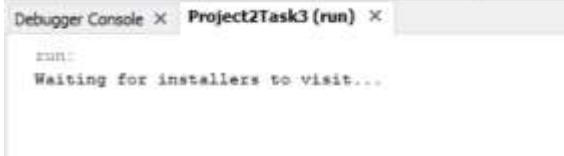


Scenario 1: Barack installs sensor 1

Server:

When the server is run for the first time it will no more prompt the user for the symmetric session key. It will wait for the client to send the key encrypted using its public key. Keys are derived from keystore



Upon the data transmission from client the server deciphers the session key using its private key and use the session key to decrypt further messages.

Server maintains the state, update the KML file accordingly in the desktop and displays the a logs a message on the console

KML



Client:

Scenario 2: Barack moves sensor 1

Server

```
run:
Waiting for installers to visit...
Got visit 1 from Barack, Chief Sensor Installer
Got visit 2 from Barack, Chief Sensor Installer, a sensor has been moved
|
```

KML:



Client

```
Enter your ID:
Barack
Enter your Password:
baracko
Enter sensor ID:
012323
Enter new sensor location:
-79.96002024, 40.43529865, 0.000
Thank you. The sensor's new location was securely transmitted to GunshotSe
BUILD SUCCESSFUL (total time: 27 seconds)
|
```



Scenario 3: Donald installs sensor 2

Server

```
run:
Waiting for installers to visit...
Got visit 1 from Barack, Chief Sensor Installer
Got visit 2 from Barack, Chief Sensor Installer, a sensor has been moved
Got visit 3 from Donald, Associate Sensor Installer
```

KML



Sensors.kml

Client

```
run:
Enter your ID:
Donald
Enter your Password:
donalddt
Enter sensor ID:
454356
Enter new sensor location:
-79.95920304, 40.4398469, 0.00
Thank you. The sensor's location was securely transmitted to GunshotSensing In
BUILD SUCCESSFUL (total time: 17 seconds)
```

Scenario 4 : Donald attempts to relocate sensor 2

Server

```
run:
Waiting for installers to visit...
Got visit 1 from Barack, Chief Sensor Installer
Got visit 2 from Barack, Chief Sensor Installer, a sensor has been moved
Got visit 3 from Donald, Associate Sensor Installer
Got visit 4 from Donald, Associate Sensor Installer, authorization failure to relocate sensor
|
```

KML



Sensors.html

Client

```
run:
Enter your ID:
Donald
Enter your Password:
donaldd
Enter sensor ID:
454356
Enter new sensor location:
-79.94893572, 40.44583796, 0.00
You dont have sufficient previleges to relocate the Sensor!
BUILD SUCCESSFUL (total time: 20 seconds)
|
```



Scenario 5: Donald forgot his password

Server

```
Waiting for installers to visit...
Got visit 1 from Bazack, Chief Sensor Installer
Got visit 2 from Bazack, Chief Sensor Installer, a sensor has been moved
Got visit 3 from Donald, Associate Sensor Installer
Got visit 4 from Donald, Associate Sensor Installer, authorization failure to relocate sensor
Illegal password attempt, This may be an attack
```

Client

```
run:
Enter your ID:
Donald
Enter your Password:
DonaldT
Enter sensor ID:
435443
Enter new sensor location:
-79.96002024, 40.43929865, 0.000
Invalid ID or Password
BUILD SUCCESSFUL (total time: 21 seconds)
```