

Smart Shop 1.0 User Manual

Welcome to “Smart Shop” easy super market management system. Let’s learn about it and how to use it.

About

Smart Shop 1.0 is a super market management system which was started as an university project. Its creators are:-

- 1).Maunil R. Vyas
- 2).Deep C. Patel
- 3).Shreyas G. Patel

It was created to make shopping process fast, easy and efficient. Here users have to enter the list of the products he/she want to buy and sit aside waiting for delivery of required goods, rest will be handled by our smart system.

Specifications of System

Our system contains following parts:-

- 1).Atmel ATmega 32 AVR Microcontroller
- 2).12 V Stepper Motor (1.5 degrees Step angle)
- 3).LCD (16x2)
- 4).Serial Interface
- 5).Motor Driver (ULN 2003)
- 6).Automatic Mechanical Racks Controlled by Microcontroller

Our system contains following Software:-

- 1).Source Code having algorithm (Inside Microcontroller)
- 2).User Interface Code Python

What you Need

- 1).12 V and 5V DC Power Supply
- 2).External Computer (Windows/Linux/Mac) having USB Drive/Serial Port and Python SDK
- 3).USART Cable

Steps to Configure

- 1).Connect the 12V power supply to pins as shown below
- 2).Connect the 5V power supply to the port as shown below
- 3).Now connect the USART cable to Serial/USB port to PC and the Board as shown below
- 4).Start the system

Warning:-Do not start power supply before connecting all ports as directed above.

Steps to Start Shopping ☺

- 1).Start the given program “ESD_Project_UI.py” in the python console in the computer.
- 2).Enter the required field as asked in the Program (Name)
- 3).For selecting product select from list given below:-
- 4).Then enter the Quantity you need
- 5).Now if you want to select another product press y and Enter and repeat steps 1-5 else press n and Red switch in Board and Enter in Keyboard.
- 6).Now for another user, follow steps 1-6.

Note:-When not in use Switch off the power supply (“Save Power for the Future”)

Thanks for using Smart Shop 1.0