DEPARTMENT OF COMPUTER SCIENCE

GOVERNMENT COLLEGE OF ARTS SCIENCE AND COMMERCE
KHANDOLA MARCELA-GOA

Affiliated to Goa University
Accredited by NAAC with 'A' Grade

JSPYN

An IoT solution,

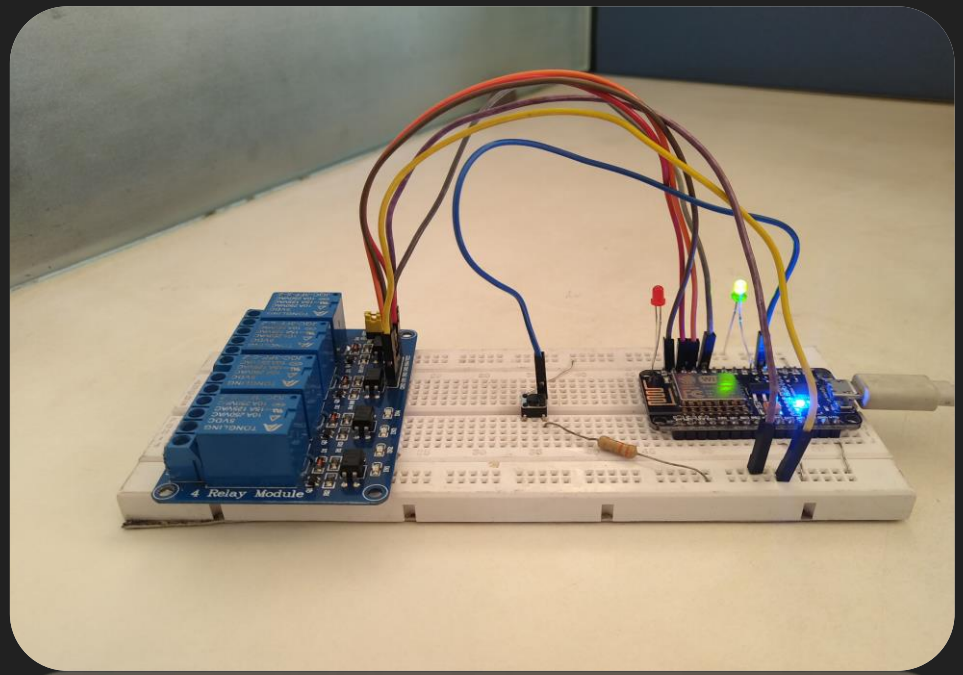
for convenience in life.

Introduction to JSPYN

- Easy solution to home automation and city updates.
- Consists of two parts:
  - Smart Home.
  - Smart City.
- Collection of real-time data from different sensors.
- Main highlight:
  - IFLETS.
  - Codeless architecture.
- Objective.

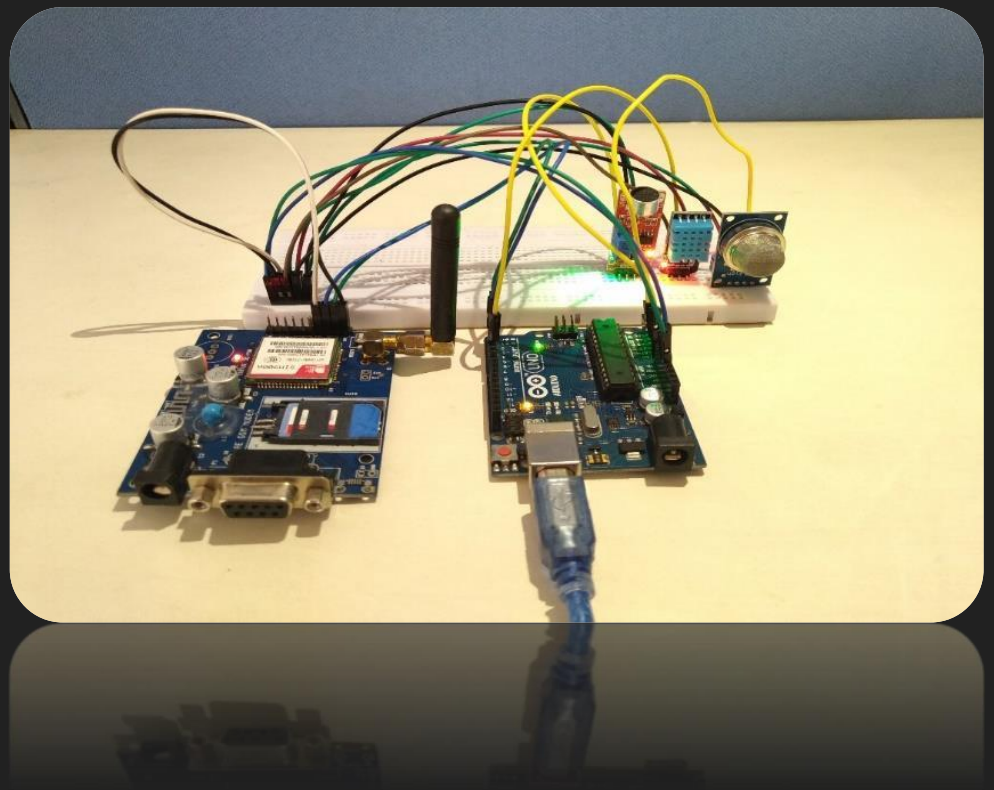
Smart Home – JSPYN IoT board

- Device is called the JSPYN IoT board.
- Board with single sensor and four channel relay Board.
- Home automation, monitoring home condition.
- Sensors supported.
- Uses ESP8266 microcontroller.
- Codeless architecture.
- Configured with JSPYN IoT Android app.
- Easily reconfigured.



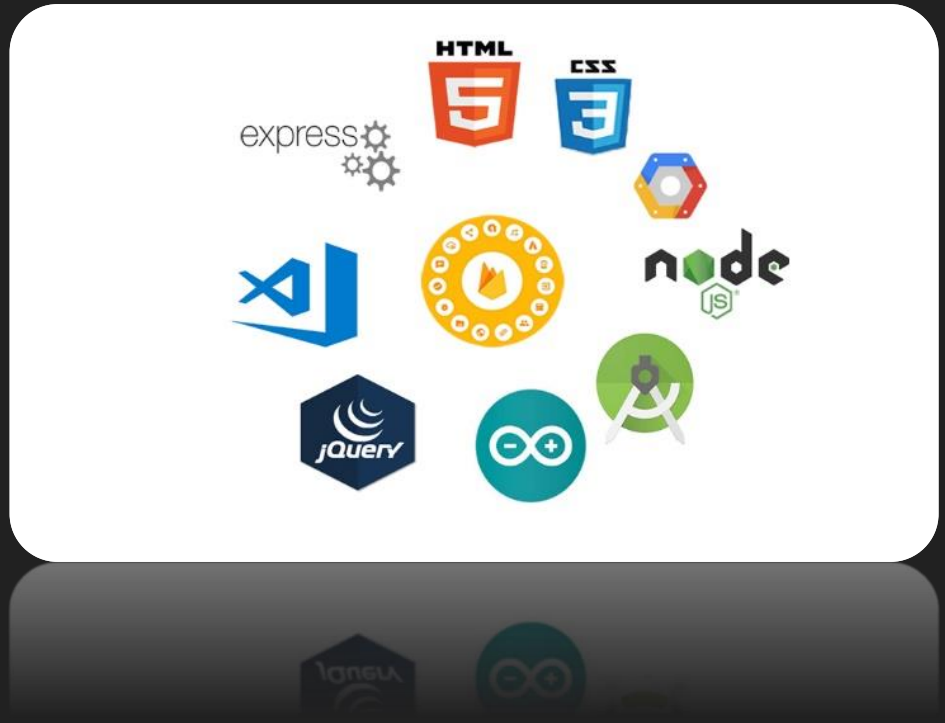
Smart City – JSPYN city hub

- Device is called the JSPYN city hub.
- Collection of sensors on a board.
- Battery powered.
- Placed in different cities.
- Include air, temperature, humidity and sound sensors.
- Displays collected data based on users location.
- Uses Arduino microcontroller and GSM Module.
- Stores real-time data to firebase.



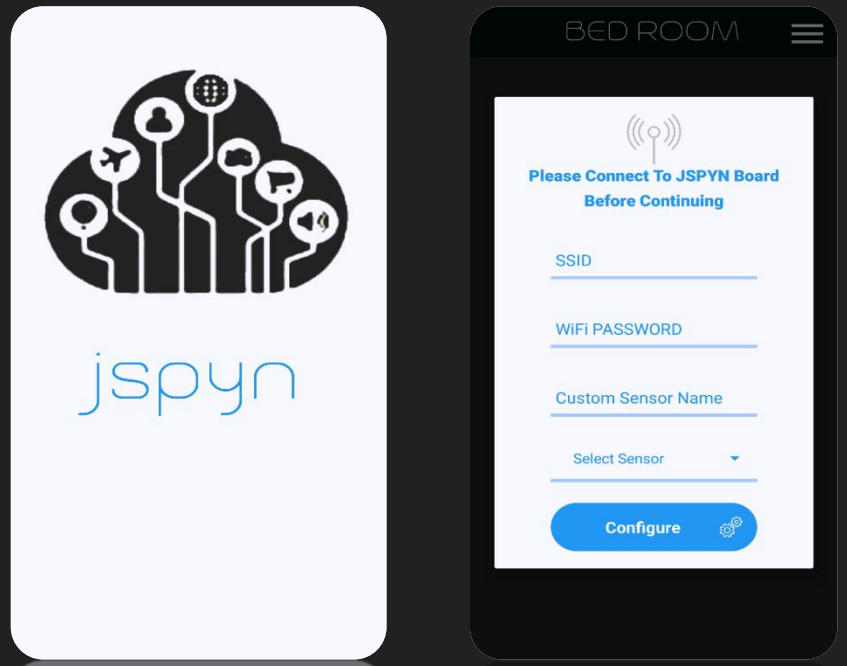
Technologies used in JSPYN

- JSPYN Hardware.
- Firebase as backend.
- JSPYN Android application.
- JSPYN Website.
- Google Cloud Computing Engine.
- JSPYN Iflets.
- IDEs and Editors.



JSPYN working

JSPYN Android App



JSPYN Website

Future scope, Enhancement and Improvements

- JSPYN city hub:
  - Network of interactivity.
  - Agricultural application.
- JSPYN IoT Board:
  - Voice commands.
- JSPYN Iflets.

THANK YOU

Team JSPYN