Home Lawn Irrigation System

The objective of our project is to develop a PLC based home lawn irrigation system which can adapt the daily irrigation amount according to the timer set by the user. The system uses simple inbuilt Timer to adapt daily irrigation amounts to lawn needs. Thus, this work aspires to develop an easily deployable home lawn irrigation controller. The substantial development of Programmable Logic Controllers (PLC) and their rather affordable price has been making it possible to use them as stand-alone irrigation controllers. The PLC has an advantage over Microcontroller that it can drive the motor without any additional driving circuit. The project would be highly efficient, reliable, cost effective, easy to control and sustainable to rigorous weather change.