

SERVER ROOM MONITORING & CONTROL

LEBANESE AMERICAN UNIVERSITY

DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING

Abstract

Server rooms are rooms that contain mainly computer servers, routers, and switches. The equipment found in the server rooms contains the most important data about companies.

Our project employs an Android based smartphone application to monitor and control server rooms of a specific company.

Design

Server rooms will contain an embedded system that has current sensors, smoke sensors, temperature sensors, relays, and a camera. Data collected in the server room can be accessed by an Android application anywhere. The user will use the application to check the status of the servers, air conditioners, and temperature of the room. He can also control the power of the servers and ACs.

The user will receive a call and a message whenever something wrong happens such as:

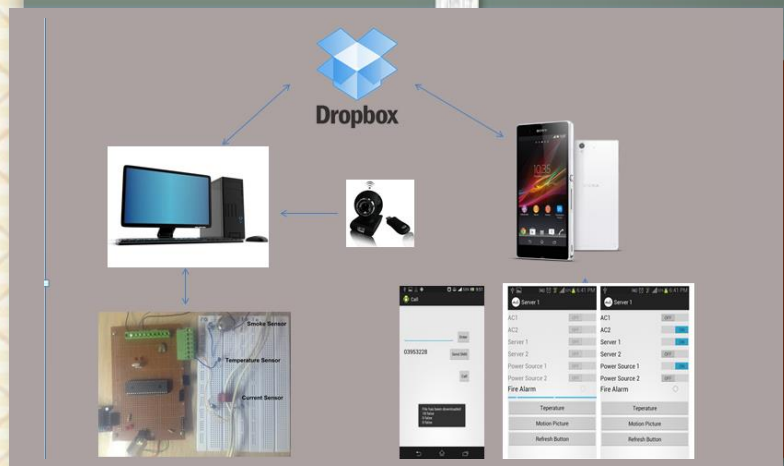
- Motion detected in room
- Temperature gets high
- Fire detected

Specifications

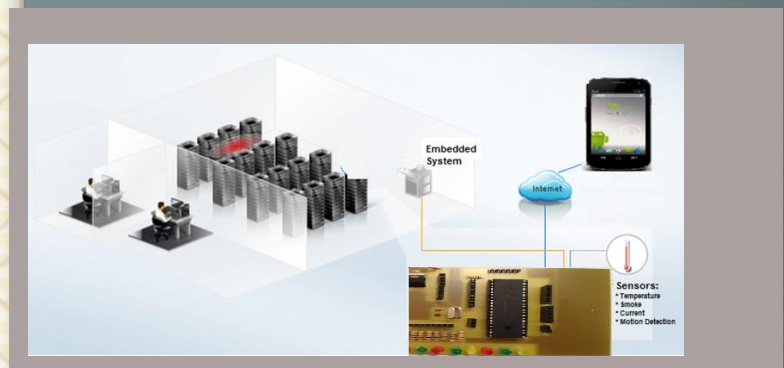
- Low cost
- Fast response
- User Friendly
- Multi users
- Secure
- Multipurpose design:
 - Home Automation
 - Monitor patients in hospitals
 - 2G/3G sites



Server Room



Data flow



Model of the project

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