**Link Stations Assignment**

# Overview

This application is developed as part of the NordCloud assignment.

# Goals

1. To find the best power station to the given device location(s).

# Specifications

1. Link stations have reach and power.
2. A link station’s power can be calculated:

power = (reach - device's distance from linkstation)^2

if distance > reach, power = 0

# Techstacks

1. Node js (for business logic execution )
2. Mocha and Chai npm plugins are used for unit testing frameworks
3. Nodemon, debug are used for development purposes
4. Nyc is used for code coverage

# How to run the application

1. To install the application, go to root folder and then execute the below command

**>> npm install**

1. To run the application

**>> npm start**

1. To run the application in debug mode

**>> npm run dev**

1. To run unit tests

>> **npm test (or) npm run test**

1. To run tests and verify the code coverage

**>> npm run coverage**

# Running application in docker

Inorder to run the application in docker, first we need to build the docker image out of application.

1. From the root folder fo the application, execute the below command

**>> docker build . -t nordcloud-linkstations**

1. Run the application using docker run command

**>> docker run nordcloud-linkstations**