Microprocessor Systems

# Smart Locking Door

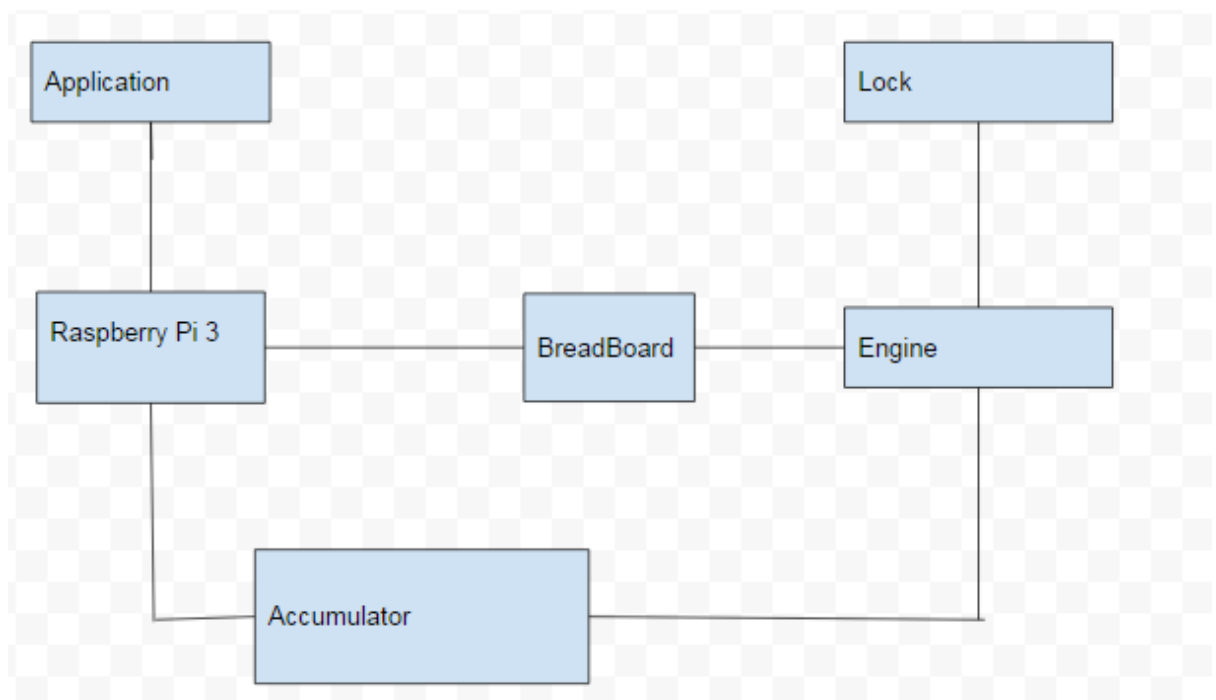**Catalin BOIE, Valerica VARTOLOMEI**

# CONTENT

- **User requirements**
- **System Overview**
- **Hardware design**
- **Software design**
- **Repository**

# User Requirements

This Smart Locking door project, makes your life easier, you can easily open your door for someone just by using a mobile application, or to lock it when you are too lazy to get up or if you leave your home and forget to lock it.

It is easy to use, you only have to attach it on the door and connect it to a power supply.

# System overview

**Application**: This app alows you to control the switch, you can lock and unlock the door using this app.

**Lock:** This part of the project is the material part of the lock, is a metal lock that is used to lock and unlock the door, this is controled by the Engine.

**BreadBoard:** This board is used for connecting the Raspberry and the Engine using jumpers.

## Hardware design

**Raspberry Pi 3** provides support for quick prototyping.

**Mitsumi m22e-13 a 5V** engine that is used to trigger the lock.

### Software Design

An application written in python which is located on the Raspberry Pi and can be accessed via Bluetooth to lock and unlock the door.

### Repository

https://github.com/catalinboie/MS-Project