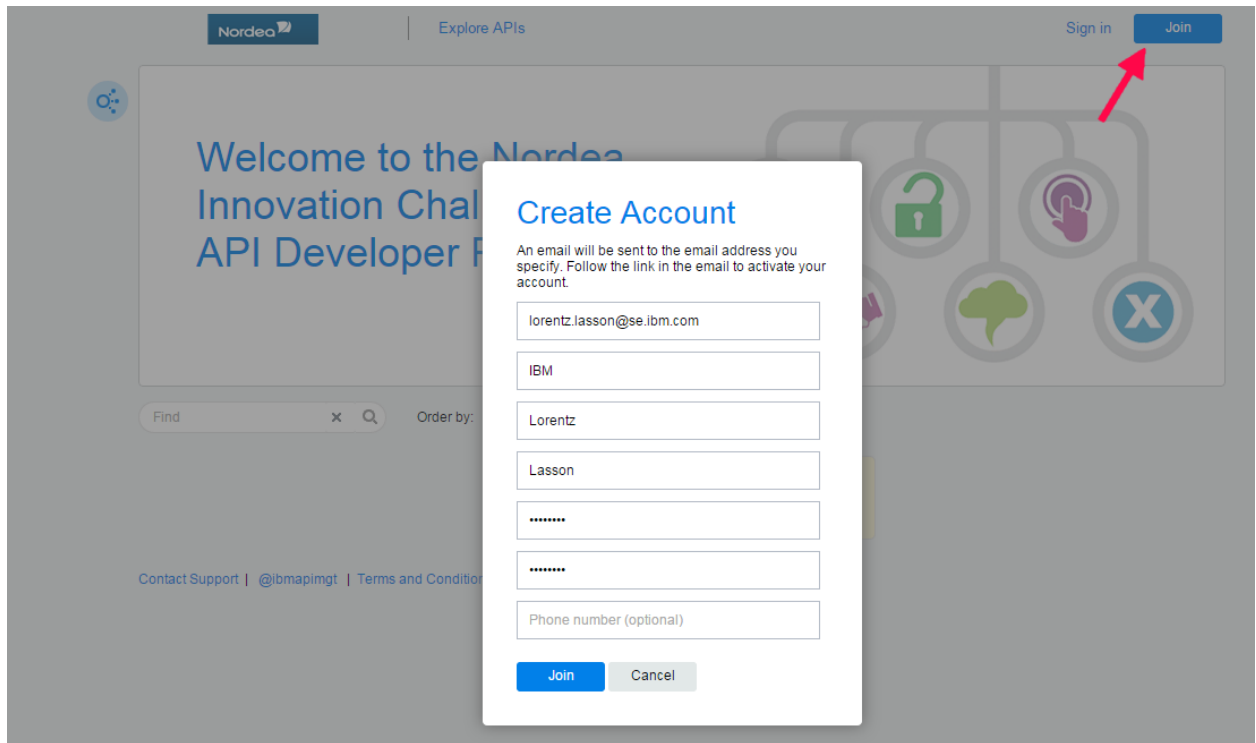


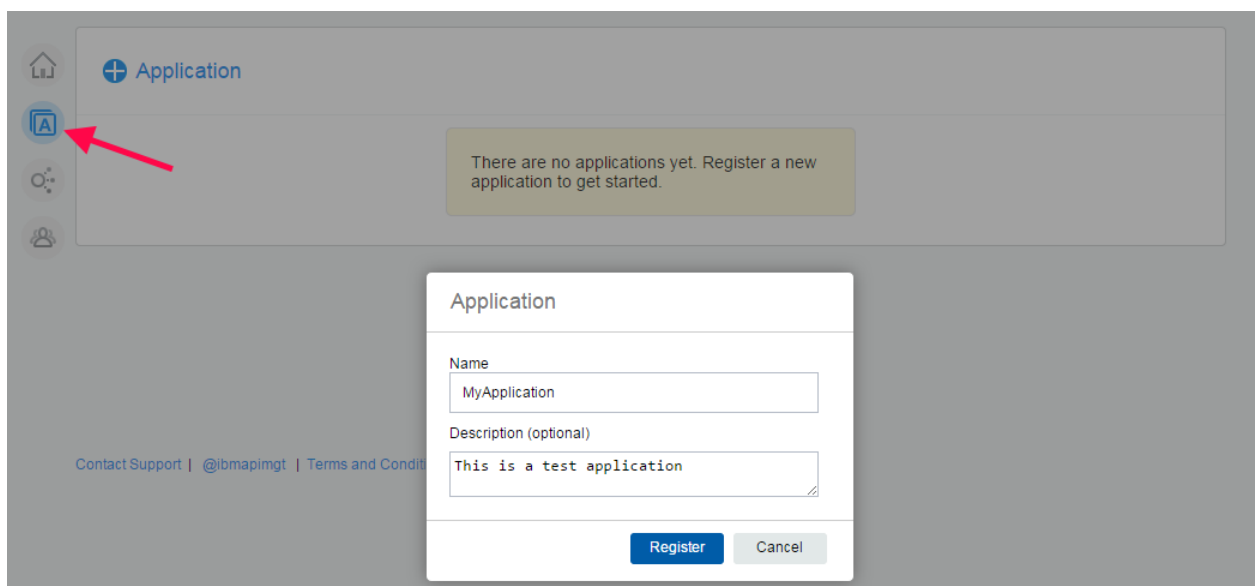
DEVELOPER COOKBOOK

API MANAGER

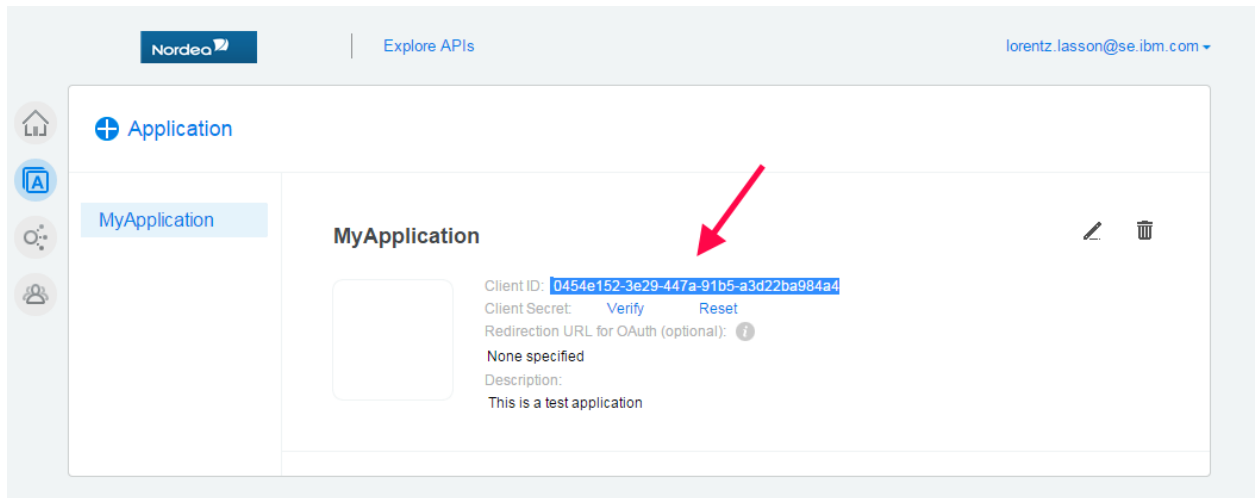
1. Go to <https://nordea.icds.ibmcloud.com/nordea/sb#/apis> and sign up.



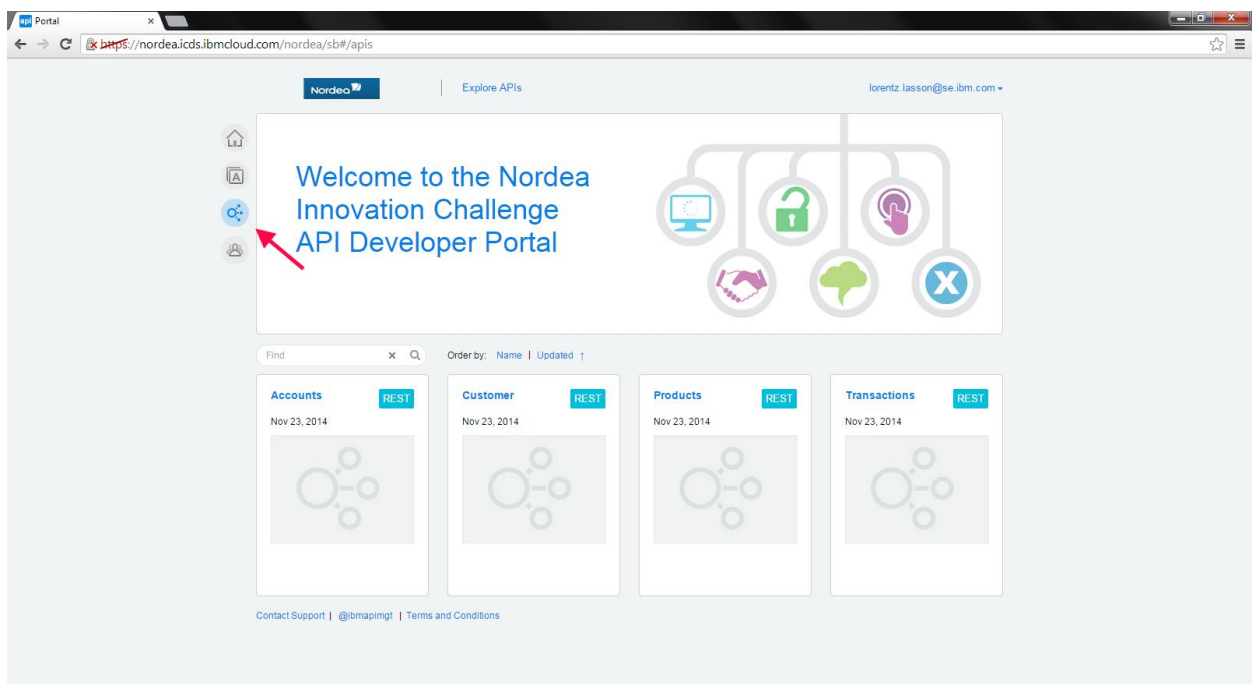
2. Login to API Manager.
3. Go to the Applications tab on the left and create an application.



- This will provide you with a client id and a client secret. The **client id** is the only key that will be used for this event.



- Now go to the APIs tab.



- This will display the API categories. Click on one of the API categories. This will show you the different APIs in that API category. If you click on the + icon, the API information expands. Here you see all the information you need to call the APIs.

NODE.JS

If you decide to use the Node.js runtime. Here is an example of how an implementation calling the “Get Account” API could look. In addition to node.js, this snippet also uses the express.js framework and the built in HTTPS module (<http://nodejs.org/api/https.html>).

Notice that client id has to match the one generated when you created your application in API Manager.

```
app.get('/api/getAccount/:id', function(req, res){
  var options = {
    host: 'nordea-api.icds.ibmcloud.com',
    path: '/nordea/sb/accounts/get?AccountId='+req.params.id+"&client_id=0454e152-3e29-447a-91b5-a3d22ba984a4",
    method: "GET",
    port: 443,
    rejectUnauthorized: false,
    headers: {
      "Content-Type": "application/json"
    }
  };

  var data = "";
  var apiReq = https.request(options, function(response) {
    response.on('data', function(d) {
      data += d;
    });
    response.on('end', function() {
      res.send(data);
    });
    response.on('error', function(error) {
      process.stdout.write(error);
    });
  });
  apiReq.end();
});
```



To invoke that code from the client, this code is used:

```
app.controller('AccountCtrl', function($scope, $http){
  $scope.getAccount = function(){
    $http.get("api/getAccount/"+$scope.accountId)
      .success(function(response){
        $scope.account = response;
      })
      .error(function(response){
        console.log(response);
      });
  };
});
```

The client uses the Angular.js framework, but of course any client side framework works.

You can find the source code to the application here: https://ibm.biz/nic_demo_nodejs_source

And you can find the application deployed here: https://ibm.biz/nic_demo_nodejs

The architecture of the application looks like this:



Angular.js as the front end, Node.js as the backend and the API Manager provides the APIs.

JAVA .LIBERTY

If you decide to use the Java .liberty runtime. Here is an example of how the implementation could look.

<TODO>