**Cloud Based Real-time Analytical Monitoring of Photovoltaic Systems**

Meeting Minutes

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| Meeting Date: | 05/02/2018 |
| Meeting Location: | Meeting Location: NUS BLK E3A, #06-10 7 Engineering Drive 1 Singapore 117574 |
| Recorded By: | Kaung Myat Bo |

# 1 ATTENDANCE

Kaung Myat Bo

Agnes

Treza

Soe Pyae(Client)

# 2 MEETING START

Meeting Schedule Start: 5:00 PM

Meeting Actual Start: 5:00 PM

# 3 AGENDA

* Project kickoff meeting
  + There is an existing application running on their own premises which is receiving data from the devices that are installed around the globe for research purpose.
  + Those devices are sending data in different format, different parameters and difference parameter sequences as the program in the devices were written by different developers. Same thing had been happened for the existing application.
  + Whenever there is a new device coming in, the programmer has to write a new chunk of codes to receive incoming data from the new device.
  + The whole project will be divided into 4 main modules, which are the followings:
    1. Receiving modules from the devices
    2. Displaying real-time data, which comes from the devices, to the users
    3. Displaying real-time device health statuses
    4. Sending data from the devices to WebDAV once in a month
  + The client wants to use to move all the above modules into AWS cloud. They also would like to use AWS native/managed services to avoid managing the infrastructure by themselves.
  + The devices will send data in every second and minute and the data are stored in the database for analysis purposes.
  + The cloud application should be developed in a way of scalable, configurable and secured.
  + The new cloud application should have a configuration feature for different kind of device parameters
  + Discussed how to store incoming data, which will have different fields.

# 4 MEETING END

Meeting Schedule End: 6:30 PM

Meeting Actual End: 8:00 PM

# 5 DECISIONS MADE

* AWS IoT will be used for receiving data
* AWS Lambda will be used to transform raw (original) data to structured data.
* AWS Dynamo will be used to store both raw and structured data.