SOFTWARE/HARDWARE LIST:-

Chapter Name	Chapter number	Software required (With version)	Hardware specifications	OS required
Setting up the Raspberry pi Zero and Arduino	1	Node.js 4.5 or later	Raspberry Pi Zero	Raspbian Jessie 4.4 or later
Connecting things to the Raspberry Pi Zero	2	Python 2.7.x or Python 3.x	Raspberry Pi Zero sensor DS18B20 MCP3008 ADC Converter	Raspbian Jessie 4.4 or later
Connecting sensors: Measure the real things	3	Arduino Software	Flow sensor MQ2 gas sensor Alcohol sensor Fire sensor Huminity sensor for plants DHT11 tempeature and huminity sensor PIR sensor Reed switch Sensor Print sensor	Windows, Linux, MAC
Control- connected devices	4	Arduino Software Node.js for Windows V7.3.0 or later Node.js 4.5 or later	Raspberry Pi Zero Arduino UNO Wi-Fi shield CC3000 Ethernet shield W5100 LDR sensor Relay DHT11 sensor	Raspbian Jessie 4.4 or later Windows, Linux, MAC
Adding a WEB CAM to monitor your security system	5	Arduino Software Python 2.7.x or Python 3.x	Raspberry Pi Zero Arduino UNO Arduino YUN TTL camera USB camera Logitech C270	Raspbian Jessie 4.4 or later Windows, Linux, MAC
Building a monitor WEB and Control devices from a Dashboard	6	Arduino Software Node.js for Windows V7.3.0 or later Node.js 4.5 or later PHP myadmin Database MySQL module	Arduino UNO Ethernet Shield ESP8266 Wifi shield DC motor, L293D integrated circuit Relay Door lock Water Solenoid Current sensor	Raspbian Jessie 4.4 or later Windows, Linux, MAC

Building a	7	Arduino Software	Arduino UNO	Raspbian Jessie 4.4 or later
Spy Police		Configure an account at www.freboard.io	Electret microphone	Windows, Linux, MAC
with the			MOC 3011, 4N25	
Internet of			Lamp	
things			RFID module and	
dashboard			TAGS	
			MW135 smoke	
			sensor	
			PIR sensor	
			Buzzer	
			DHT11 temperature	
			and humidity sensor	
Monitor	8	Arduino Software	Raspberry Pi Zero	Raspbian Jessie 4.4 or later
and		Node.js 4.5 or later	Arduino UNO	Windows, Linux, MAC
Control		Create and account in Gmail so that you can	Ethernet shield	
your		get in APP inventor	Relay	
devices		Android Studio and SDK modules	DHT11	
from a			Temperature and	
Smart			humidity sensor	
Phone			DC motor, L293D	
			integrated circuit	
			Bluetooth module	
			HC05	
Putting all	9	Arduino Software	Arduino UNO	Raspbian Jessie 4.4 or later
Together		Node.js 4.5 or later	Raspberry Pi Zero	_
_			Relay modules	
			Matrix keyboard	