

Uncomplicated and Affordable DIY Smart Home Project “Figaroo Home”

Valery Kirkizh

Indie developer
Saint-Petersburg, Russia
mail@figaroo.ru

Nowadays smart home is not a miracle, it is a reality. It involves the control and automation of lighting, heating, ventilation, air conditioning and security. There are a lot of companies which offer different solutions for home automation. However, usually all of them are very expensive for customers. How many people who are ready to pay 100\$ for smart lamp do you know? The high cost is the first stop factor for smart home systems distribution. The next issue is the disunity of manufacturers and existing interfaces, which are often too difficult for their users. Project “Figaroo Home” is an attempt to develop easy, cheap and user-friendly open source smart home system. It consists from home center based on Raspberry Pi and

lot of various devices based on Arduino and ESP8266 chip. It allows to control lamps, HVAC systems, door locks, etc and to monitor home state including microclimate parameters tracking, video surveillance and housing safety. Figaroo Home provides two ways to interact with itself. The first way is a simple interface, which now is implemented as iOS app, macOS app and web app. The second way is Apple HomeKit integration which allows you to use application Home at you iPhone, iPad or Apple Watch to control your home. Due to HomeKit and Siri interaction it opens the capability to use your own voice for commands and questions like “Turn on the light, please” or “What is the temperature on the air conditioner?”