Specification Document

Whole-link

Team C

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The purpose of the our project

The main objective of our project is to make lives better. And we are Connecting people and everything around them with an invisible line to form the Internet of Things. It is an extension and expansion of the network based on the Internet. It is a huge network formed by combining various information-sensing devices with the network. It realises the interconnection of people, machines, and things in their house wherever they are, whenever they want.

Requirements

- Temperature sensor
- Humidity sensor
- Gas sensor (Carbon Monoxide sensor, Formaldehyde sensor)
- Infrared sensor (Human body sensing door, lamp, curtain, opening and closing of electrical equipment with infrared switch)
- Device with Reliable Internet Connection
- Web Browser
- HTML , PHP
- DBMS(NaviCat), My SQL
- Apache Services

Scope of Our Project

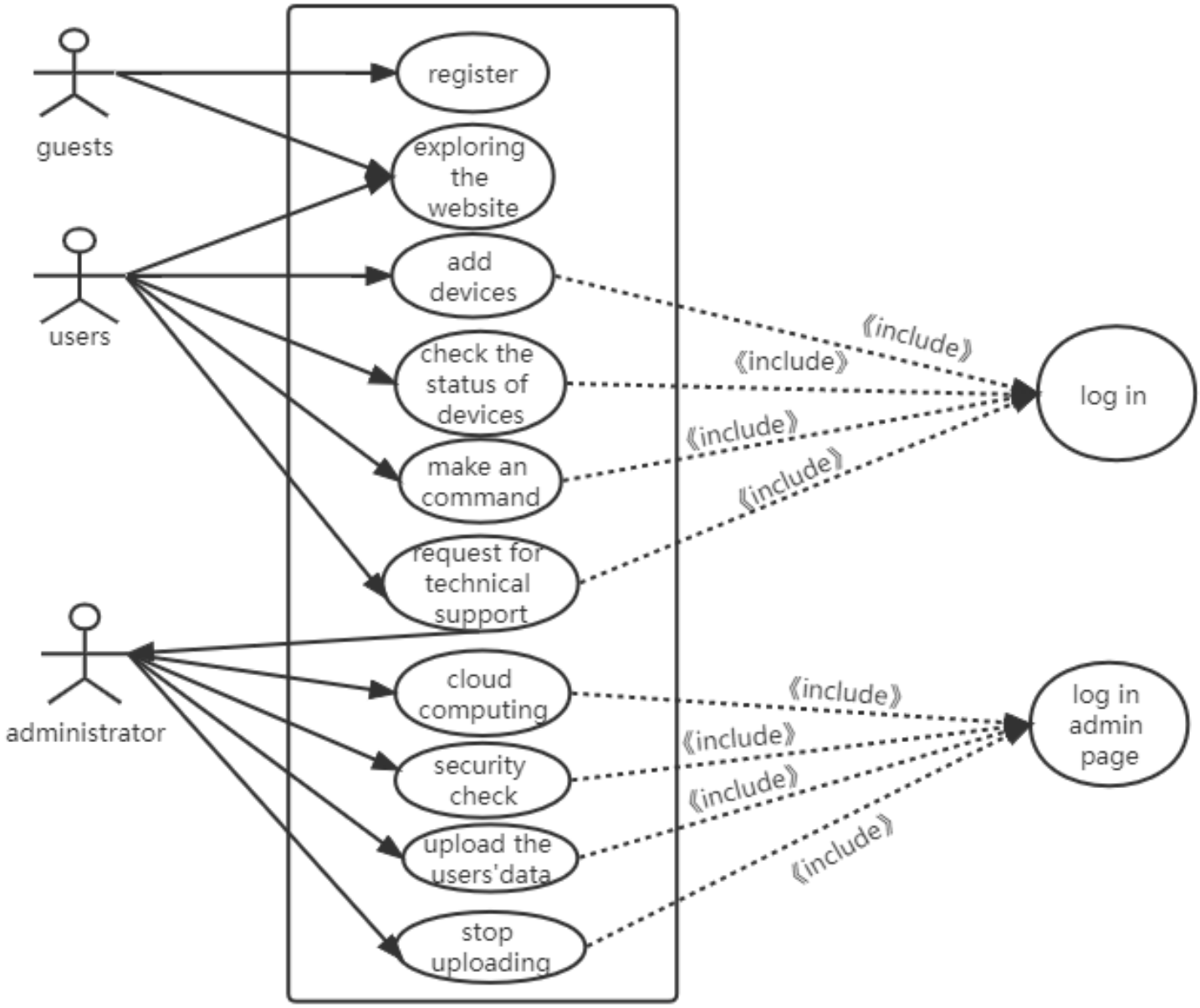
- We can take control of every device you have with a single device.
- With robust AI, all your task has been automated and helps in time management.
- Your privacy is well protected with a secured infrastructure.
- Well designed and reliable website.

List of features

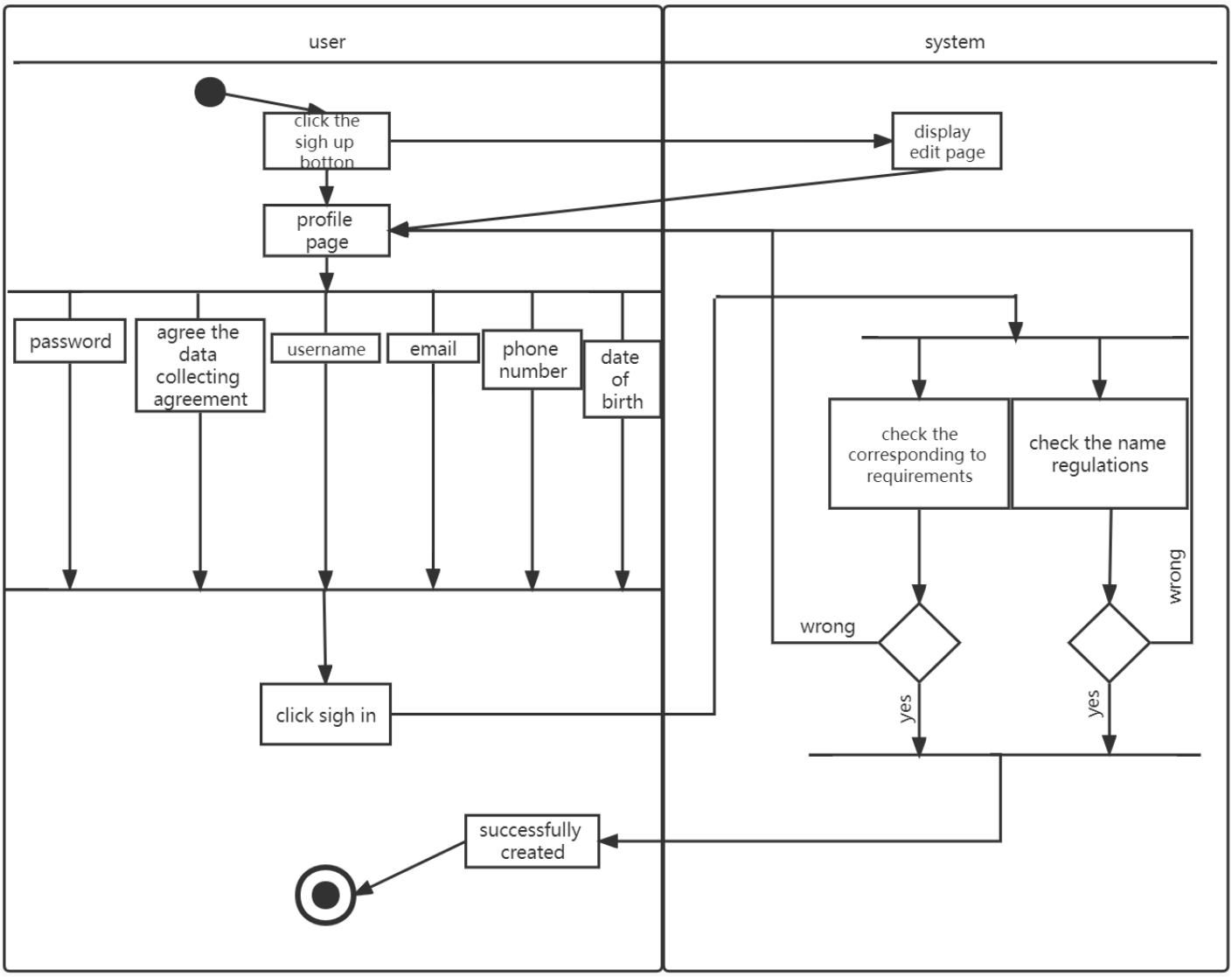
- Log in page
- Register page
- Dashboard page
- Device page : They can add new devices.
- Situation page : User can crate a list of commands to be binned to a single button
- Historical page : All activities performed are displayed
- Support page
- Admin page for developer
- User Profile Page

UML Diagram

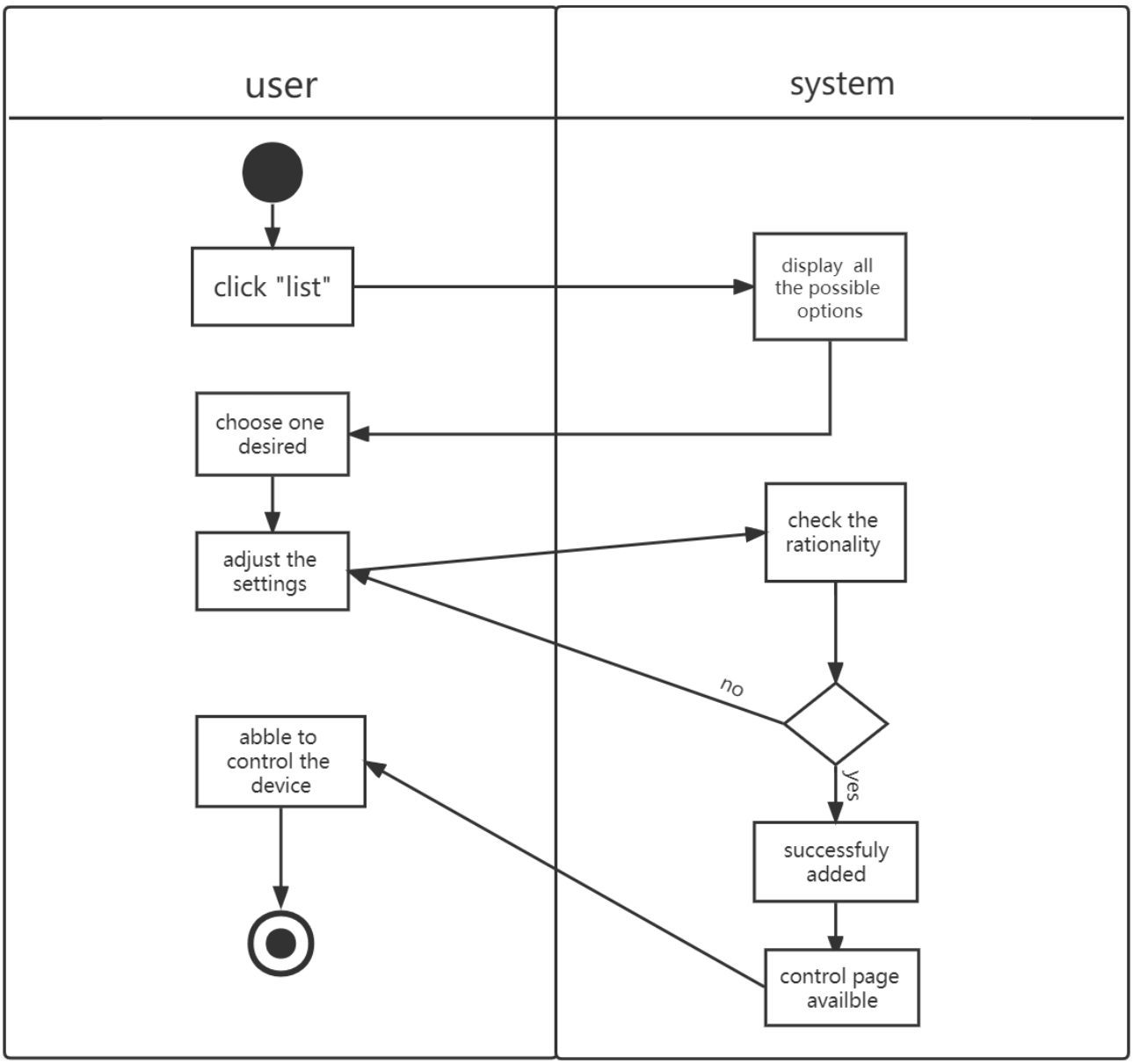
- Use Case



- Activity Diagram to register an account

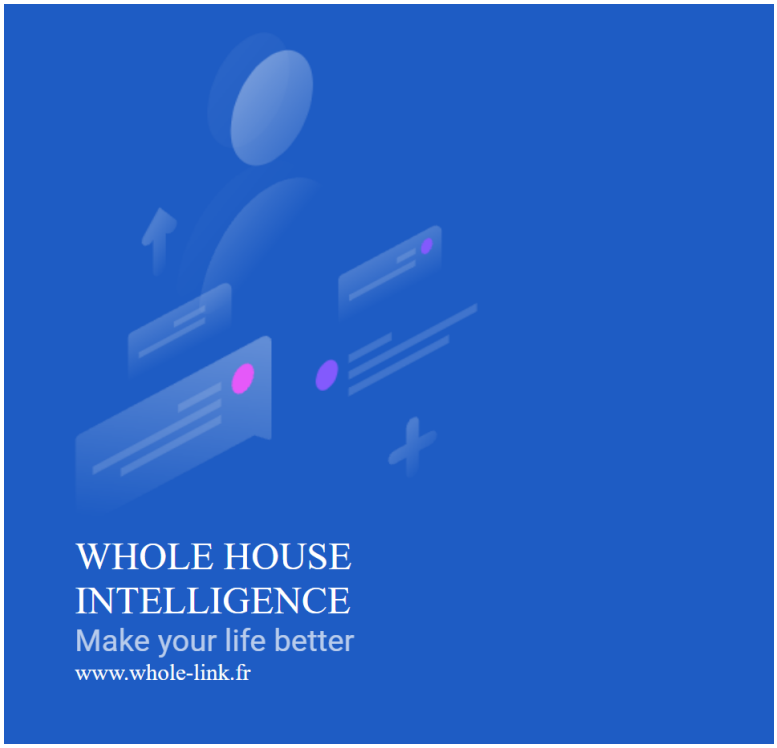


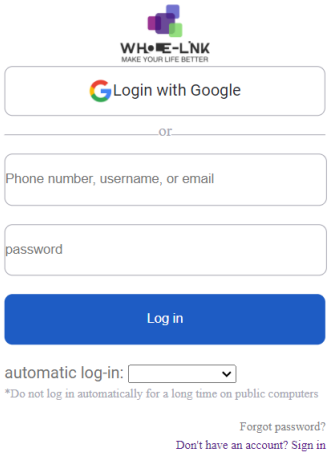
- Activity Diagram to add a new device



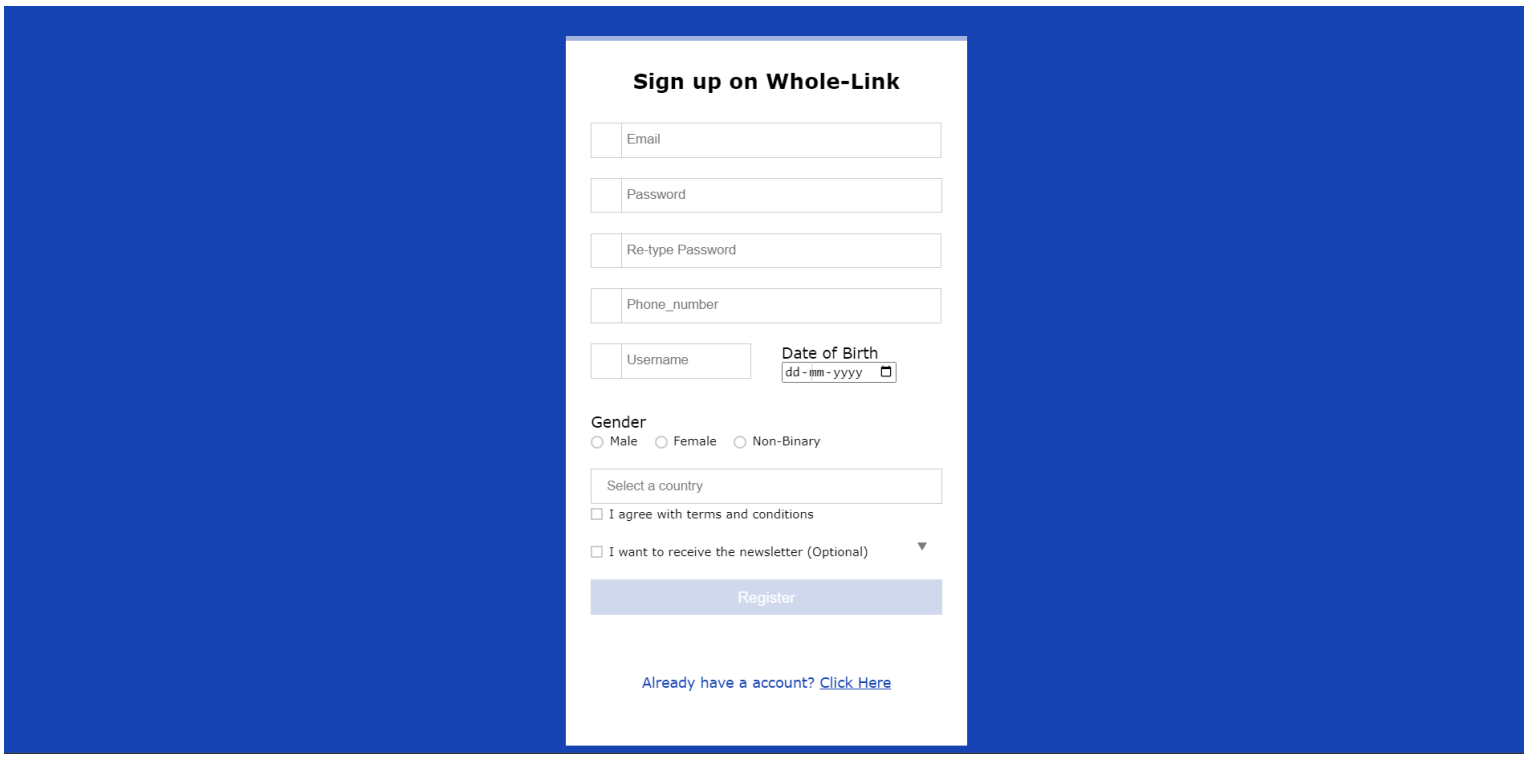
Graphical User Interface

Login Page :

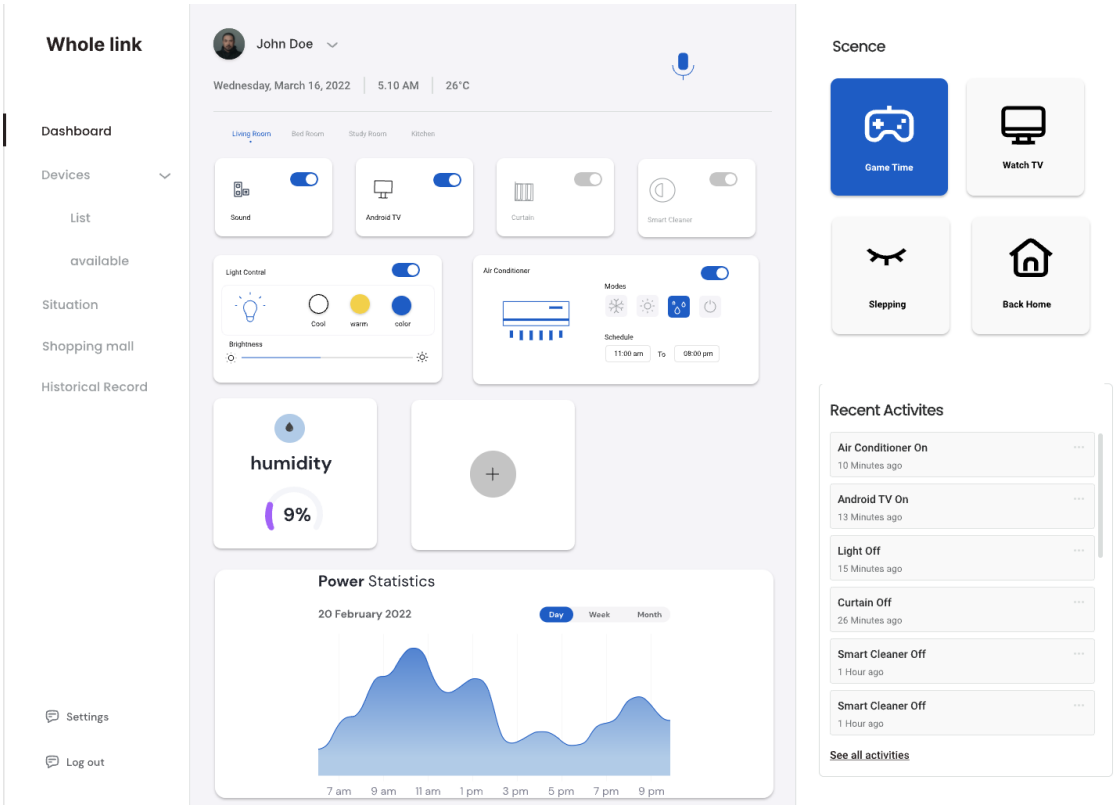


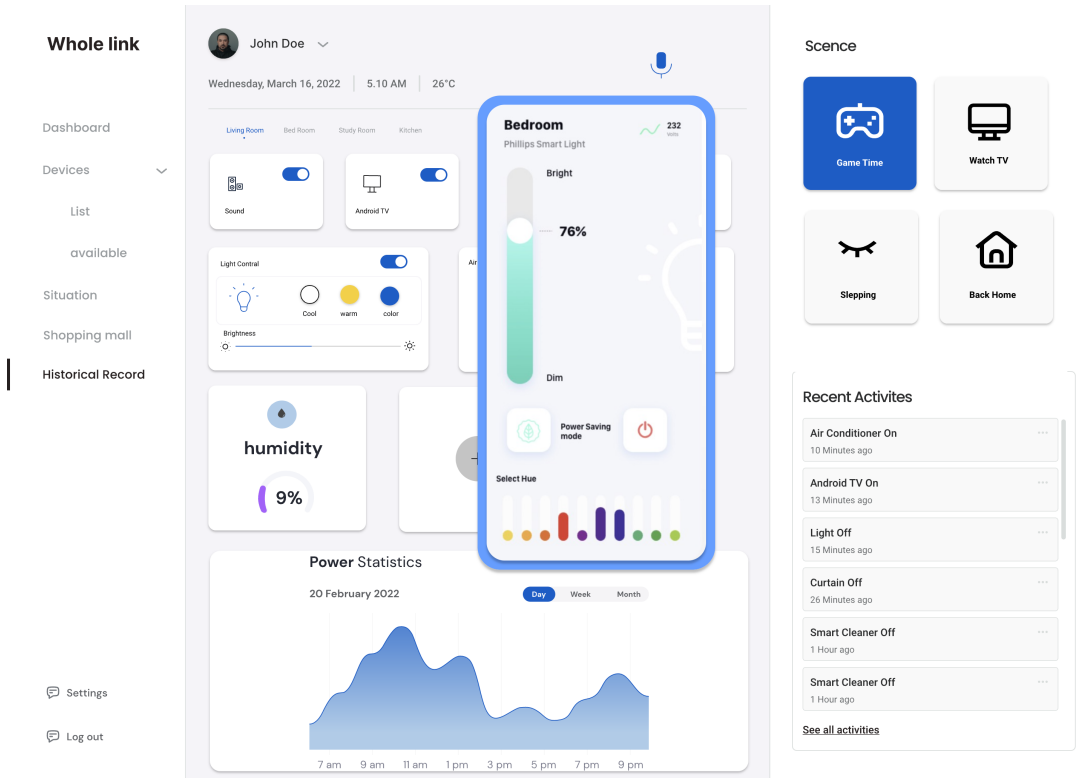


Registation Page :

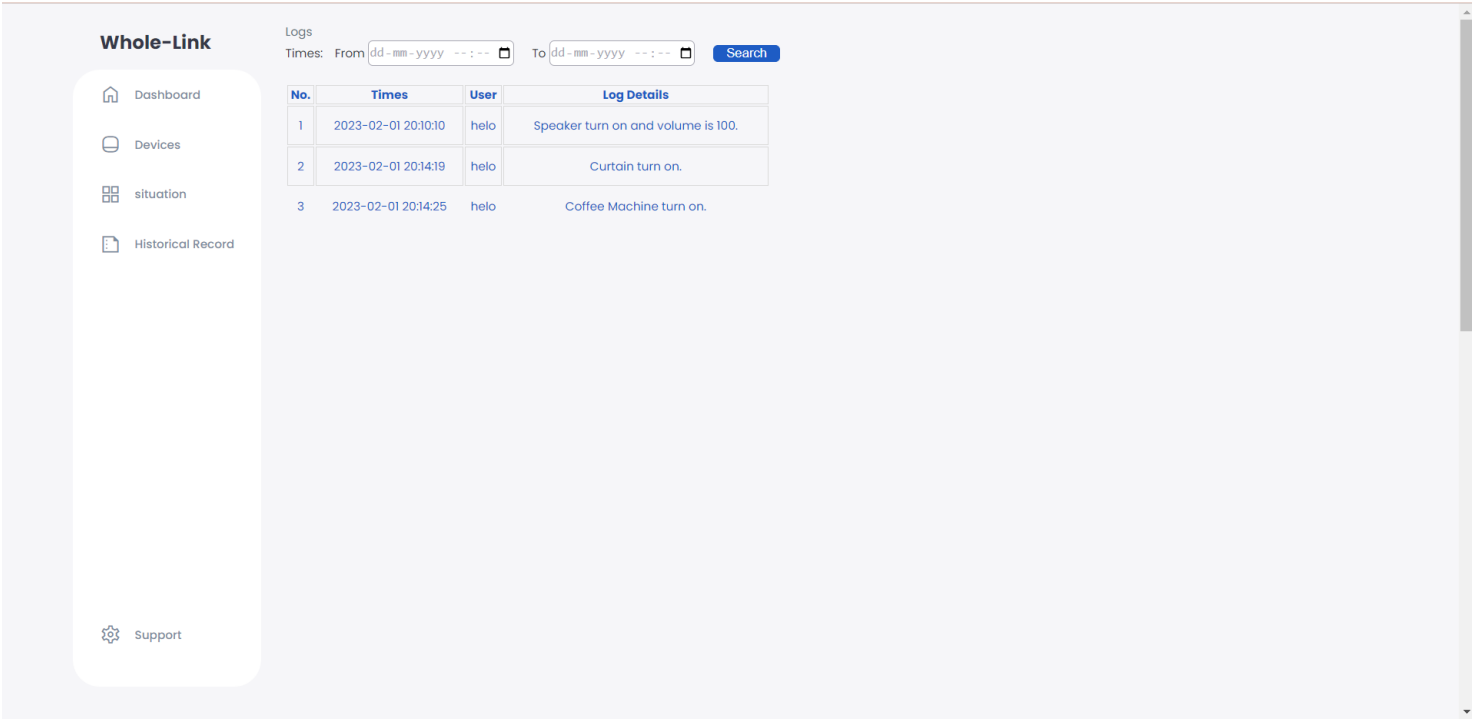


Dashboard :

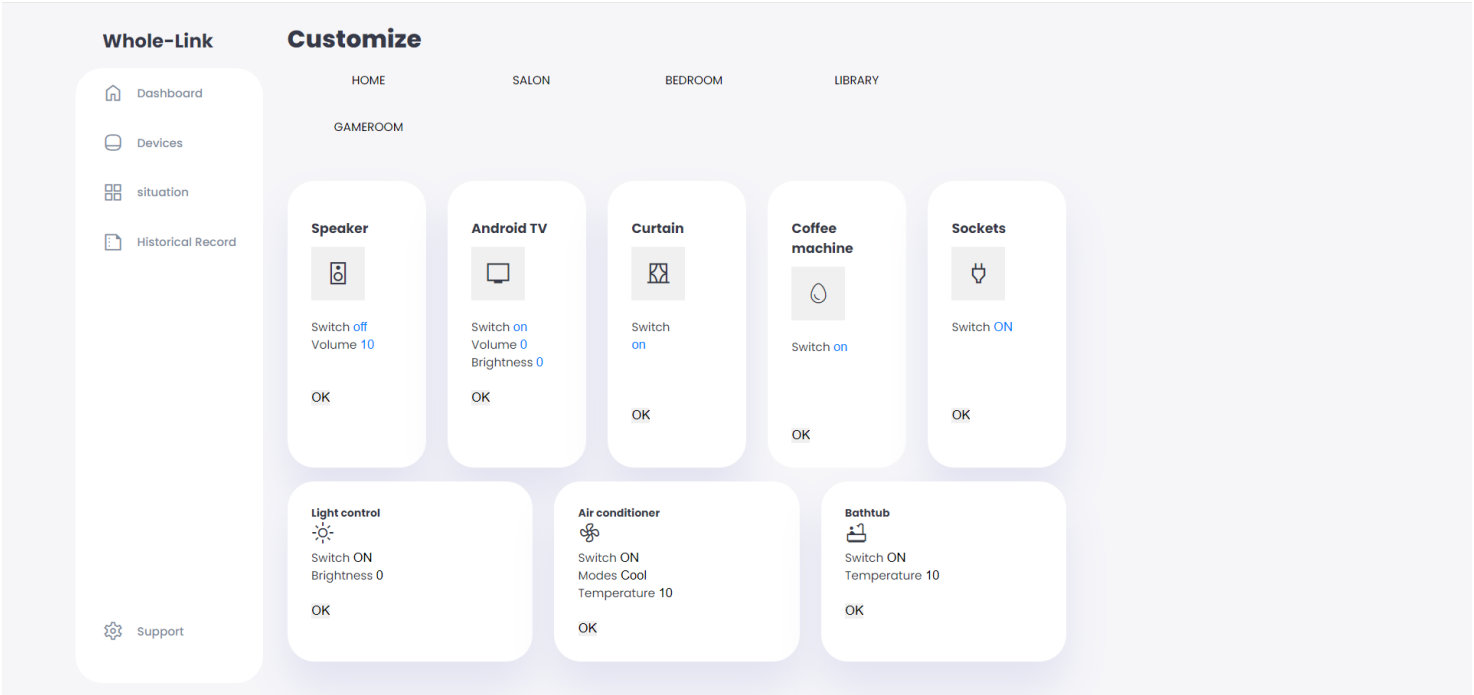

Whole link
John Doe
Wednesday, March 16, 2022
5.10 AM
26°C
Dashboard
Devices
List
available
Situation
Shopping mall
Historical Record
Settings
Log out
Sound
Android TV
Curtain
Smart Cleaner
Light Contral
Cool
warm
color
Brightness
Air Conditioner
Modes
Schedule
humidity
9%
Power Statistics
20 February 2022
Day
Week
Month
7 am
9 am
11 am
1 pm
3 pm
5 pm
7 pm
9 pm
Scence
Game Time
Watch TV
Slepping
Back Home
Recent Activites
Air Conditioner On
10 Minutes ago
Android TV On
13 Minutes ago
Light Off
15 Minutes ago
Curtain Off
26 Minutes ago
Smart Cleaner Off
1 Hour ago
Smart Cleaner Off
1 Hour ago
See all activities


Whole link
John Doe
Wednesday, March 16, 2022
5.10 AM
26°C
Dashboard
Devices
List
available
Situation
Shopping mall
Historical Record
Settings
Log out
Bedroom
Phillips Smart Light
232
Bright
76%
Dim
Power Saving mode
Select Hue
humidity
9%
Power Statistics
20 February 2022
Day
Week
Month
7 am
9 am
11 am
1 pm
3 pm
5 pm
7 pm
9 pm
Scence
Game Time
Watch TV
Slepping
Back Home
Recent Activites
Air Conditioner On
10 Minutes ago
Android TV On
13 Minutes ago
Light Off
15 Minutes ago
Curtain Off
26 Minutes ago
Smart Cleaner Off
1 Hour ago
Smart Cleaner Off
1 Hour ago
See all activities

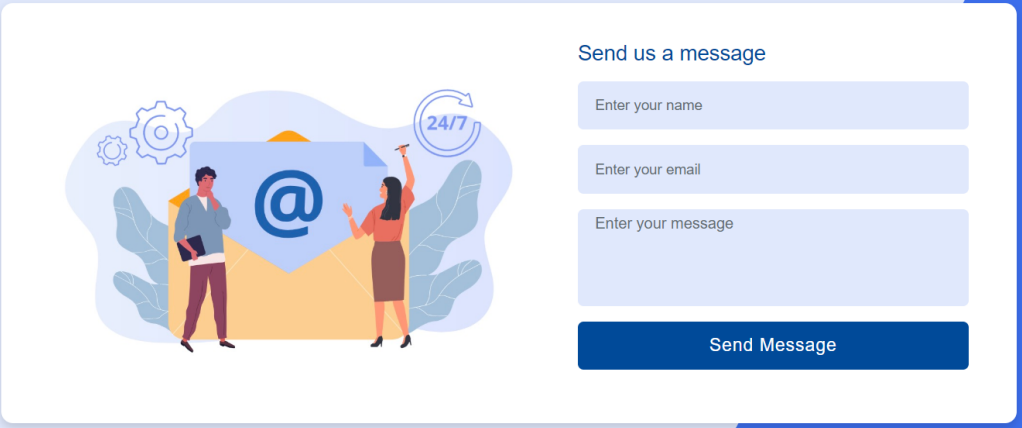
Historical Record :



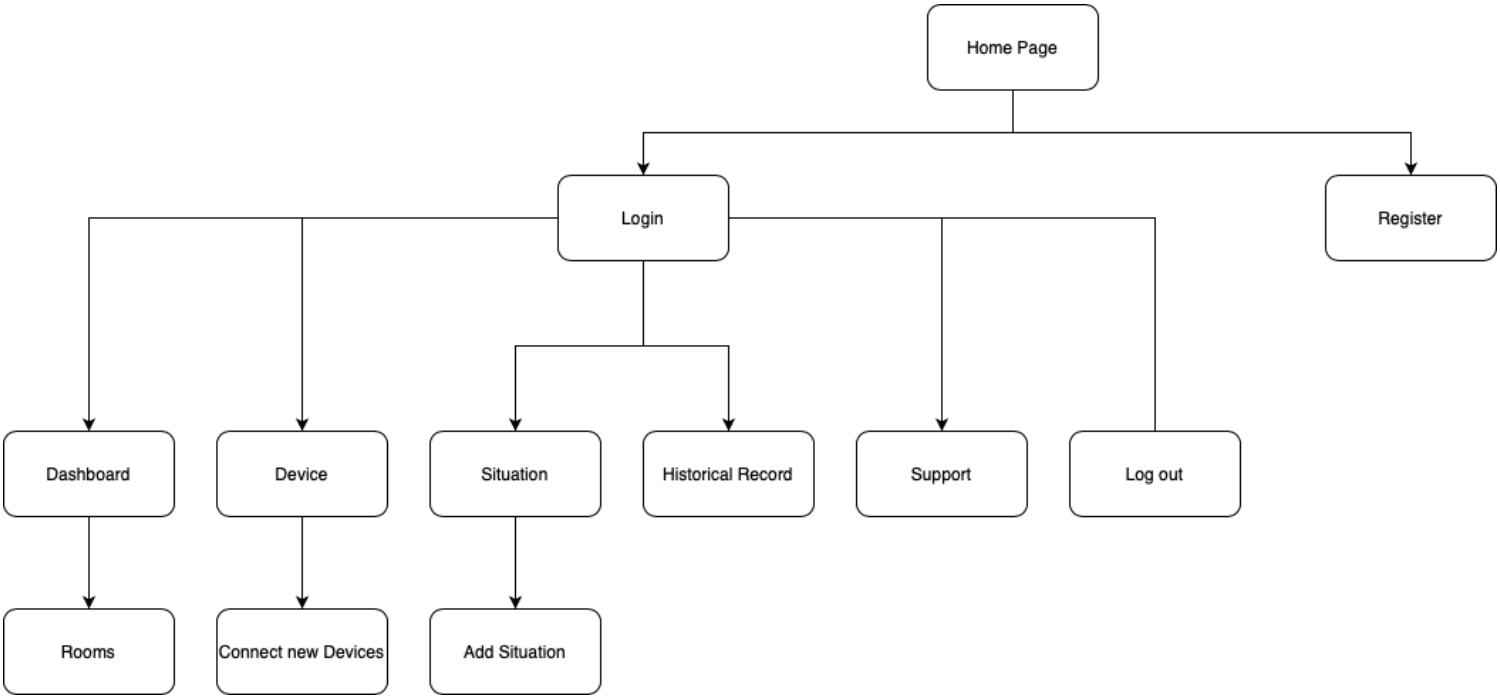
Situation :



Support page :



Navigation Diagram



Definition Of Data

- Climatic Data

  We collect the climatic data from users to know about their surrounding temperature and humidity level and suggest them solutions according.

- Environmental Data

  We collect environmental data like Carbon Monoxide level and Formaldehyde level, also we collect the data of their movement using an infrared sensor to activate or deactivate a function.

- Geolocation Data

  Geolocation data refers to any kind of data that allows for determining, with reasonable precision, the location of any person or object on planet Earth.

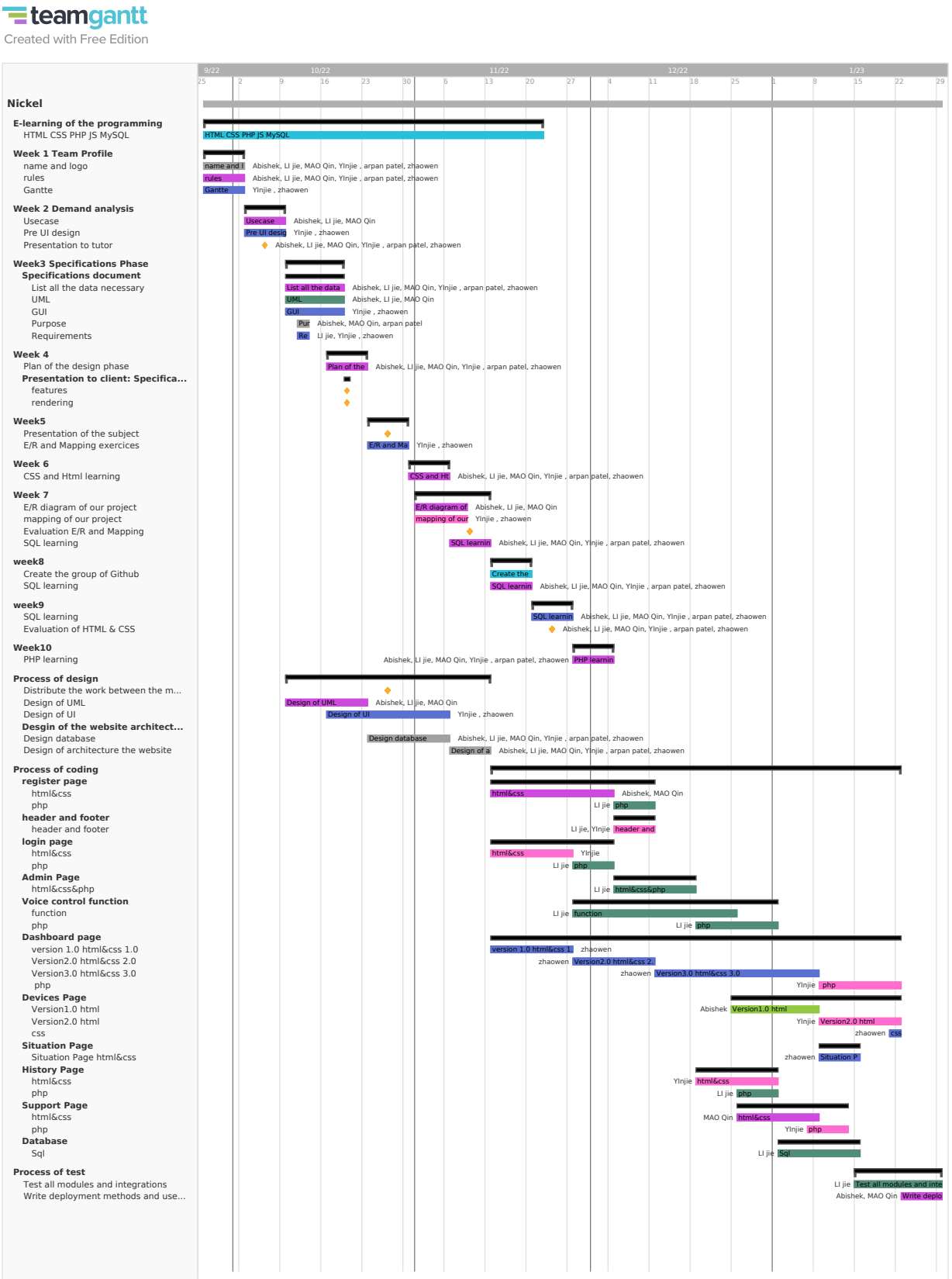
- Their usual routine

  We collect data on their daily routine in order to automate the process in the future.

- Users Usage Data

  All the data of their usage has been collected and later feed into AI, to create a robust AI.

Gantt Diagram



Glossary

- **UML :** Unified Modeling Language
- **GUI :** Graphical User Interface
- **HTML :** HyperText Markup Language
- **PHP :** Personal Home Page
- **DBMS :** Database Management System
- **SQL :** Structured Query Language