**SMART PARKING ASSISTANCE**

**Abstract:**

Everything in the modern world is going automatic.This system can automatically sense the entry and exit of cars through the gate and then display the number of cars in the parking lot.

This automated car parking system reduces the time taken to check the space for vehicles by displaying the available spaces for parking on a LCD display

**SIMPLE BLOCK DIAGRAM:**

Entry System

Exit system

Slot 4

Slot 2

Slot 1

Slot 5

Slot 3

Slot 6

Entry System

Exit system

**BILL OF MATERIALS:**

**Hardware :**

|  |  |  |
| --- | --- | --- |
| SL No | Equipments and Components | Quantity |
| 1. | LPC 2378 ARM Development Board | 2 |
| 2. | DC Motor | 2 |
| 3. | IR Sensors | 2 |
| 4. | Keypad | 2 |
| 5. | wires | - |
|  |  |  |
|  |  |  |

**Softwares:**

|  |  |  |
| --- | --- | --- |
| SL No | Softwares | Ver |
| 1. | Keil | Uv 4 |
| 2. | Flash Magic | - |
|  |  |  |
|  |  |  |
|  |  |  |

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**FUNCTIONAL BLOCK DIAGRAM:**

**Entry Point:**

CONTROL UNIT 1

KEY BOARD

LCD DISPLAY

DC MOTOR

SPI Protocol Tx

IR SENSOR

**Exit Point:**

CONTROL UNIT 2

KEY BOARD

LCD DISPLAY

SPI Protocol Rx

IR SENSOR

DC MOTOR