**Smart Room System**

**Project # CP19\_37**

**INTRODUCTION**

Purpose

The purpose of this document is to describe the Smart Room System. This document contains the functional, behavioral and non-functional requirements of the project and it also contains the guidelines to start working on the project.

Scope

Smart Room System is a hardware system which is the representation of the idea of future systems which is once installed, it becomes easy to handle the electricity consumption in a best possible manner to save the electricity.

This system is developed using some hardware and software implementation as well. A light and a fan or any equipment is installed which are operated by a software GUI (General User Interface). The whole module is operated by a software that contains the some sort of buttons by which a user can on or off the lights.

**FLOW OF WORKING**

Firstly, the whole project will be analyzed and all the steps will be written down. Steps include searching, reading, practicing etc. Further all the working is divided into parts and divided into all group members. Process of the implementation goes in the same manner.

Planning

Searching

Analysis

Implementation

**TECNOLOGY USED**

|  |  |
| --- | --- |
| Programming Language | Python |
| GUI (General User Interface) | PyQt5 |
| Hardware | Raspberry pi , Motion Detecting Sensor |
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**GROUP MEMBERS**

|  |  |
| --- | --- |
| Name | ID |
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