

Graduation Project 1 Presentation Group 45 - JC7 Dr Abeer Mahmoud

Introduction

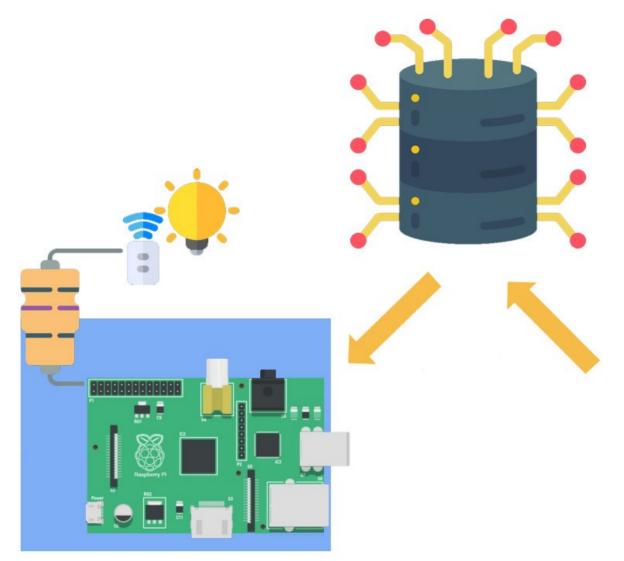
- Very fast increase in automation in the recent decade
- Higher demand for applications that can support remote control
- especially electrically controlled house appliances

Problem Statement

- Many applications available providing remote control at home
- All work in a small set of devices and sensors
- Main challenge: control these devices through the Internet
- Important for pet owners with UV lights, parents waking their children up etc

Objective and Proposed Solution

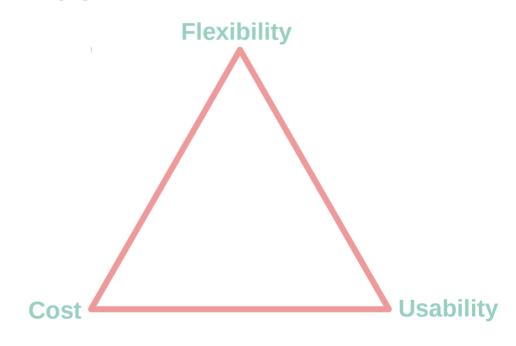
- Objective:
 - remote control of house appliances through IoT
- Solution:
 - creating Android mobile application that controls switches/lights etc by issuing commands
 - using Raspberry Pi to switch the lights/switches on and off
 - creating a web application interface between the mobile application and laptop





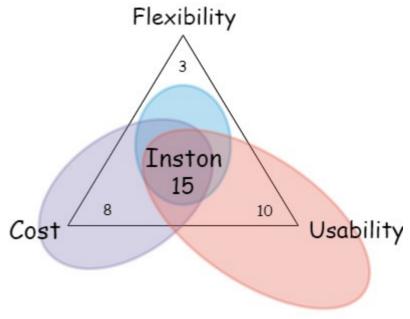
Related Work

- Some examples of similar applications:
 - Insteon
 - Wink hub 2
 - **Samsung** smart things



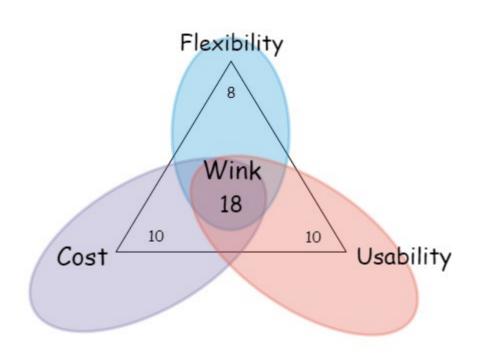
Related Work - Insteon





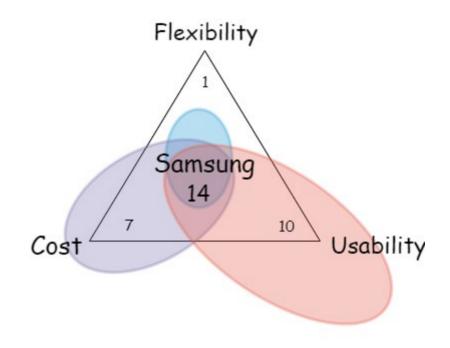
Related Work - Wink





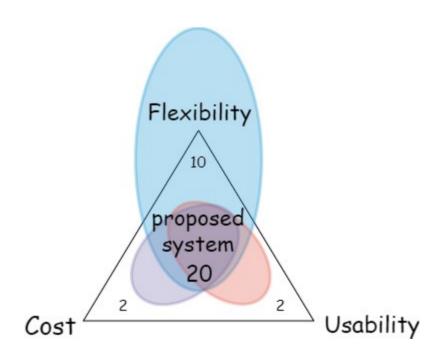
Related Work - Samsung





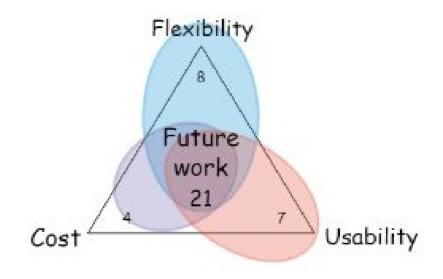
Related Work - Proposed



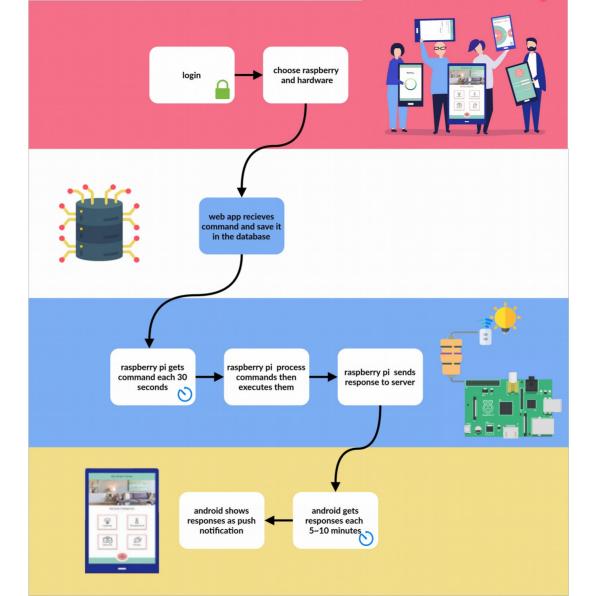


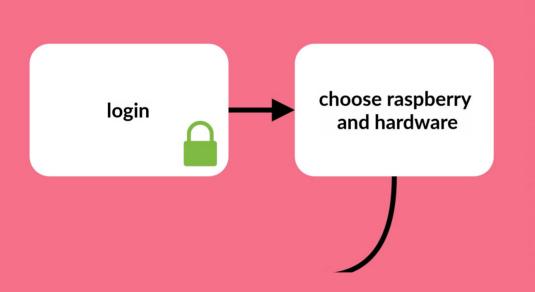
Related Work - Future



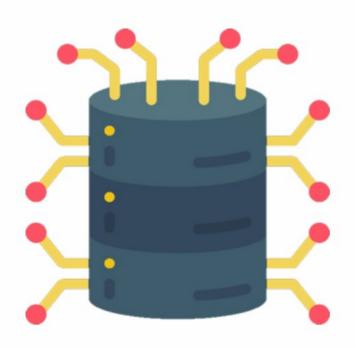


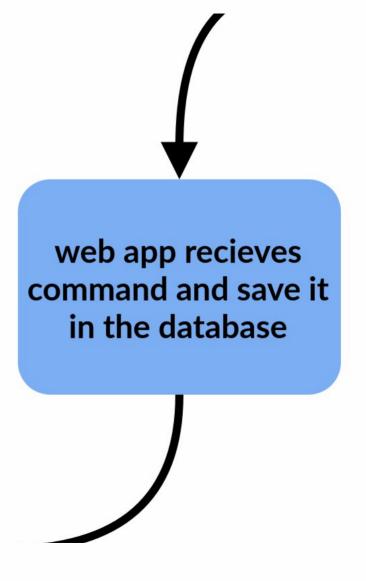
Methodology

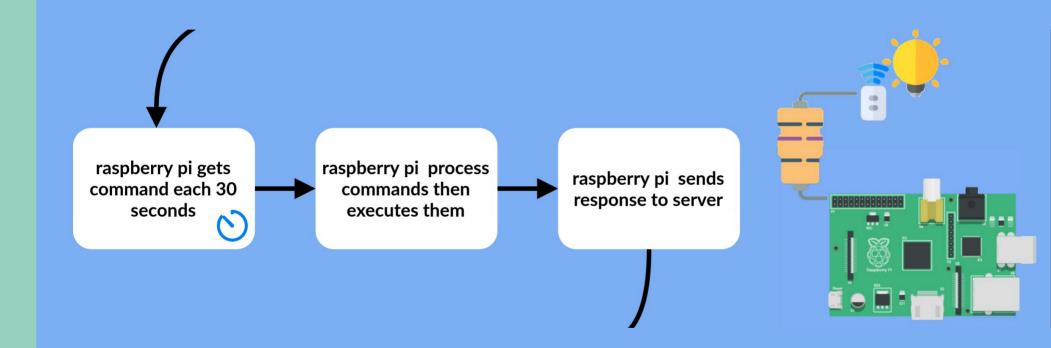


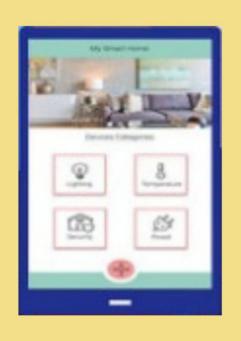


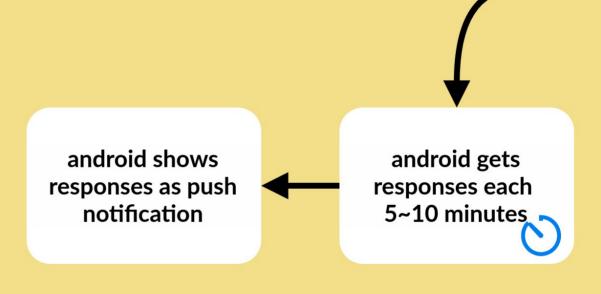














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