**Design Document**

**Connection between gateway and configuration and management server:**

1. A gateway connects to configuration and management server using a post request to the server.
2. The post request contains username, password, subscribe key, publish key and channel name.
3. The configuration and management server will first authenticate the user (using the username and password supplied in the step 2) with its users database.
4. After successful authentication, the server will add the entry which contains username, subscribe key, publish key and channel name to the usergateways database.

**Configuration and management server UI:**

1. Any client can connect to configuration and management server to access its services.
2. The home page gives choice to either login or signup as a new user.
3. A new user can sign up and his details will be added to users database and after that he can connect his gateways to the server using his account details.
4. An existing user can login and the information will be shown on his home page.
5. For now, it contains the details like no. of gateways associated with that user, gateways which are connected with each other through a channel and subscribe key, publish key of each gateway associated with that user.

**Technologies Used:**

1. Language : NodeJS
2. Backend database : mongoDB