

Project Design Phase-I
Solution Architecture

Date	31october 2022
Team ID	PNT2022TMID08252
Project Name	EMERGING METHODS FOR EARLY DETECTIONOF FOREST FIRE
Maximum Marks	4 Marks

SOLUTION ARCHITECTURE:

- Our solution aims at collecting a vast range of dataset to test and train the model regularly using CNN where the system can detect immediately if any ignition of fire is found.
- Then, the Cloudant DB is brought to use where the large amount of data is stored and fetched which acts as a server.
- Open CV acts as a tool for the processing the videos that are captured.
- Bosch BME688 sensor is used in order to re-confirm the fire.
- Twilio API is used to alert the authorities when the fire is detected.

SOLUTION ARCHITECTURE DIAGRAM:

