CSE_236 WEB DEVELOPMENT MIDTERM PROJECT REPORT FOR HOME AUTOMATION SYSTEMS

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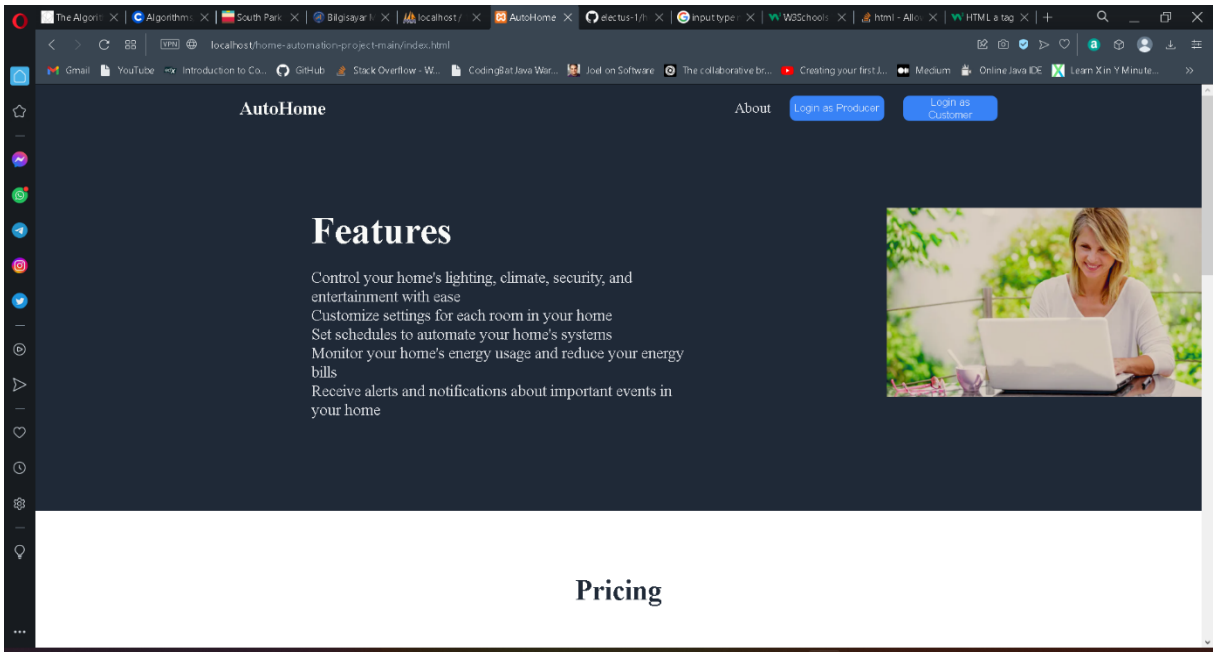
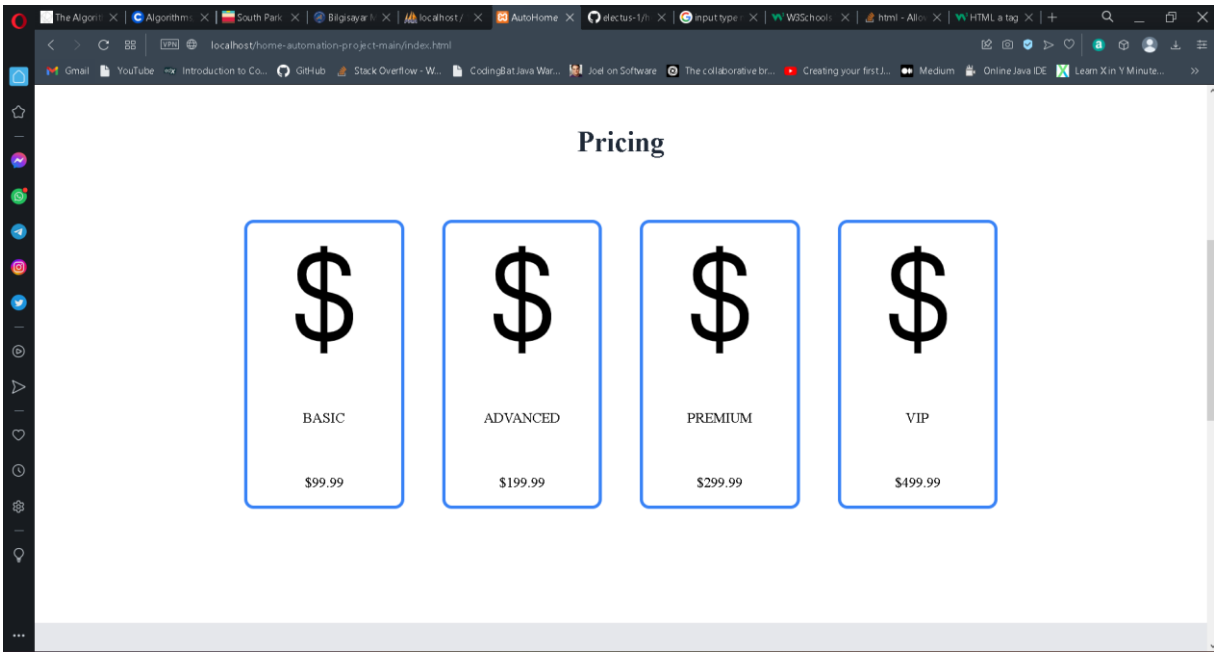
Project's github page: https://github.com/Algos70/Home-automation

1)Landingpage:

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

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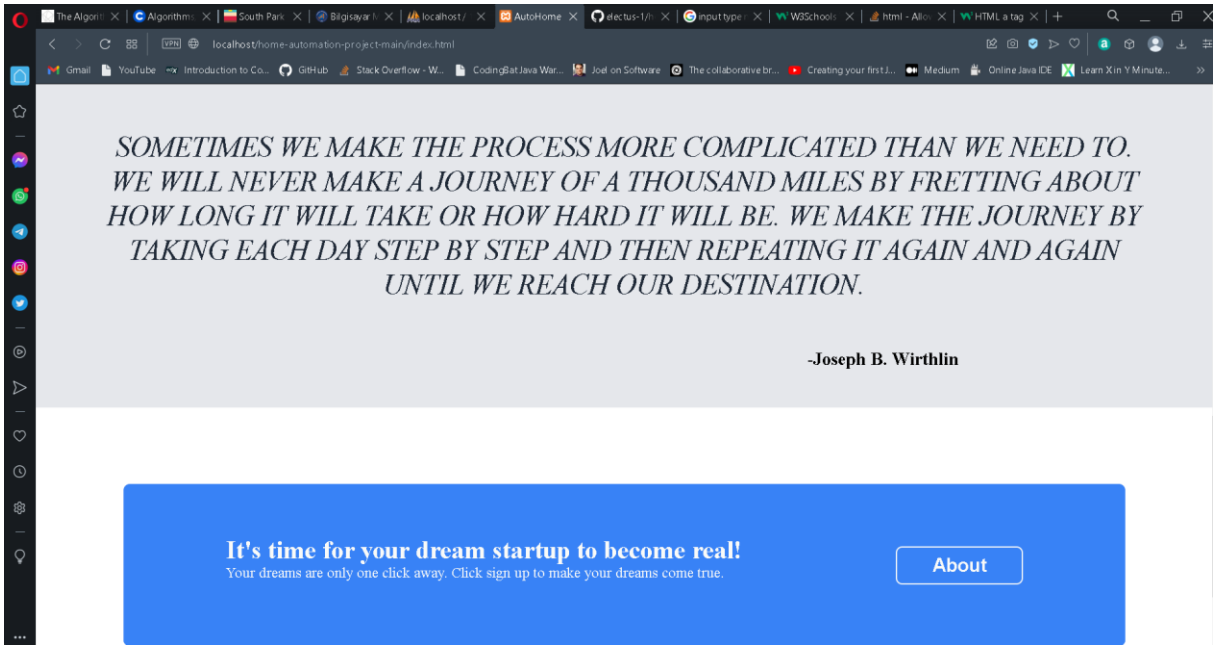
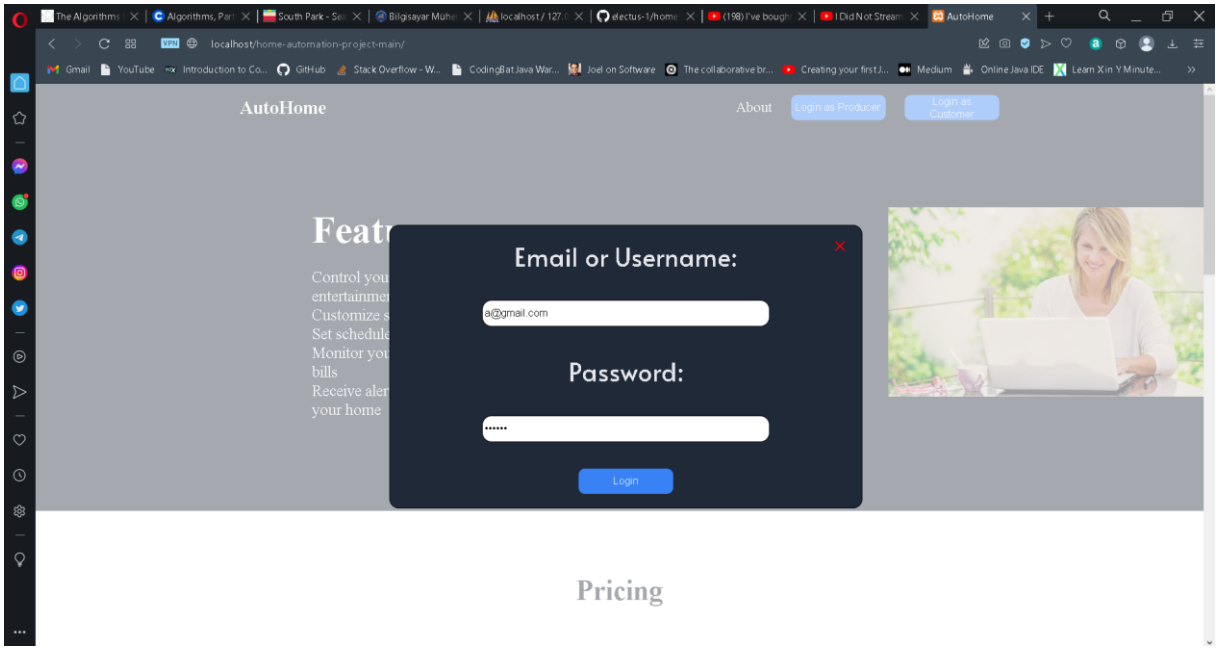

SOMETIMES WE MAKE THE PROCESS MORE COMPLICATED THAN WE NEED TO. WE WILL NEVER MAKE A JOURNEY OF A THOUSAND MILES BY FRETTING ABOUT HOW LONG IT WILL TAKE OR HOW HARD IT WILL BE. WE MAKE THE JOURNEY BY TAKING EACH DAY STEP BY STEP AND THEN REPEATING IT AGAIN AND AGAIN UNTIL WE REACH OUR DESTINATION.
-Joseph B. Wirthlin
It's time for your dream startup to become real!
Your dreams are only one click away. Click sign up to make your dreams come true.
About

2)Login:

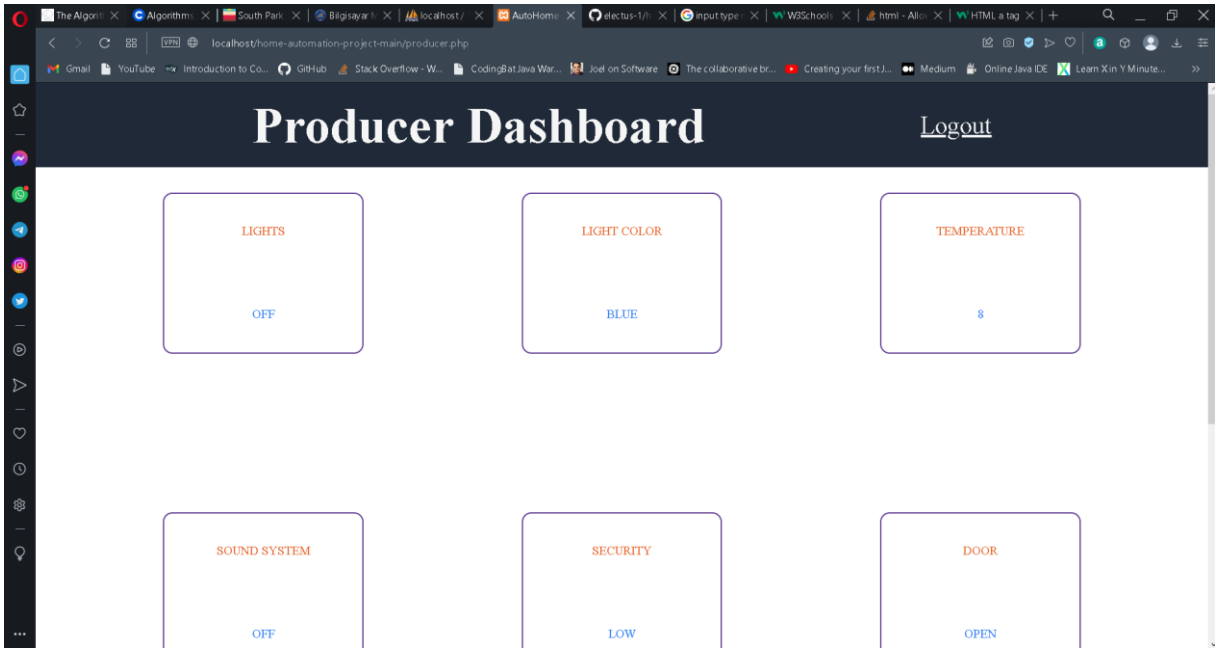
-Both producer and consumer have the same ui for login.

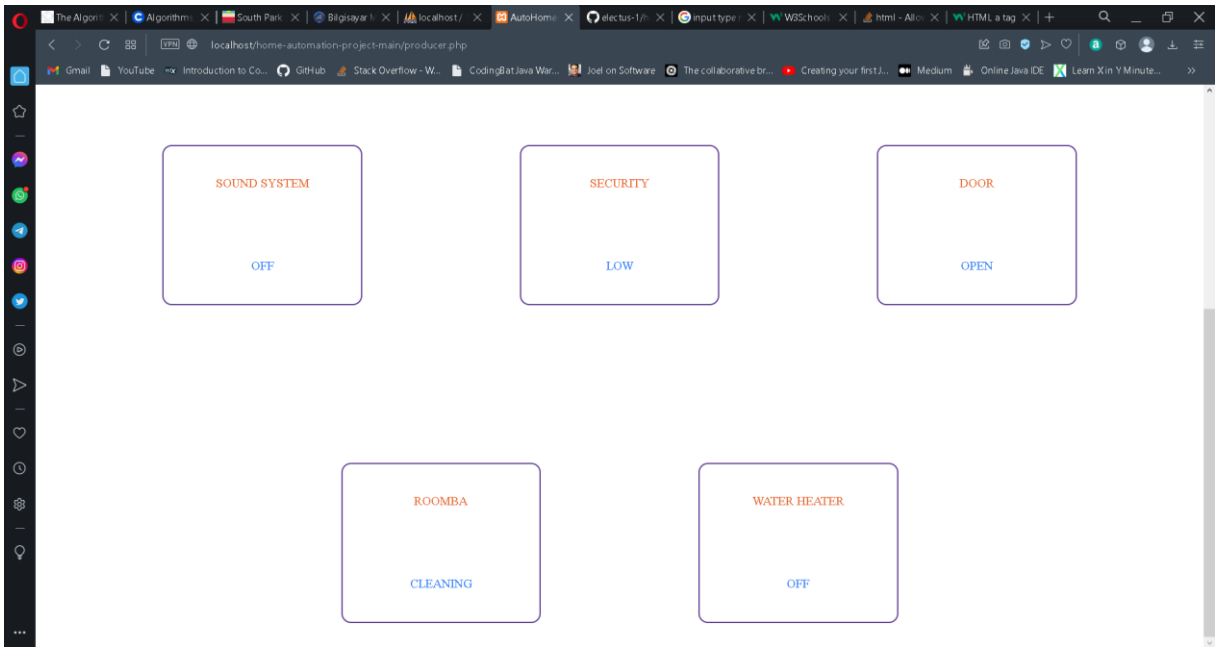


3)Producer Dashboard:

-All the states of devices are connected to the sql database, when the database changes the states of the devices changes as well.

-You can click logout to go to the landing page. (You have to sing in again).



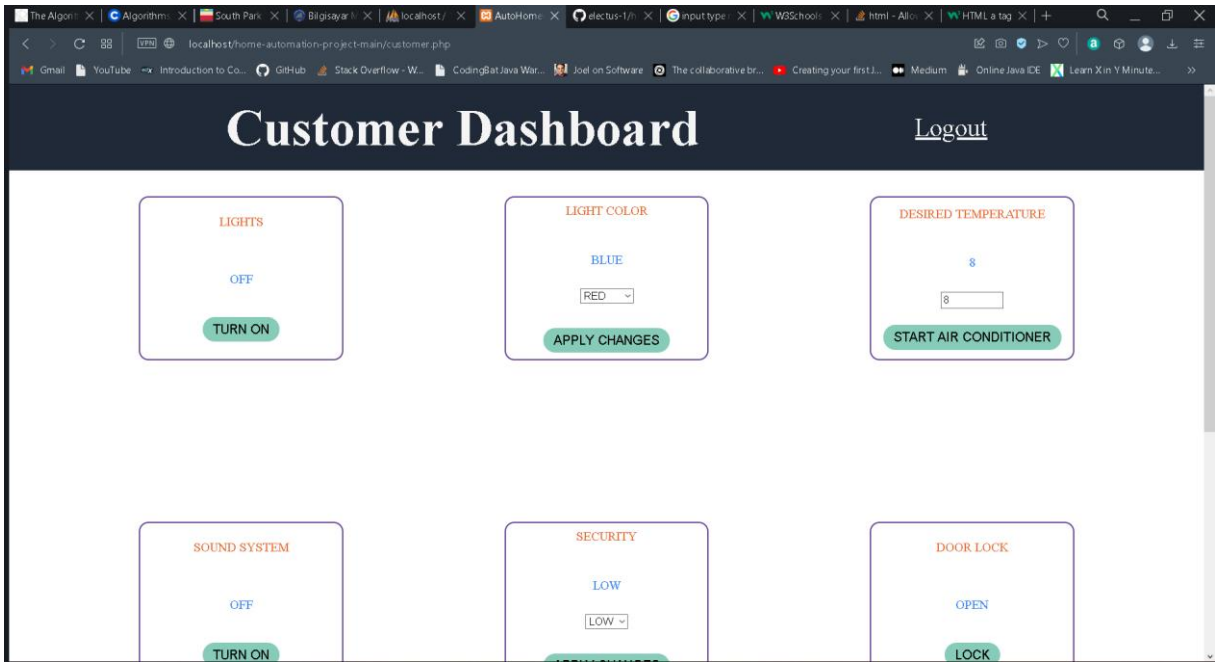


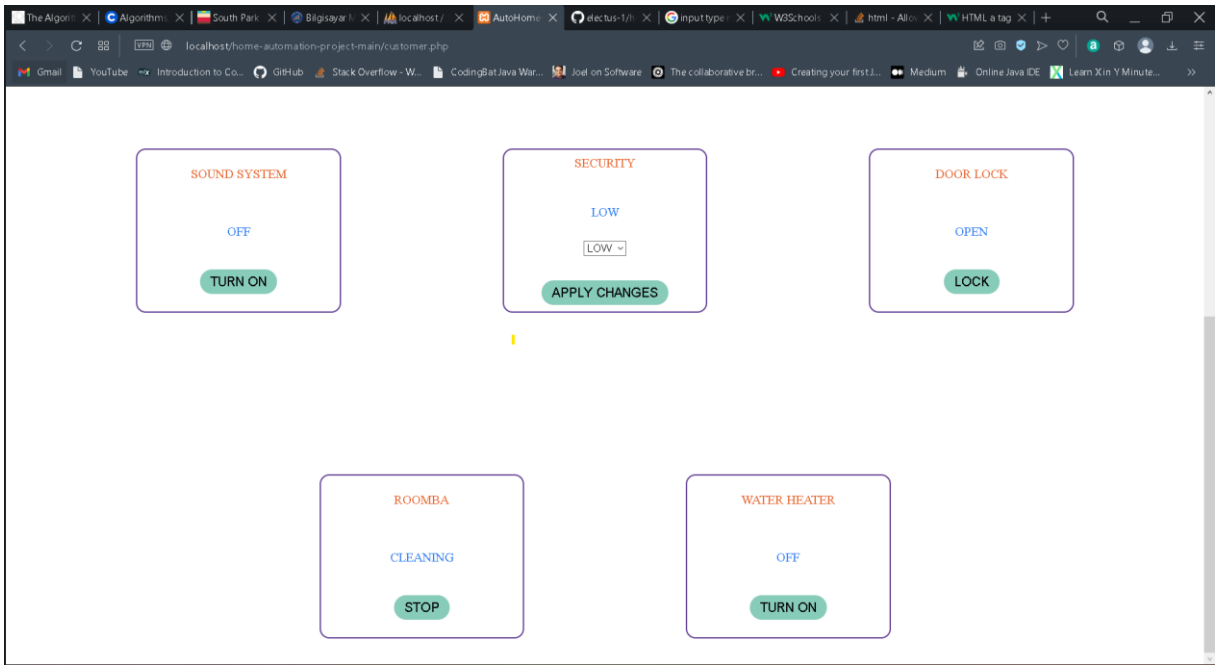
4)Customer Dashboard:

-By pushing the buttons you can update the sql database. Some of the button's names are dynamicaly 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 buton name will become 'TURN OFF'.

-Some devices has buttons, some has a dropdown select box as well as an input box to update the database.

-All the states of devices are connected to the sql database, when the database changes the states of devices changes as well.





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 tempature 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 chargeing
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 desing 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
   Used local sql database to confirm wheter the email and pasword are correct with php in a secure way then according to the result of this we sent them to appropriate pages(If they are admin direct to producer.php, if they are consumer direct to consumer.php)
5- Customer dashboard, customer.php
   Connects to the database and takes data from the database or updates the database with mysqli queries.
6- Dashboard style css file
   CSS file for styling dashboards
7- Producer dashboard, producer.php
   Connects to database and takes data with mysqli queries and displays them to user.