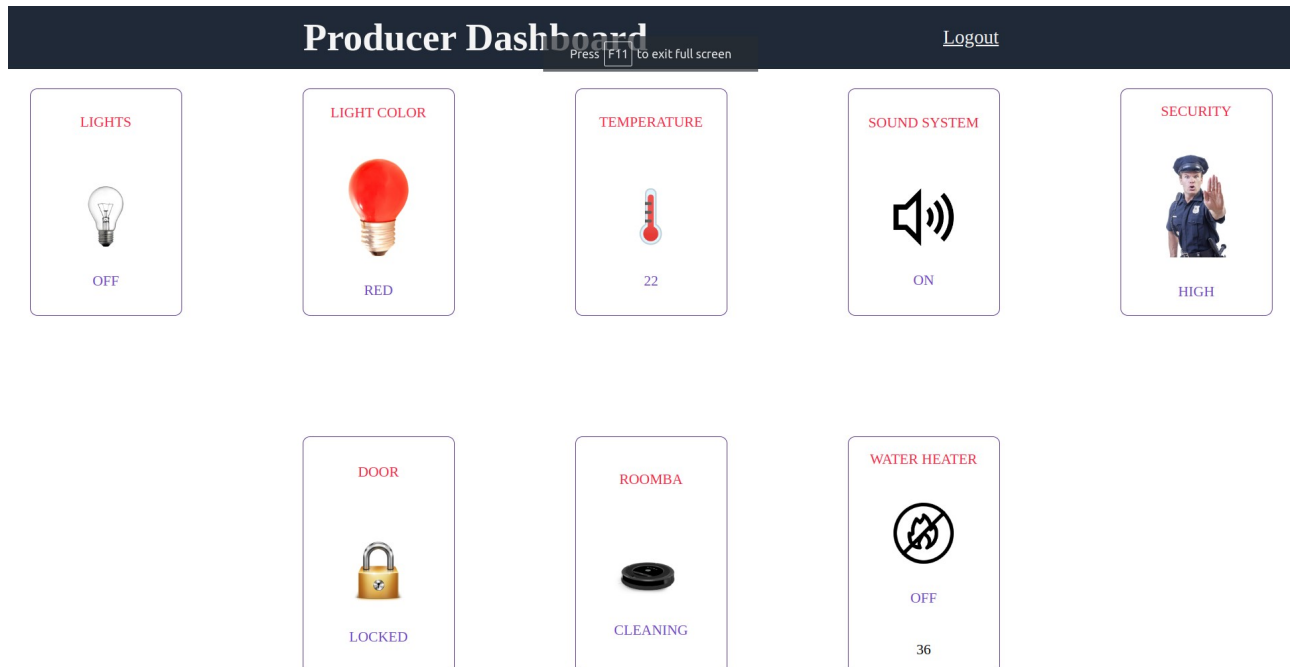
3)Customer Dashboard:

- By pushing the buttons you can update them and change their contents accordingly. Some of the button's names are dynamically changing as you push on them. For example after pushing the 'TURN ON' button in the customer dashboard, lights state that was 'OFF' before will become 'ON' on the screen and the button name will become 'TURN OFF'.
- Some devices has buttons, some has a drop-down select boxes as well as an input box to update the database.
- The site remembers your settings when you login again later.
- The images are changing accordingly to your choices



4)Producer Dashboard:

- The page reloads itself after every 5 second to refresh the data presented to user.
- You can see the changing values of temperature and water heater
- You can click logout to go to the landing page. (You have to sing in again)
- You can observe the customer's devices' states on this page although producer can't change them.



Workflows:

-To open the Customer Dashboard

- 1) Open the landing page
- 2) Click the customer login button
- 3) Enter the customer's e-mail and password

-When you already have Access to customer dashboard you can:

- 1) Turn on or turn off your lights.
- 2) Change the color of home's lights
- 3) Change the rooms temperature with air conditioner
- 4) Turn on or turn off the sound system
- 5) Change the security system of the house
- 6) Lock or unlock the doors(exterior door, balcony doors and garage doors)
- 7) Start the roomba to clean your house or send it to charging
- 8) Turn on the water heating system of the house to heat the water in the water tank
- 9) Logout

-To open producer dashboard

- 1) Open the landing page
- 2) Click the producer login button
- 3) Enter the producer's e-mail and password

-When you already have access to customer dashboard you can: 1) See the data displayed to user

2) Logout

Planning:

We begin with designing all the UIs in paint. After that we decided the order of pages to start coding. It was going to be like this:

1- Landingpage, index.html

Used HTML to design the page layout

2- Style of the landing page, style.css

Used CSS to style the landing page

3- UI of the login in the landing page

Used html forms in landing page to send inputs to login.php

4- login.php file

Checks whether the password and email are correct. There is 2 user here either customer or producer.

5- Customer dashboard, customer.php

Interacts with mockdata.txt file to update and get wanted values.

6- Dashboard style css file

CSS file for styling dashboards

7- Producer dashboard, producer.php

Connects with mockdata.txt to get the data and show them to the user.