# DeviceExplorer Requirements

## Configuration

1. Provide default connection string values for Device Hub & Event Hub
2. Provide ability to update these connection strings.
3. Device Hub connection string follows the example:
   1. HostName=sdktesthub.private.azure-devices-int.net;CredentialType=SharedAccessSignature;CredentialScope=DeviceHub;SharedAccessKeyName=owner;SharedAccessKey=EpYdDXMLZ4ZnGrXgE7bxaq62LLt1TQrwMVTK9/ks9Ys=
4. Event Hub connection string follows the example:
   1. Endpoint=sb://partnersbnamespace.servicebus.windows.net/;SharedAccessKeyName=owner;SharedAccessKey=+bI/QoWvqdNl87Qwz60Kxk5OggzggFn/Y7SCXS5WWQ8=;EntityPath=dh-eh-7bcdfeb0-573f-48a8-9d1a-65f9d3f56cd7
5. Provide ability to generate an authority key per device.

## Management

1. Create new device
   1. Allow user to specify a device ID, a primary key and a secondary key.
   2. Allow user to select to auto generate device ID via check box.
   3. Allow user to select to auto generate both keys.
2. List existing devices in GridView exposing device properties stored on Device Hub.
3. Provide ability to update device Keys.
4. Provide ability to delete a device

## Data

1. Retrieve data from EventHub for a specific ID.
2. Device IDs are listed in a drop down list for the user to select from.
3. Start & Stop monitoring of data
4. Clear data output.

## Notification

1. Specify device to send notification to via a drop down list
2. Specify data to send to device
3. Add time stamp to notification