



## THE INTELLIGENT BIKE

## **DESCRIPTION**

Bicycle with electronic features that make life easier for the user. We will configure Raspberry-Pi in the bicycle and we'll show the data obtained in the web application.

## **LIST OF SENSORS**

- **Rain Sensor**
- Temperature Sensor
- ♣ Accelerometer Sensor
- **Humiture Sensor**
- Display Sensor
- **LEDs Strip**
- Light Sensor

## **OVERVIEW**

- The PowerBank AC Power provide energy to Pi.
- Pi publish the data by MQTT protocol and Heroku Server subscribe.
- Restful API made using Python & Django framework to consume by Web App.
- 🖶 Front-End: Angular 6 framework with Material Design.
- ♣ The Pi's Internet is provided by HotSpot Mobile.
- We'll connect Mongo DB to mLab to save the data in a independent node.
- ♣ All things are connected by HTTP request.



