

# Software Project Management - Laboratory

Lecture n° 6

A.Y.

2021-2022

# Groups

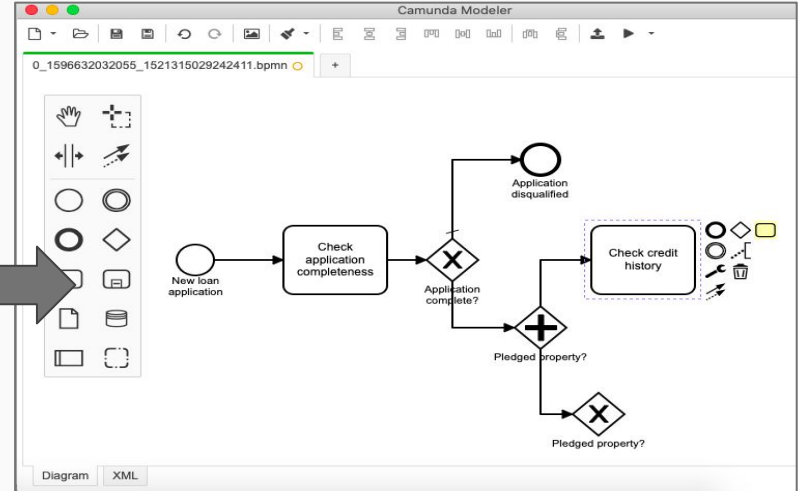
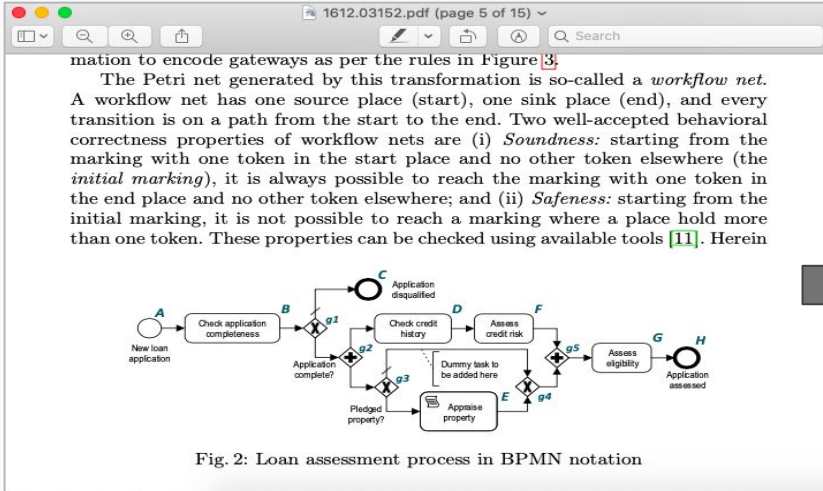
<https://docs.google.com/spreadsheets/d/1tOdMoBKzBjcHGQI3ACmrkkcaFbc2TuPfgmFQM2jL9BU/edit#gid=0>

# BPMN Redrawer

# BPMN Redrawer

The project consists of implementing a web application that allows to upload images (.png) of BPMN models and turns those images in actual BPMN models stored in .bpmn format

Link Utili: [opencv.org](http://opencv.org), [docs.camunda.org](http://docs.camunda.org)



# IoT-Aware BPMN Platform

# IoT-Aware BPMN Platform

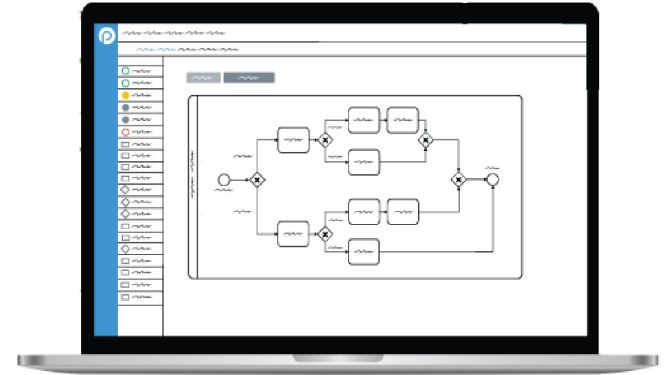
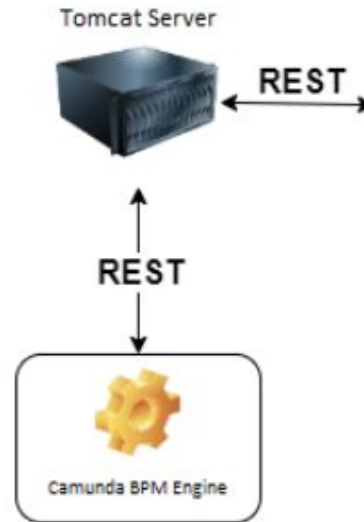
The project consists of implementing a **web application** that allows to **design and enact** IoT-Aware BPMN models


## Model Design

The **bpmn-js** library, can be used to design models and should be extended to include IoT related informations

## Model Execution

The models, after designed, can be sent to a **Camunda** BPMN engine for allow their execution



 **Process\_072kiui**

< General Variables Listeners >

### General

**Id**  
Process\_072kiui x  
This maps to the process definition key.

**Name**

**Version Tag**

Executable

### External Task Configuration

**Task Priority**

### Job Configuration

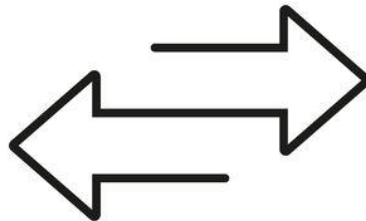
**Job Priority**

### Candidate Starter Configuration

**Candidate Starter Groups**  
  
Specify more than one group as a comma separated list.

**Candidate Starter Users**

Properties Panel



## IoT devices

The project is supported by real IoT devices that have to be configured using the **Property Panel** from the bpmn-js library

# IoT Platform

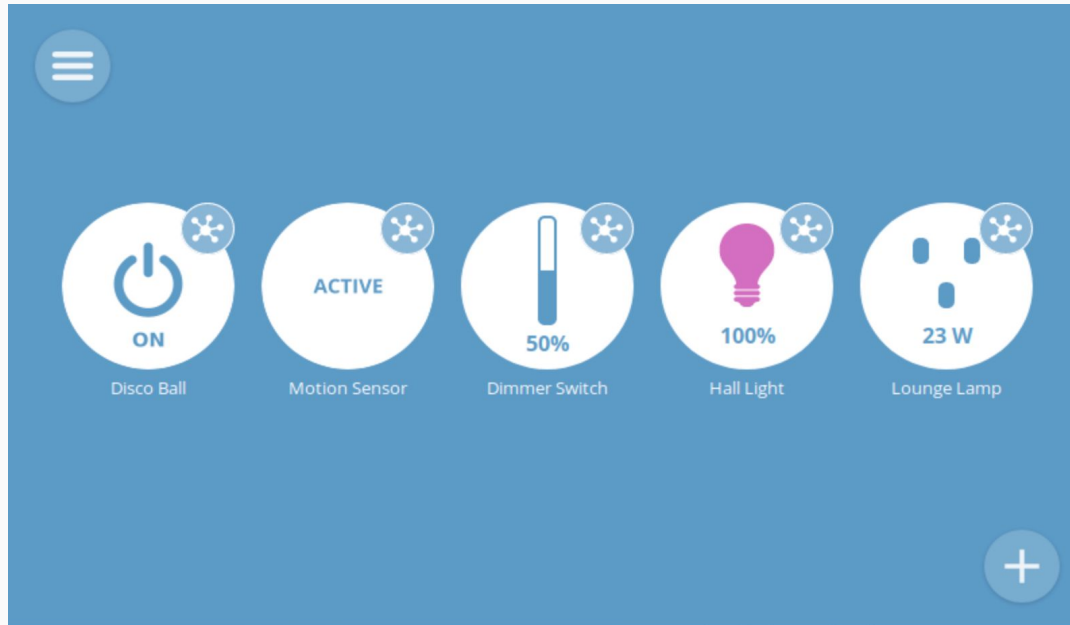


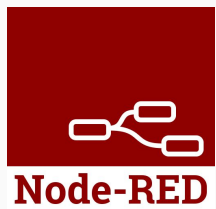
# IoT Platform



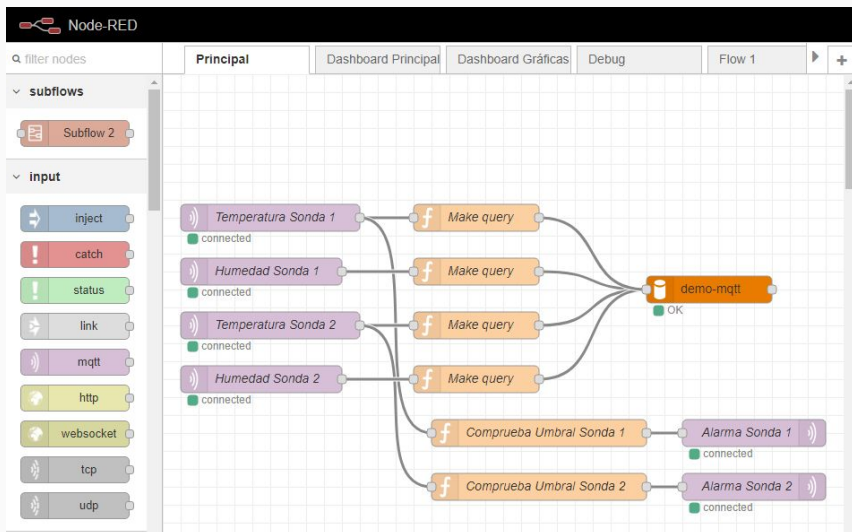
The project consists of realising an **IoT Platform** for managing **IoT devices**.

This platform must allow the **import**, **visualising** and **saving** of information related to IoT devices.





In order to provide backwards compatibility the IoT Platform should integrate the **Node-RED** tool.

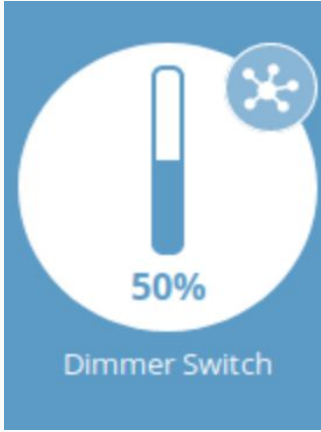


Node-RED editor



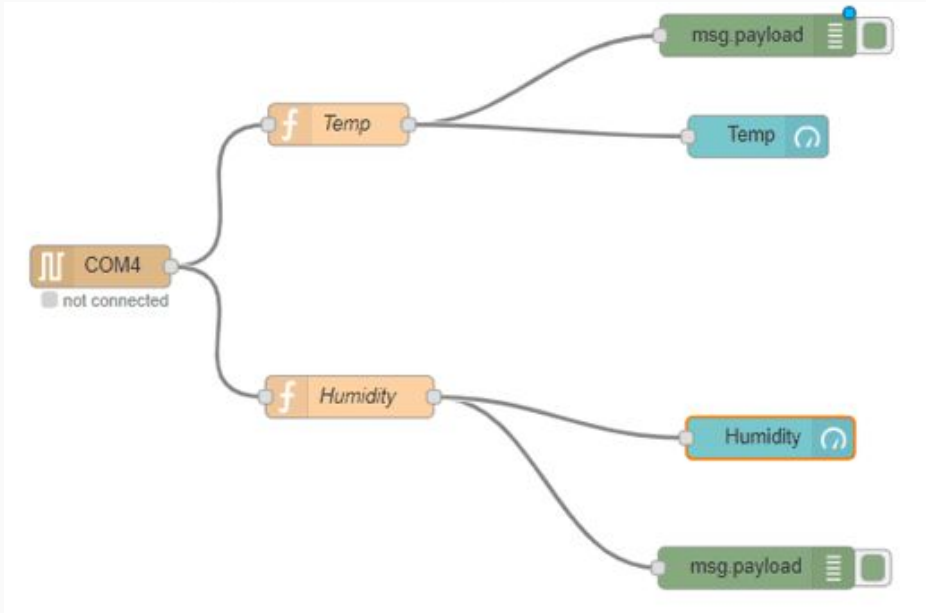
Node-RED dashboard

# Requirements



1

Select a device inside the platform

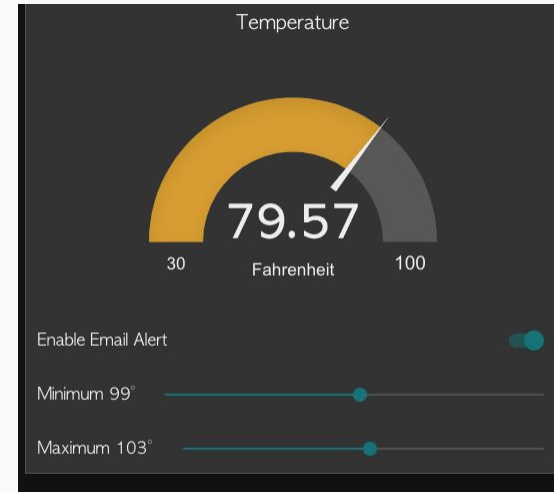


2

Import the device information inside the Node-RED editor

3

Visualise the data inside the Node-RED dashboard



## Summary: Requirements and Constraints

1

Devices information must be stored according to the [IoT-Lite ontology](#)

2

Devices information must be automatically imported inside the right **Node-RED node**

3

**Node-RED** dashboard must be used to visualise the IoT data

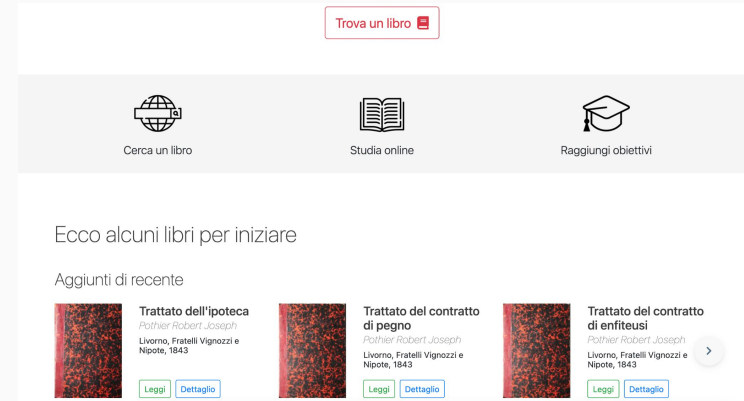
# Digital Library

# Digital Library

The project consists in developing a web/mobile application for accessing digital books. The system allows users to create a digital library and to read stored books, add notes bookmarks and share them with other users. **MAX 2 groups**

The system should be able to integrate with a pre-existent one.

**Link Utili:** <https://bibliotecadigitale.unicam.it>



# User Stories

# User Stories

A User Story is a simple and quick description of a specific way that the user will use the software. Generally between one and four sentences long.

Can generally follow a template:

*As a <type of user>,  
I want to <specific action I'm taking>  
so that <what I want to happen as a result>.*

e.g. “As a customer, I want to be able to create an account so that I can see the purchases I made in the last year to help me budget for next year.”

Assign a value to estimate the effort needed to elaborate a user story (e.g., 1 to 5).



# Github Issues

Filters

Labels 13

Milestones 1

New issue

4 Open ✓ 1 Closed

Author ▾

Label ▾



Projects ▾

Milestones ▾

Assignee ▾

Sort ▾

 **Driver Login** points: 2 user story  
#5 opened 6 hours ago by FabrizioFornari  Sprint 1

 **Driver Geolocalization** points: 4 user story  
#4 opened 7 hours ago by FabrizioFornari  Sprint 1

 **User Story 3** points: 2  
#3 opened 20 days ago by FabrizioFornari

 **User Story #1** points: 3 user story  
#1 opened 22 days ago by FabrizioFornari  0 of 2 

 1