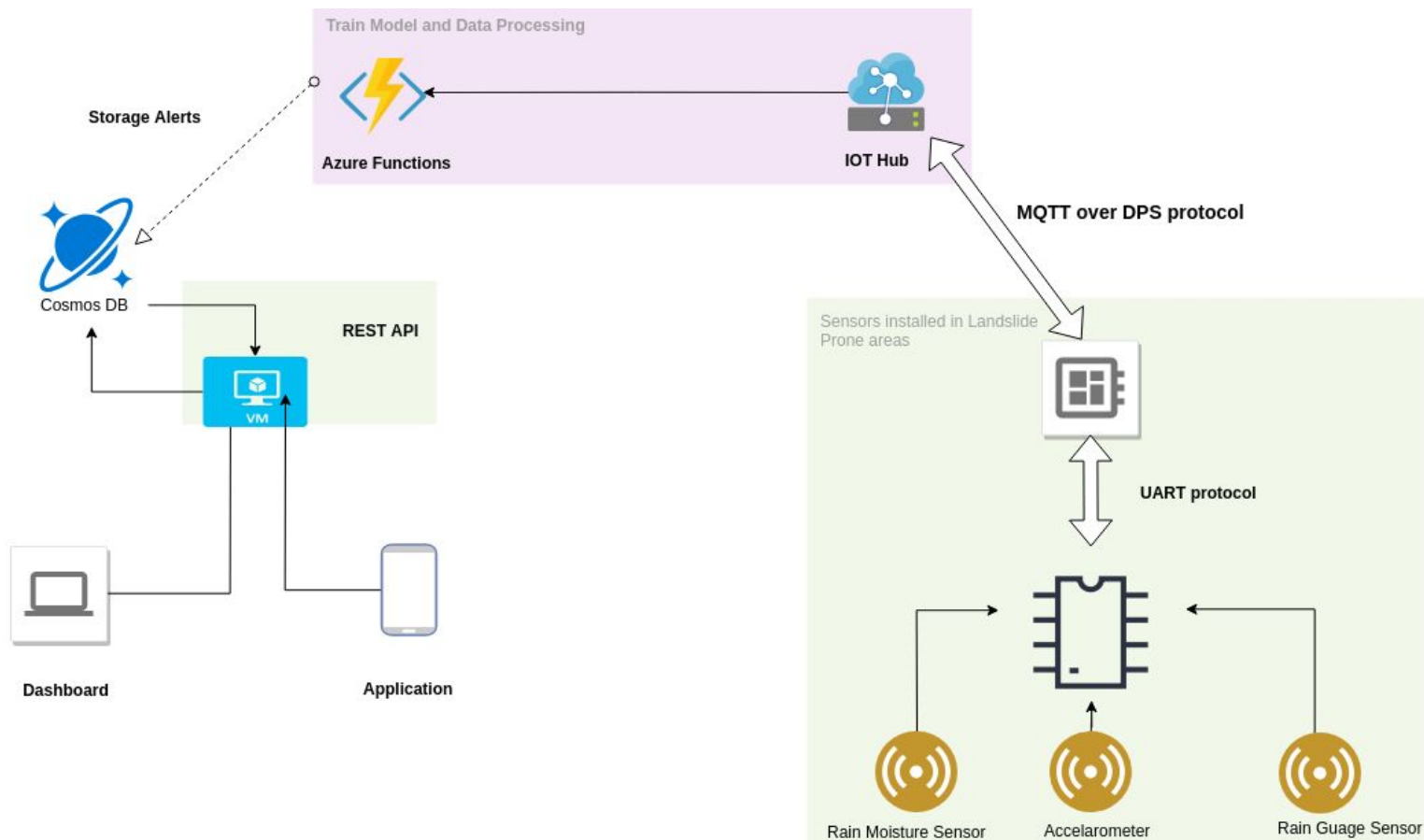


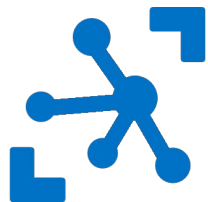
Landslide Detection and Early Warning System

A dark blue, diagonal, triangular shape that originates from the bottom-left corner and extends towards the top-right corner, covering the lower half of the slide.

Architecture



Azure Services Used



IoT Hub



Cosmos DB



IoT Central



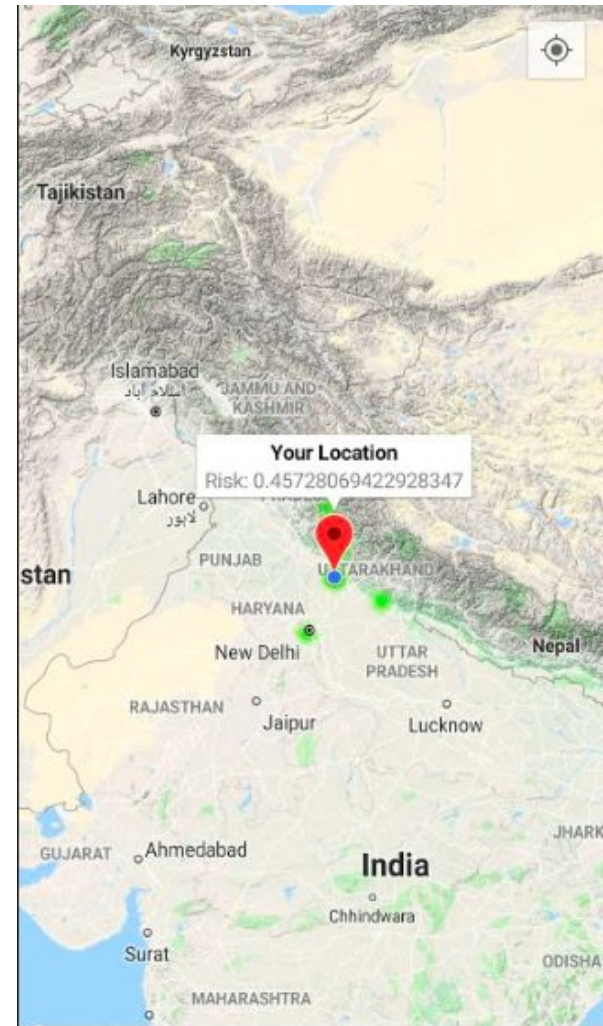
Functions



Azure VM

Slide Saver

The Android App
For Critical situation notification



MakerSense1 Console

sensor_pi_2
Risk Factor: 11%

sensor_pi_5
Risk Factor: 46%

sensor_pi_4
Risk Factor: 10%

sensor_pi_1
Risk Factor: 11%

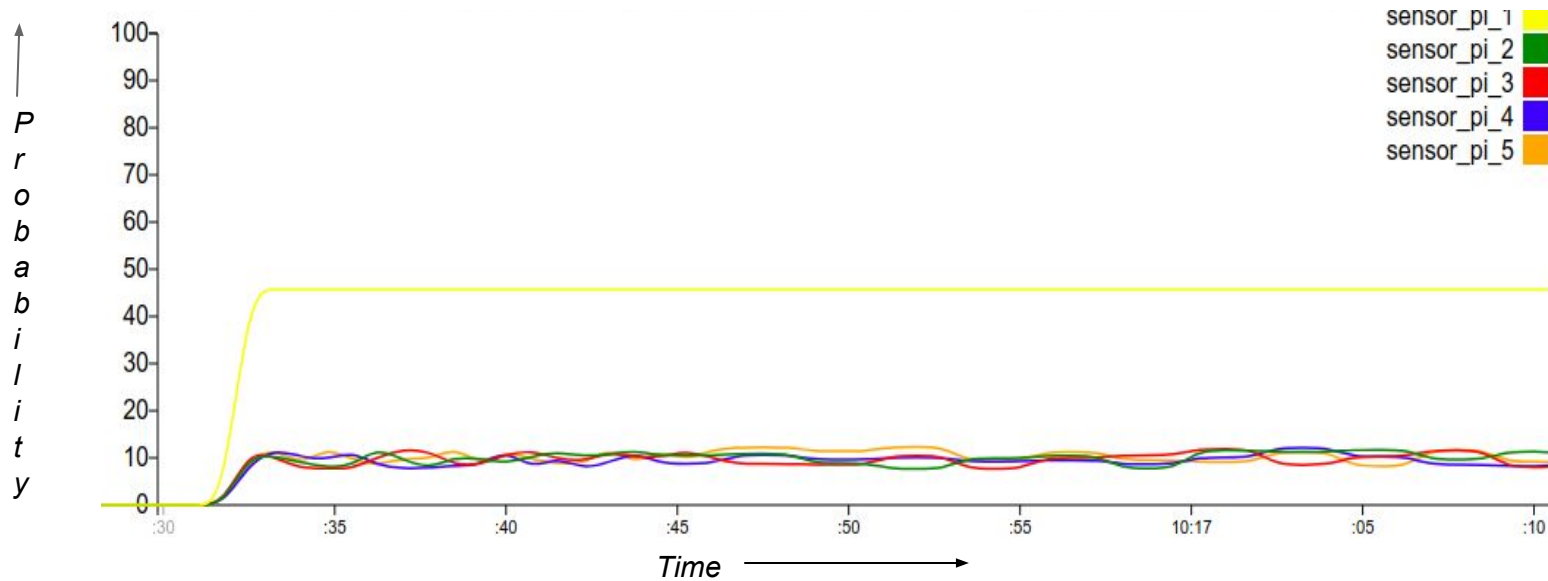
ID0 Graph View

Dashboard

Google

Map data ©2018 Google 20 km Terms of Use Report a map error

Risk Factor Visualization



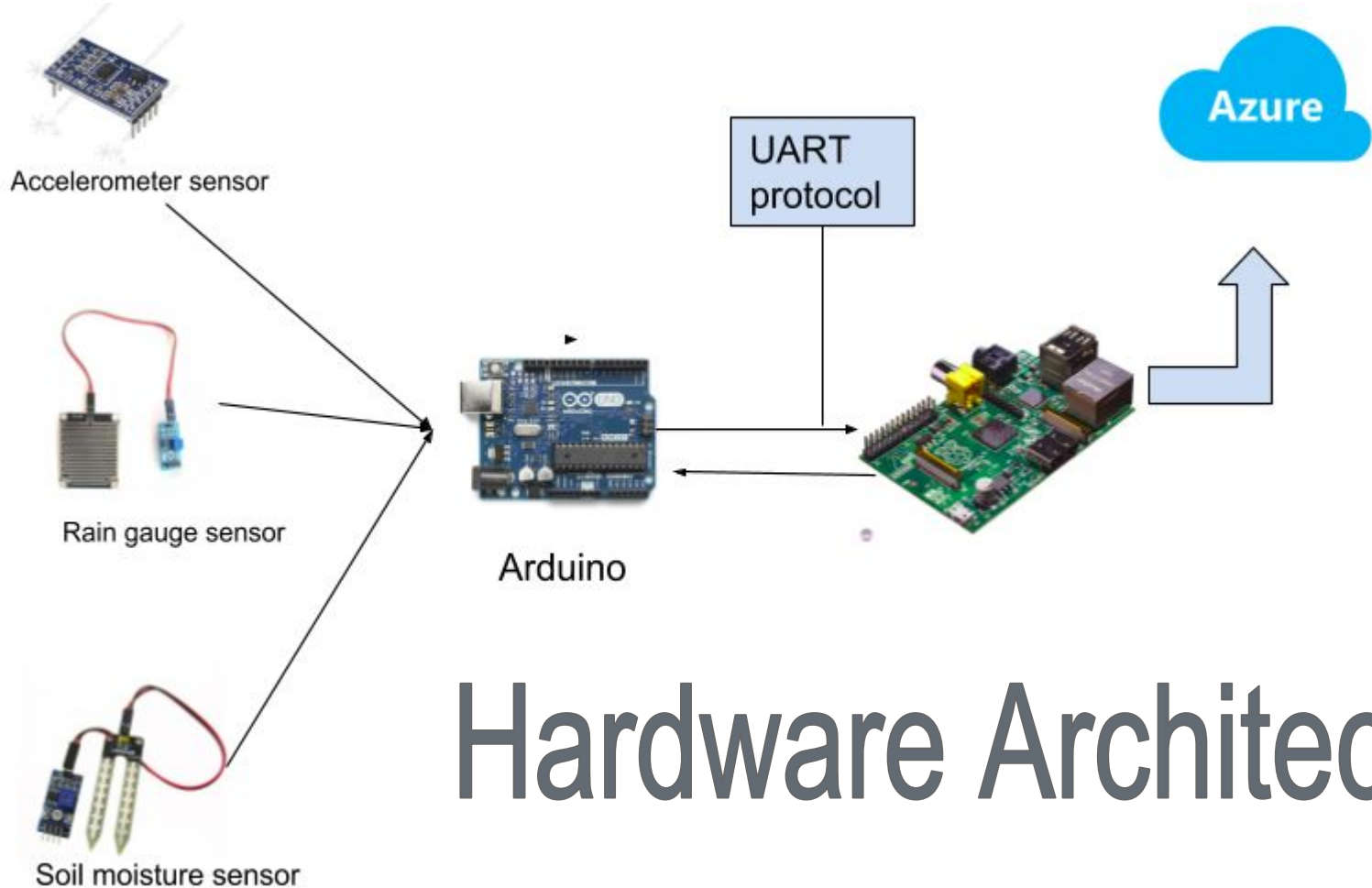
Risk factor for different sensor modules

Hardware

Setup

IoT: Components

- **Power Supply**
- **Microprocessor:** Raspberry Pi
- **Microcontroller:** Arduino
- **Sensors:**
 - Rain Gauge
 - Soil Moisture Sensor
 - Accelerometer



Hardware Architecture



POWER SUPPLY

RASPBERRY PI



ARDUINO



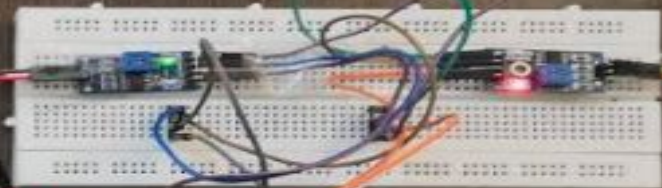
RAIN GAUGE



SOIL MOISTURE



ACCELEROMETER



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