SUP'COM
Higher School of Communication of Tunis

Design Document
Pollution Monitoring System

Cloud of Things Project

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Problem:

Pollution has been dubbed as an essential problem in Tunisia. With more and more polluted areas across the country, the government is still struggling to control the toxicity levels caused by polluted areas, including random waste spots, uncontrolled dumpsters, etc.

Non-controlled dumpsters in cities are one of the main causes of urban pollution as they emit bad smells, are visually deterrent and can bring diseases and animals with it.

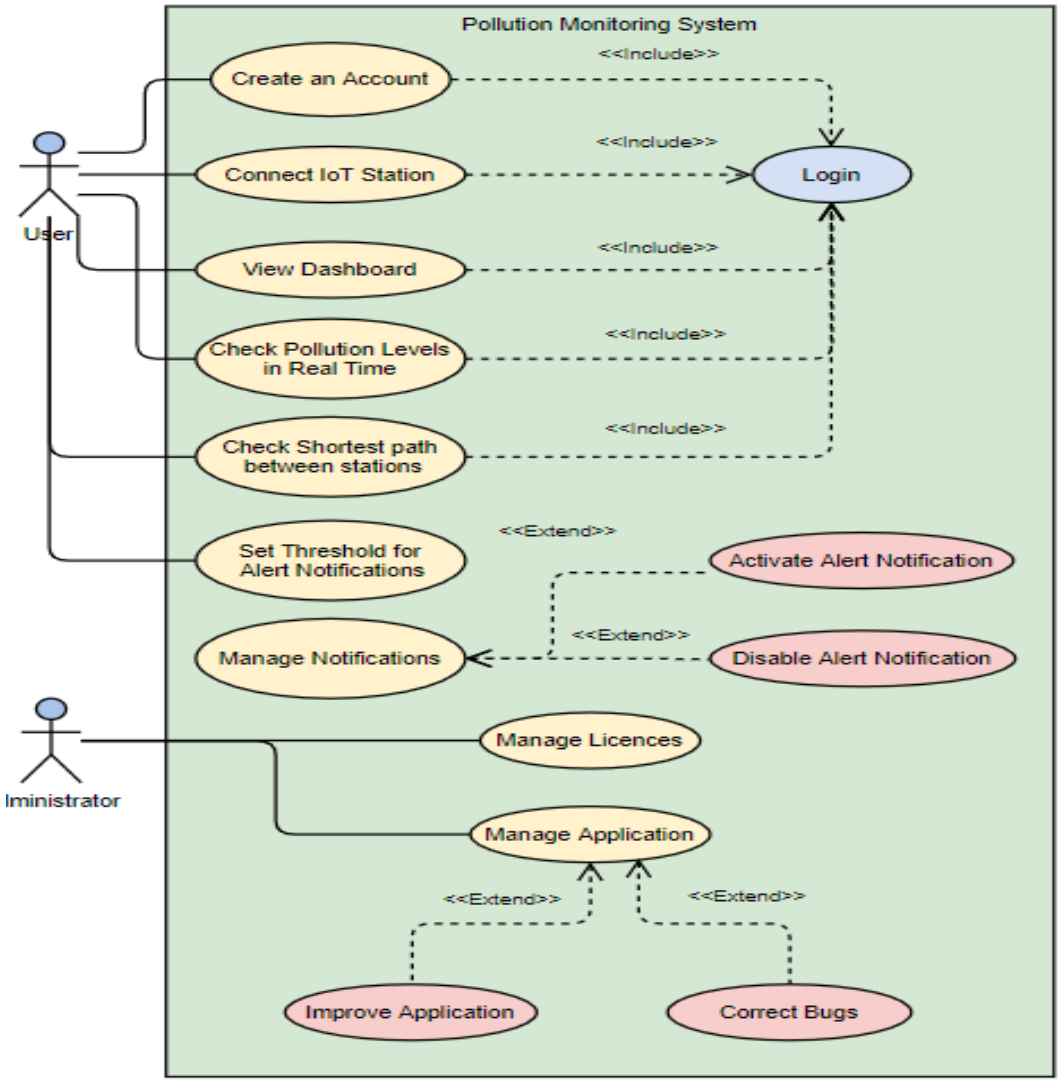
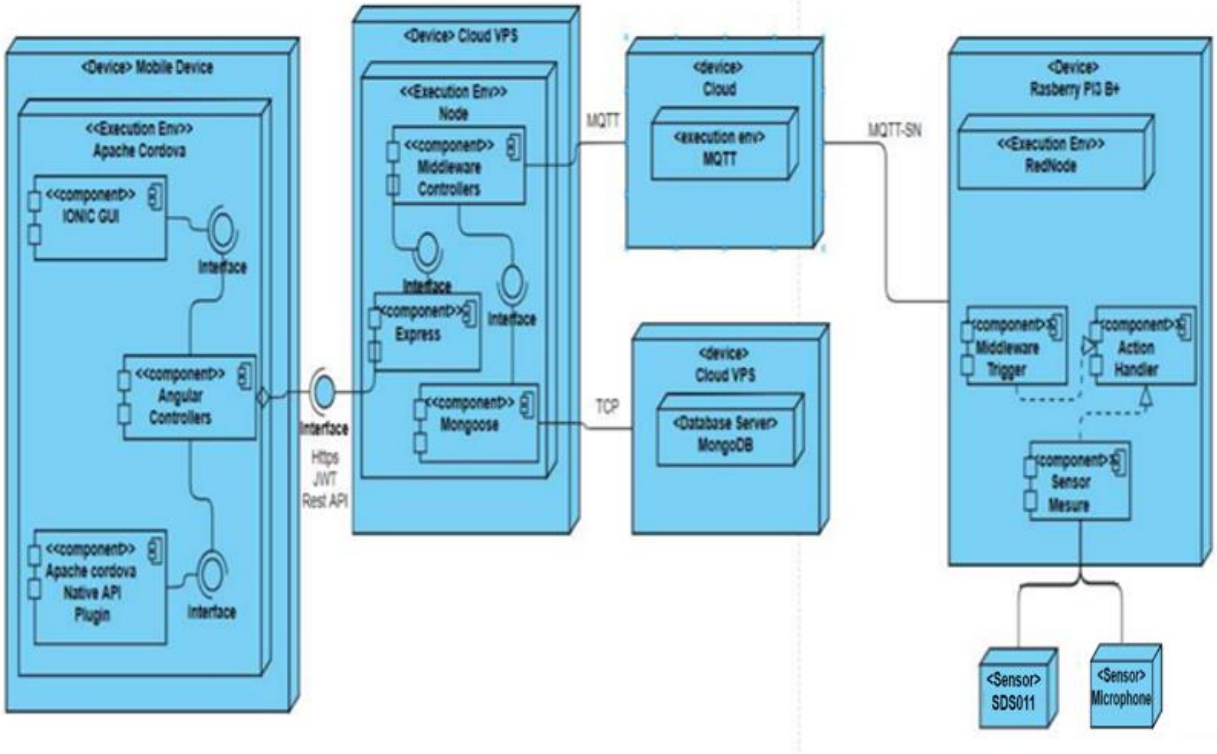
Solution:

The provided solution consists of tracking the pollution emitted in certain areas in a city to help the municipality of a city to reduce its level. The solution allows us to:

- Capture noise levels of the certain areas
- Capture PM2.5 and PM10 levels of dumpster areas
- Minimize the distance traversed by municipalities workers to clean the city
- Alert municipalities in case pollution levels reach a threshold
- View the emission history of pollution across different zones of a city

The solution makes it possible for municipalities to keep their cities clean and always monitored.

Use Case Diagram:



Deployment Diagram: