Project Details

- Design and develop an environment monitoring IoT device with a data logger server application
 - Device should be capable of monitoring any 4 of the following parameters
 - ► Temperature
 - **►** Humidity
 - ► Barometric pressure (air pressure)
 - ► Ambient light level
 - Wind direction
 - Wind speed
 - ► Rainfall
 - Should be capable of operating on low power with unreliable connectivity

Project Details

- Should transmit data to a remote server using CAP (Common Alerting Protocol) over the Internet.
- ► Should update server every 15 minutes based on the average and standard deviation of last 15minute data. Should be capable of operating with cached updates when connection is lost.
- Should be capable of self-recovery from power failures or other types of transient faults
- Server app should run remotely on PC based envronment

Project Details: Deliverables

- Project report containing
 - Scope of the project
 - Special features (if any)
 - Diagram to explain high-level design
 - List of components and their cost
 - Schematic diagram giving all components
 - Description on how fault recovery options are implemented
 - Algorithm used for device and server (Pseudo code)
 - Full source code (an Annexure)
- Working prototype