

```
1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Web;
5 using System.Diagnostics;
6 using System.Data.OleDb;
7
8 using uPLibrary.Networking.M2Mqtt;
9 using uPLibrary.Networking.M2Mqtt.Messages;
10
11 namespace GIP_Smart.Pages.Classes
12 {
13     public class Networkcommunicatie
14     {
15         Settings settings = new Settings();
16
17         public MqttClient mqttClient;
18
19         string broker;
20         string topic;
21
22         string query;
23         string connstring = connStrings.connString;
24
25         public Networkcommunicatie()
26         {
27             this.topic = settings.GetTopic;
28             this.broker = settings.GetBroker;
29
30         }
31         public void Network()
32         {
33             mqttClient = new MqttClient("test.mosquitto.org");
34
35
36
37             //string clientId = Guid.NewGuid().ToString();
38
39             //mqttClient.Connect(clientId);
40             //TextBox1.Text = "subscriber: arduino/simple";
41             mqttClient.Subscribe(new string[] { "topic1" }, new byte[]
42                 { MqttMsgBase.QOS_LEVEL_AT_LEAST_ONCE });
43
44             mqttClient.Connect("test.mosquitto.org");
45
46         }
47         public void client_receivedMessage(object sender,
48             MqttMsgPublishEventArgs e)
49         {
50             var message = System.Text.Encoding.Default.GetString
51                 (e.Message);
```

```
51         string temperature = Convert.ToString(message.Split('#'));
52         string current = Convert.ToString(message.Split('#'));
53
54         query = string.Format("INSERT INTO Verlichting(Stroom,      ↗
            Temperatuur, Tijd) VALUES ({0}, {1} '{2}');" , temperature, ↗
            current, DateTime.Now);
55         UitvoerenQuery(connstring, query);
56
57         //TextBox1.Text += "message received: " + message;
58         //Label1.Text = "message received: " + message;
59         Debug.WriteLine(message);
60     }
61
62     static void UitvoerenQuery(string connstring, string query)
63     {
64         OleDbConnection connection = new OleDbConnection();
65         connection.ConnectionString = connstring;
66
67         try
68         {
69             connection.Open();
70
71             OleDbCommand command = new OleDbCommand();
72             command.Connection = connection;
73             command.CommandText = query;
74
75             command.ExecuteNonQuery();
76         }
77
78         catch (OleDbException error)
79         {
80             Console.WriteLine(error.Message);
81
82         }
83
84         finally
85         {
86             connection.Close();
87         }
88     }
89 }
90 }
```