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Dynamic Context Building for ROOF

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About the Prototype

IEEE PROJECT

1931.1 - Standard for an Architectural Framework for Real-time Onsite Operations Facilitation (ROOF) for the Internet of Things

- Working group chair : Mr. Syam Madanapalli – Director(IoT) of NTT Data
- Done as a undergrad project
- Part of the Standard's working group

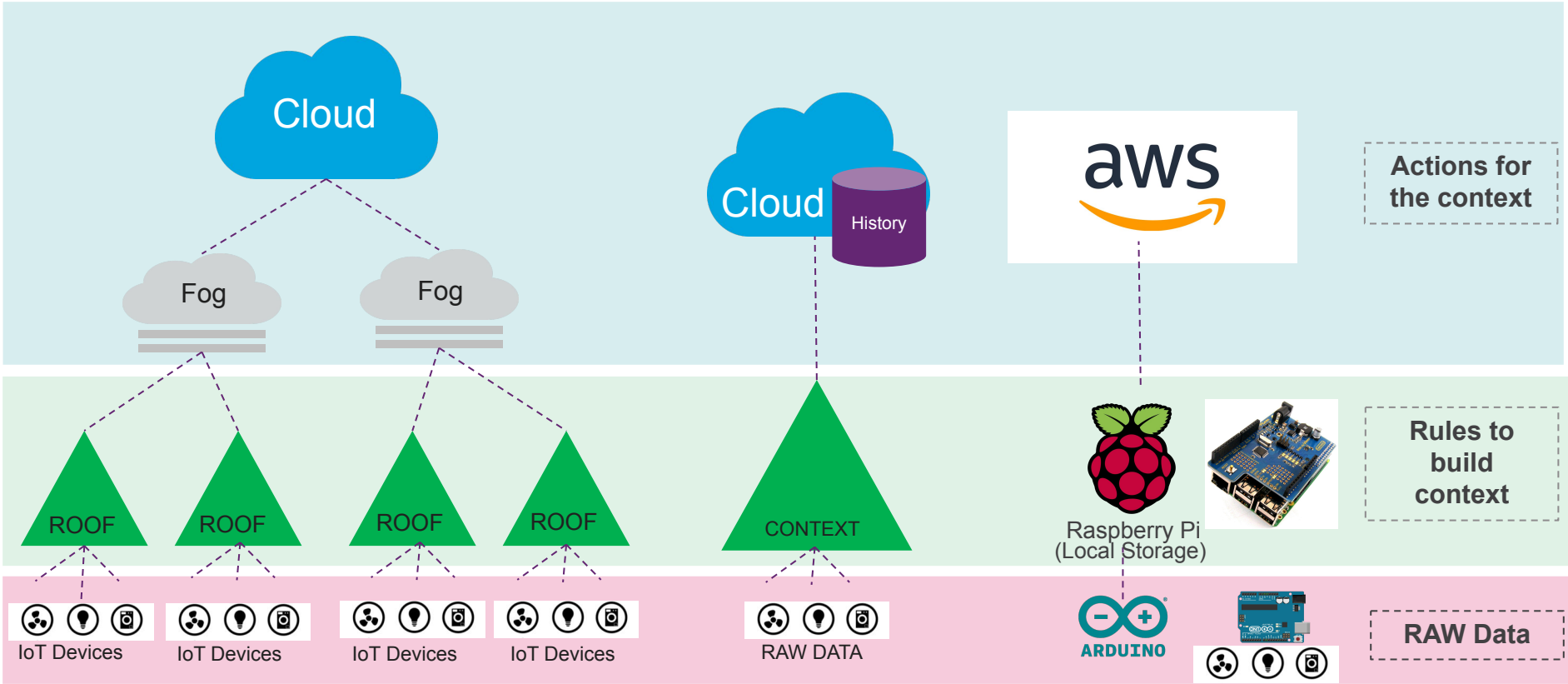
Internet of Things

- By 2020,50 Billion IoT devices are estimated to be connected to the cloud
- IoT Devices use the services from the cloud to build contexts based on the need of the users.

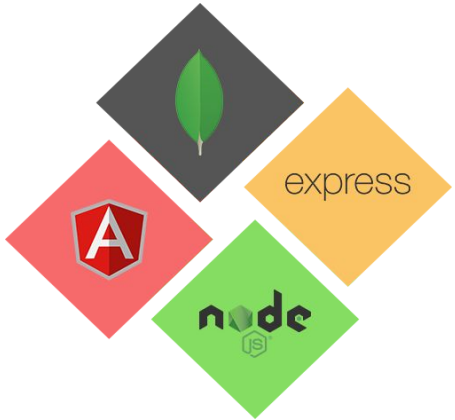
The Problem Statement

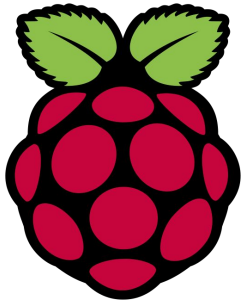
- For ‘n’ services, a (2^n)-1 contexts are possible i.e suppose n = 25 , then possible contexts are 33,554,431 .
- It is difficult to build ,understand or the need of every context while deploying the IOT application
- In this project , a context-building framework is developed and implemented for a basic Smart Home IoT application

ROOF in action

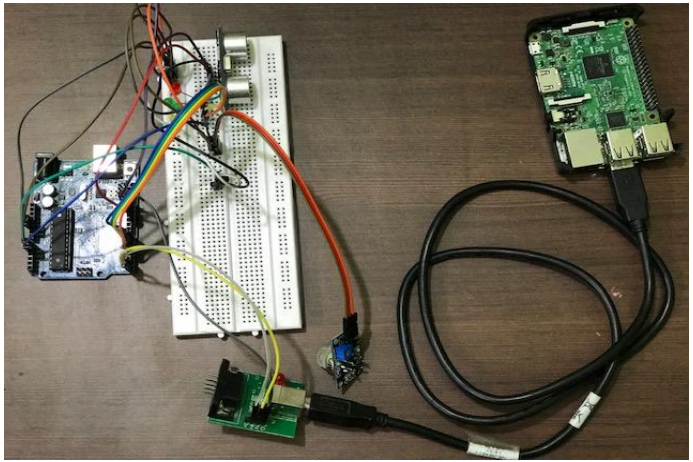


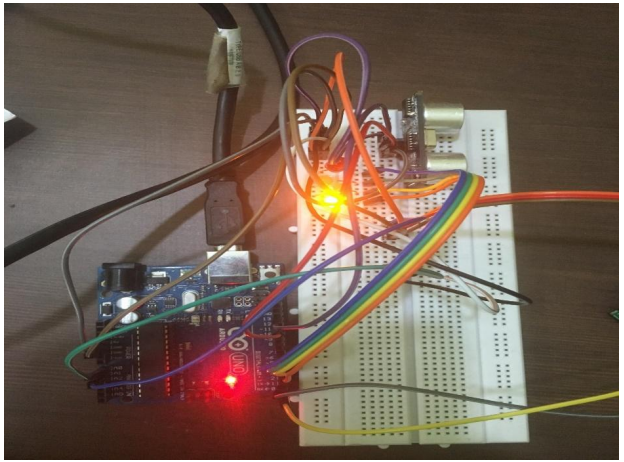
Platform and tools used





Implementation Setup





Thank you.

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