

Presentation:

ABC of IoT &

Proposed IoT Project



Contents?

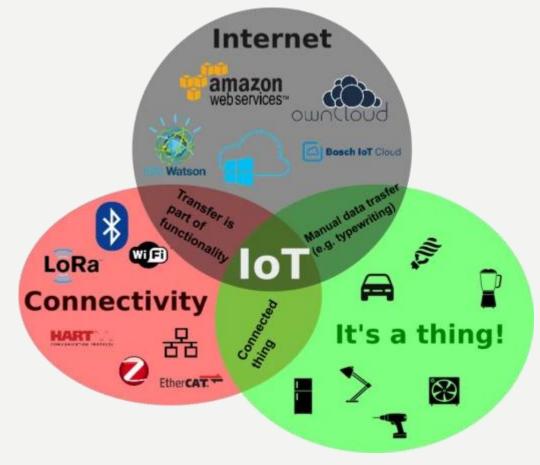
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What is IoT?

In layman term, the concept of combining computers, sensors, and networks to monitor and control devices.

Berif Explanation...





Computers and IoT?

LET'S CONCENTRATE FOR A BIT ON

THE COMPUTER

COMPUTERS ARE UBIQUITOUS WHAT ARE THEY EXACTLY?

PROGRAMMABLE

COMPUTER IS A MACHINE THAT CAN

1. TAKE IN AN INPUT

INPUTS CAN BE - FILES, MOUSE-CLICKS, TOUCH INPUT, TYPING THROUGH KEYBOARDS, DATA SENT FROM SENSORS

2. PERFORM A PRE-RECORDED

SET OF INSTRUCTIONS ON THAT INPUT

PROGRAM

MOST COMPUTERS USE MULTIPLE PROGRAMS FOR MULTIPLE TASKS



3. PRODUCE AN OUTPUT

OUTPUTS CAN BE -FILES, TEXT/IMAGES DISPLAYED ON A SCREEN, SOUND, INSTRUCTIONS TO OTHER DEVICES (TURN THE AC DOWN, TURN ON THE TV)

Not a Smart Devices

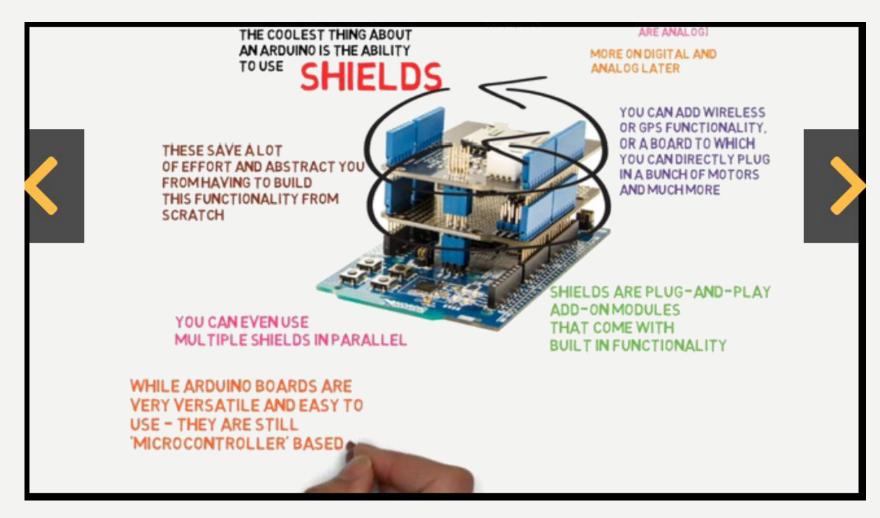


Microcontrollers makes a Devices Smart



Experimental Boards for R & D?

Adrino and Raspberry Pi....





Project Workflow?

Proposed IoT Project ···· Server Laser Senser internet With LCD Display

Html 5 & CSS

Web

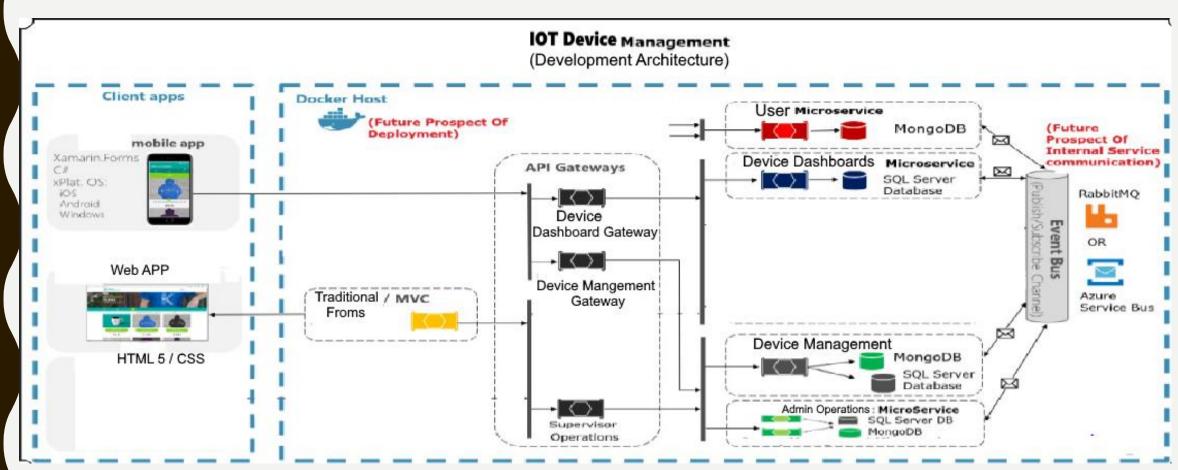
Portal

- Latest web technologies
- Relational Database
- DB Connectivity
- Backend Services
- Agile 1 week Sprints
- Simulated Unit Testing

Counter Device (College Library Footfall)



e.g. Architecture of IOT Web Portal!!



Micro-Service Architecture

Technology and SDLC









MongoDB





Micro-Services



Functional Requirement

Step 2



Project Development



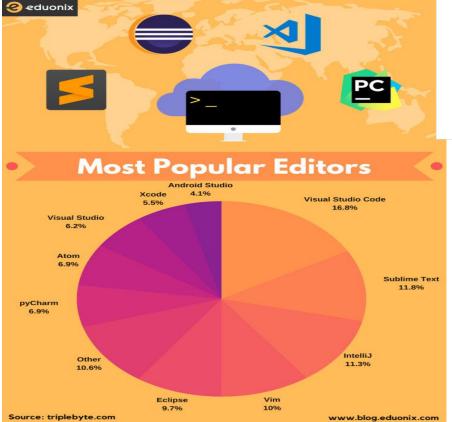
Step 4

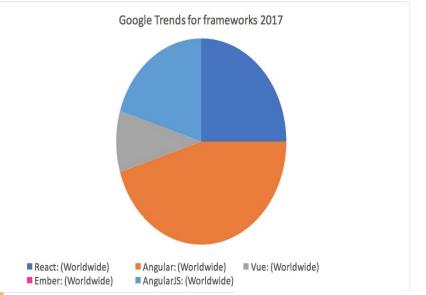
Project Testing & Deployment

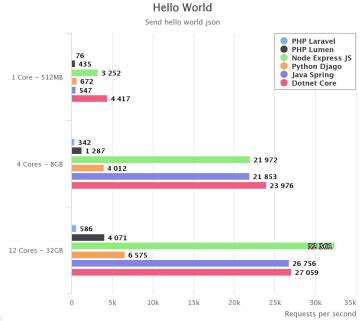
Technical Training

Exposer Of Tools And Technologies











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