

Inventory Management System

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Group 2 - Project Phase 4-5

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Different Users and Passwords:

- a. Username: sg; Password: sg123, Email: sg@gmail.com
- b. Username:user, Password: user, Email: prachi.goel06@gmail.com

Serverless Implementation Details:

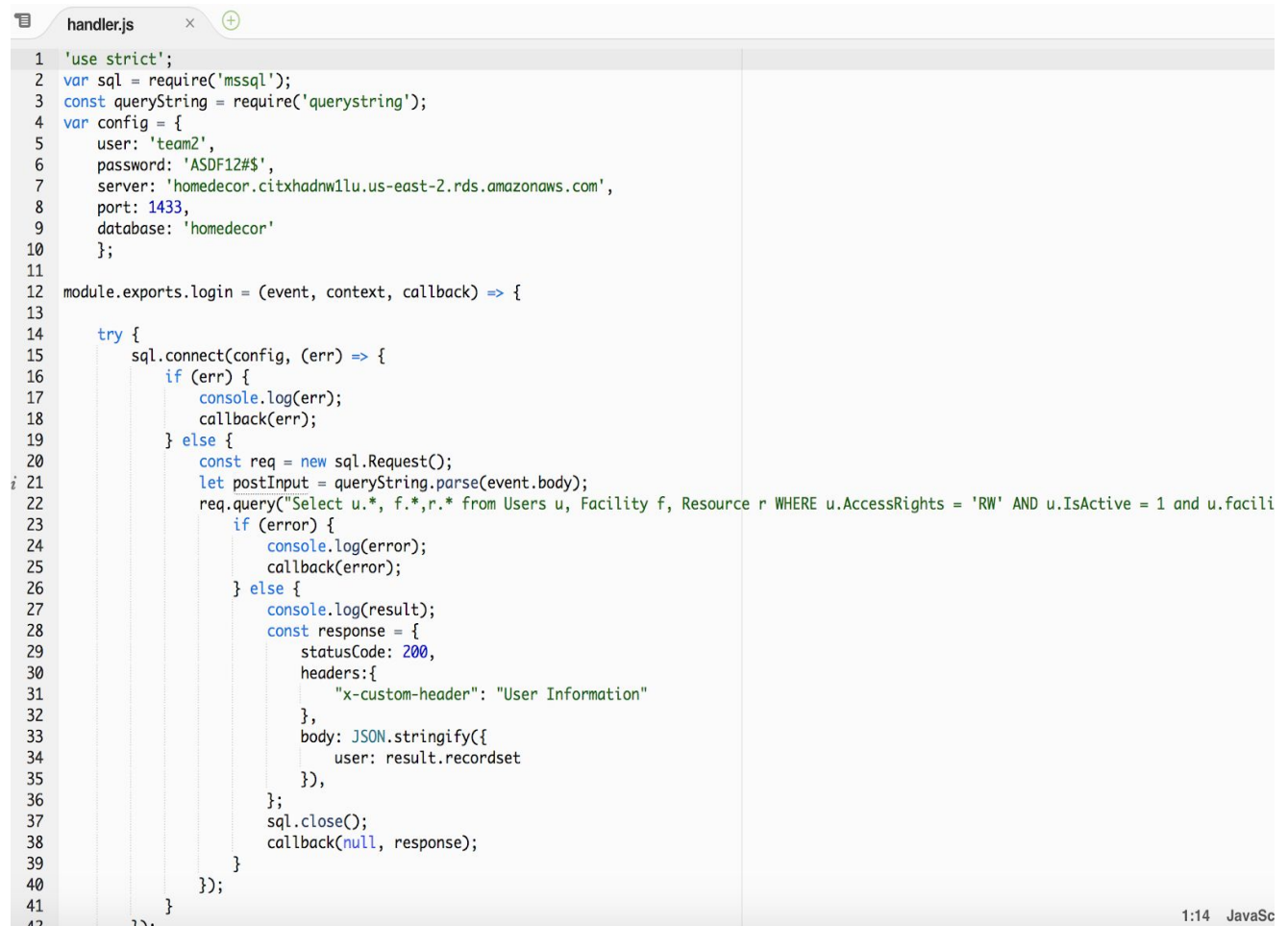
API Endpoints and parameters, Lambda function and API gateway tests Screenshots:

Login:

<https://9h0w7nk1m5.execute-api.us-east-2.amazonaws.com/test/users?key=prachi.goel06@gmail.com>

Parameters:

```
{
  "key": "sg@gmail.com"
}
```



```
1 'use strict';
2 var sql = require('mssql');
3 const queryString = require('querystring');
4 var config = {
5   user: 'team2',
6   password: 'ASDF12#$',
7   server: 'homedecor.citxhadnw1lu.us-east-2.rds.amazonaws.com',
8   port: 1433,
9   database: 'homedecor'
10 };
11
12 module.exports.login = (event, context, callback) => {
13
14   try {
15     sql.connect(config, (err) => {
16       if (err) {
17         console.log(err);
18         callback(err);
19       } else {
20         const req = new sql.Request();
21         let postInput = queryString.parse(event.body);
22         req.query("Select u.*, f.*,r.* from Users u, Facility f, Resource r WHERE u.AccessRights = 'RW' AND u.IsActive = 1 and u.facili");
23         if (error) {
24           console.log(error);
25           callback(error);
26         } else {
27           console.log(result);
28           const response = {
29             statusCode: 200,
30             headers: {
31               "x-custom-header": "User Information"
32             },
33             body: JSON.stringify({
34               user: result.recordset
35             })
36           };
37           sql.close();
38           callback(null, response);
39         }
40       }
41     });
42   }
43 }
```

1:14 JavaSc

Resources

Actions

Method Execution

/EmailVal - ANY - Method Test

/

/EmailVal

ANY

Make a test call to your method with the provided input

Method

GET

Path

No path parameters exist for this resource. You can define path parameters by using the syntax **{myPathParam}** in a resource path.

Query Strings

{EmailVal}

sg@gmail.com

Headers

{EmailVal}

Use a colon (:) to separate header name and value, and new lines to declare multiple headers. eg. Accept:application/json.

Request: /EmailVal?sg@gmail.com

Status: 200

Latency: 191 ms

Response Body

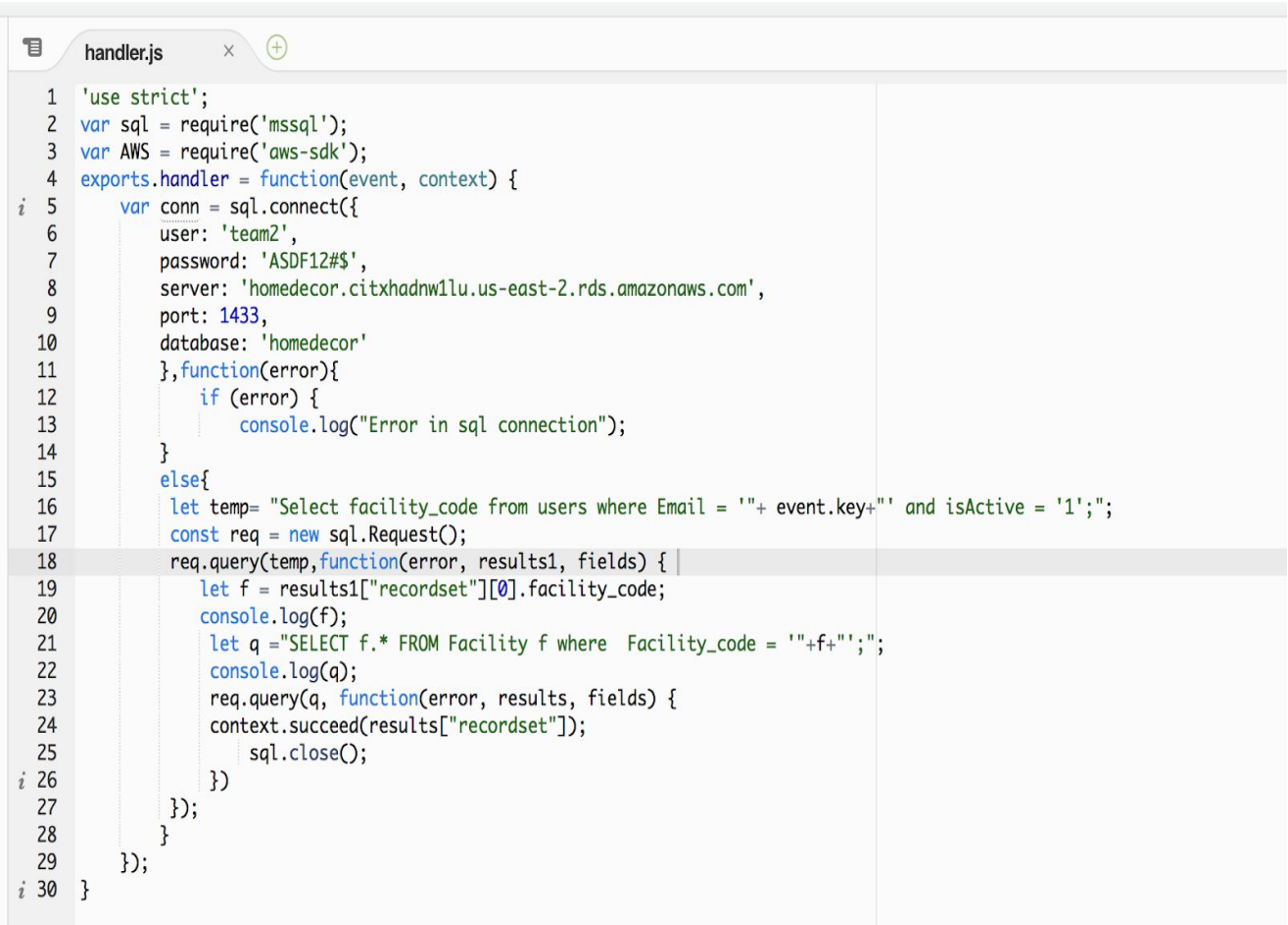
```
{
  "user": {
    "UserID": 1,
    "AccessRights": "RW",
    "UserName": "sg",
    "UserPassword": "sg123",
    "Email": "sg@gmail.com",
    "isActive": [
      true,
      true,
      false
    ],
    "Facility_code": [
      1,
      1,
      1
    ],
    "Facility_description": "A Facility at ERB",
  }
}
```

Get Facility:

<https://qybdp0dsia.execute-api.us-east-2.amazonaws.com/test/facility?key=sg@gmail.com>

Parameters:

```
{
  "key": "sg@gmail.com"
}
```



```
1 'use strict';
2 var sql = require('mssql');
3 var AWS = require('aws-sdk');
4 exports.handler = function(event, context) {
5   var conn = sql.connect({
6     user: 'team2',
7     password: 'ASDF12#$',
8     server: 'homedecor.citxhadnw1lu.us-east-2.rds.amazonaws.com',
9     port: 1433,
10    database: 'homedecor'
11  },function(error){
12    if (error) {
13      console.log("Error in sql connection");
14    }
15  }
16  );
17  let temp= "Select facility_code from users where Email = '"+ event.key+"' and isActive = '1'";
18  const req = new sql.Request();
19  req.query(temp,function(error, results1, fields) {
20    let f = results1["recordset"][0].facility_code;
21    console.log(f);
22    let q ="SELECT f.* FROM Facility f where Facility_code = '"+f+"'";
23    console.log(q);
24    req.query(q, function(error, results, fields) {
25      context.succeed(results["recordset"]);
26      sql.close();
27    });
28  });
29  });
30 }
```

Resources

Actions ▾

Method Execution

/facility - GET - Method Test

/

/facility

GET

/getFacility

ANY

Make a test call to your method with the provided input

Path

No path parameters exist for this resource. You can define path parameters by using the syntax **{myPathParam}** in a resource path.

Query Strings

key

sg@gmail.com

Headers

No header parameters exist for this method. You can add them via Method Request.

Request: /facility?key=sg@gmail.com

Status: 200

Latency: 347 ms

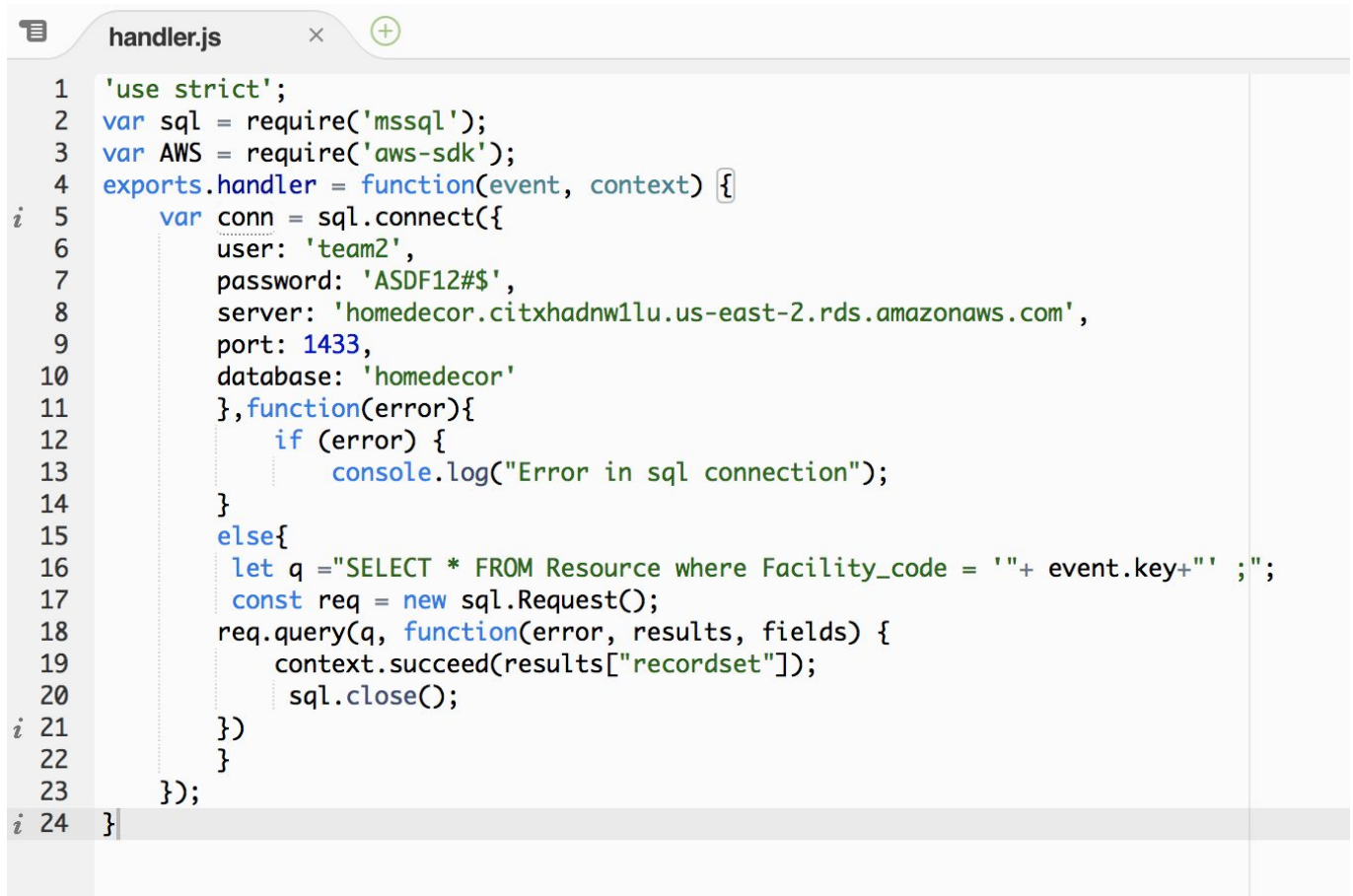
Response Body

```
[
  {
    "Facility_code": 1,
    "Facility_description": "A Facility at ERB",
    "Facility_name": "ERB",
    "isActive": true
  }
]
```

Response Headers

Get Resource within a facility:**getResources within facility: Read facility_code from the page**<https://7aba3qlnxa.execute-api.us-east-2.amazonaws.com/test/resource?key=5>Parameters:

```
{  
  "key": 5  
}
```



```
handler.js  
1  'use strict';  
2  var sql = require('mssql');  
3  var AWS = require('aws-sdk');  
4  exports.handler = function(event, context) {  
5      var conn = sql.connect({  
6          user: 'team2',  
7          password: 'ASDF12#$',  
8          server: 'homedecor.citxhadnw1lu.us-east-2.rds.amazonaws.com',  
9          port: 1433,  
10         database: 'homedecor'  
11     }, function(error) {  
12         if (error) {  
13             console.log("Error in sql connection");  
14         }  
15     } else {  
16         let q = "SELECT * FROM Resource where Facility_code = '" + event.key + "'";  
17         const req = new sql.Request();  
18         req.query(q, function(error, results, fields) {  
19             context.succeed(results["recordset"]);  
20             sql.close();  
21         })  
22     }  
23 });  
24 }
```

Resources

Actions

/

/resource

GET

No path parameters exist for this resource. You can define path parameters by using the syntax **{myPathParam}** in a resource path.

Query Strings

key

5

Headers

No header parameters exist for this method. You can add them via Method Request.

Stage Variables

No [stage variables](#) exist for this method.

Request Body

Request Body is not supported for GET methods.

Test

Status: 200

Latency: 1130 ms

Response Body

```
[
  {
    "Resource_code": 6,
    "Color": null,
    "Facility_code": 5,
    "Quantity": 100,
    "Resource_description": null,
    "Resource_name": "test",
    "Size": null,
    "isActive": false
  },
  {
    "Resource_code": 7,
    "Color": null,
    "Facility_code": 5,
    "Quantity": 5,
    "Resource_description": null,
    "Resource_name": "Mug",
    "Size": null,
    "isActive": false
  }
]
```

Edit a selected resource - Lambda and API Gateway:**Edit Resource:**

https://8ryx3f8860.execute-api.us-east-2.amazonaws.com/test/editresource?Quantity=10&Resource_name=test&Resource_description=yay&Resource_code=2

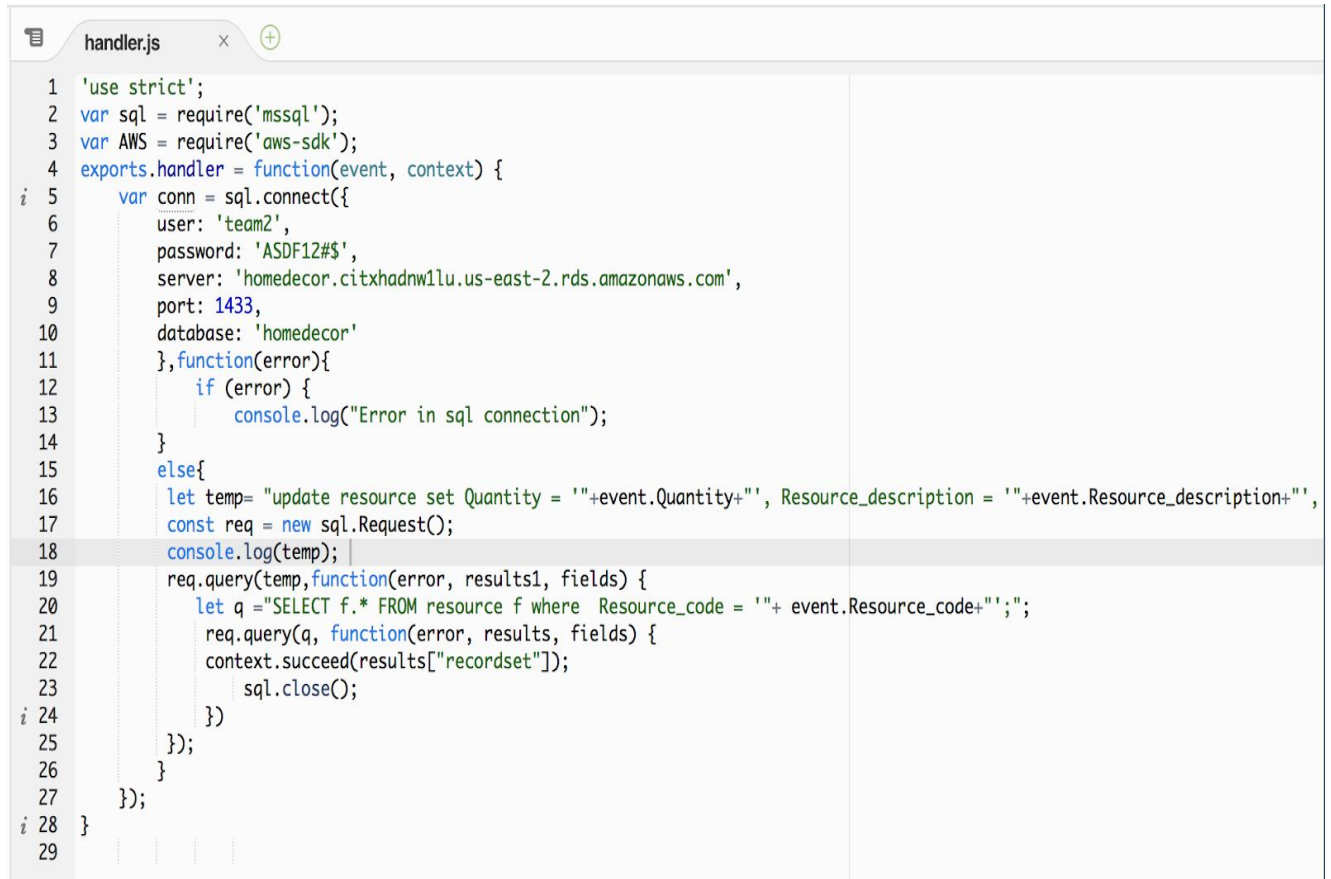
Parameters:

"Quantity": 333,

"Resource_code": 2 (this is an input from app. Only existing will be showed up on app and hence here),

"Resource_name": "New Name",

"Resource_description": "Some Description."



```
1 'use strict';
2 var sql = require('mssql');
3 var AWS = require('aws-sdk');
4 exports.handler = function(event, context) {
5     var conn = sql.connect({
6         user: 'team2',
7         password: 'ASDF12#$',
8         server: 'homedecor.citxhadnw1lu.us-east-2.rds.amazonaws.com',
9         port: 1433,
10        database: 'homedecor'
11    }, function(error) {
12        if (error) {
13            console.log("Error in sql connection");
14        }
15        else {
16            let temp= "update resource set Quantity = '"+event.Quantity+"', Resource_description = '"+event.Resource_description+"',
17            const req = new sql.Request();
18            console.log(temp);
19            req.query(temp, function(error, results1, fields) {
20                let q = "SELECT f.* FROM resource f where Resource_code = '"+ event.Resource_code+"";
21                req.query(q, function(error, results, fields) {
22                    context.succeed(results["recordset"]);
23                    sql.close();
24                })
25            });
26        }
27    });
28 }
29
```


APIs > editResource (8ryx3f8860) > Resources > /editresource (2kfmgj) > GET

Show all hints ?

Resources

Actions

/

/editresource

GET

Make a test call to your method with the provided input

Path

No path parameters exist for this resource. You can define path parameters by using the syntax **{myPathParam}** in a resource path.

Query Strings

Resource_description

new

Quantity

100

Resource_code

2

Resource_name

test new name

Headers

No header parameters exist for this method. You can add them via Method Request.

Request: /editresource?
Resource_description=new&Quantity=100&Resource_code=2&Resource_name=test new name

Status: 200

Latency: 424 ms

Response Body

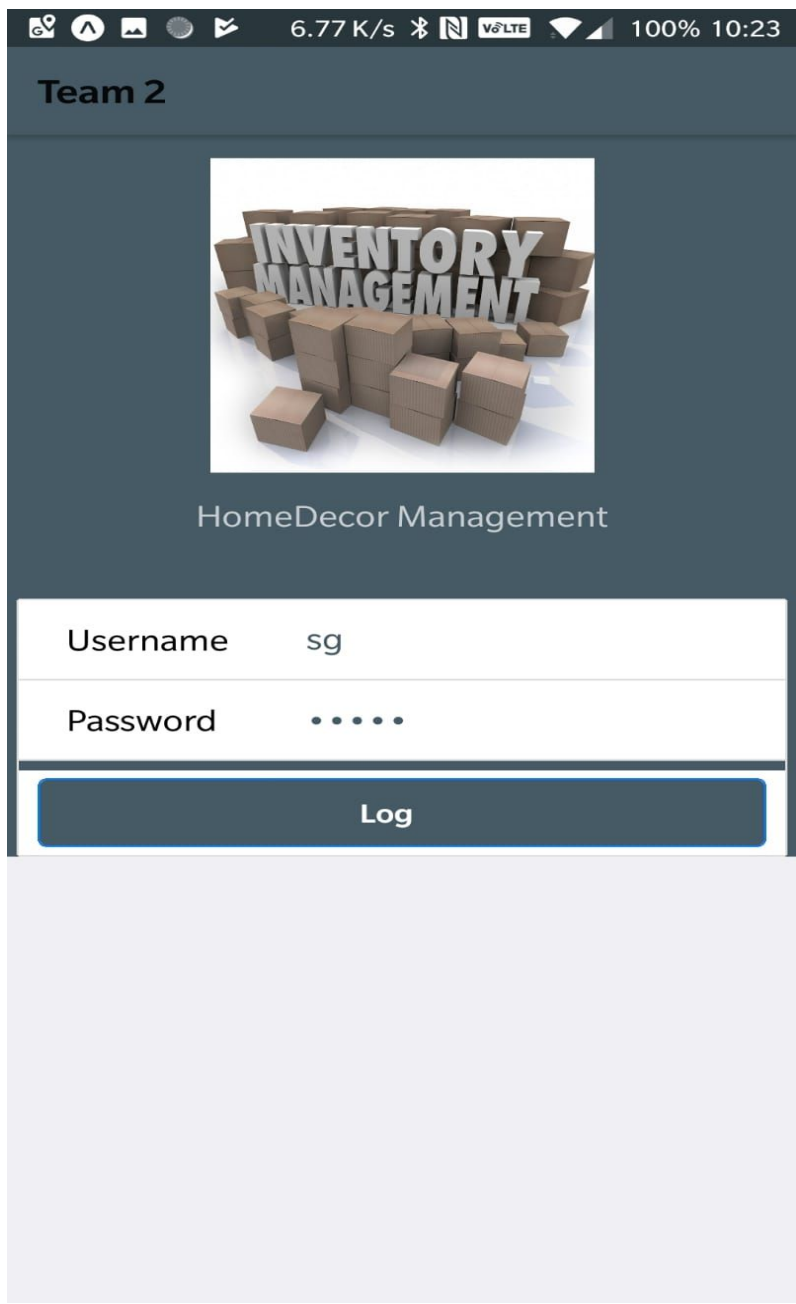
```
[
  {
    "Resource_code": 2,
    "Color": null,
    "Facility_code": 2,
    "Quantity": 100,
    "Resource_description": "new",
    "Resource_name": "test new name",
    "Size": null,
    "isActive": false
  }
]
```

Response Headers

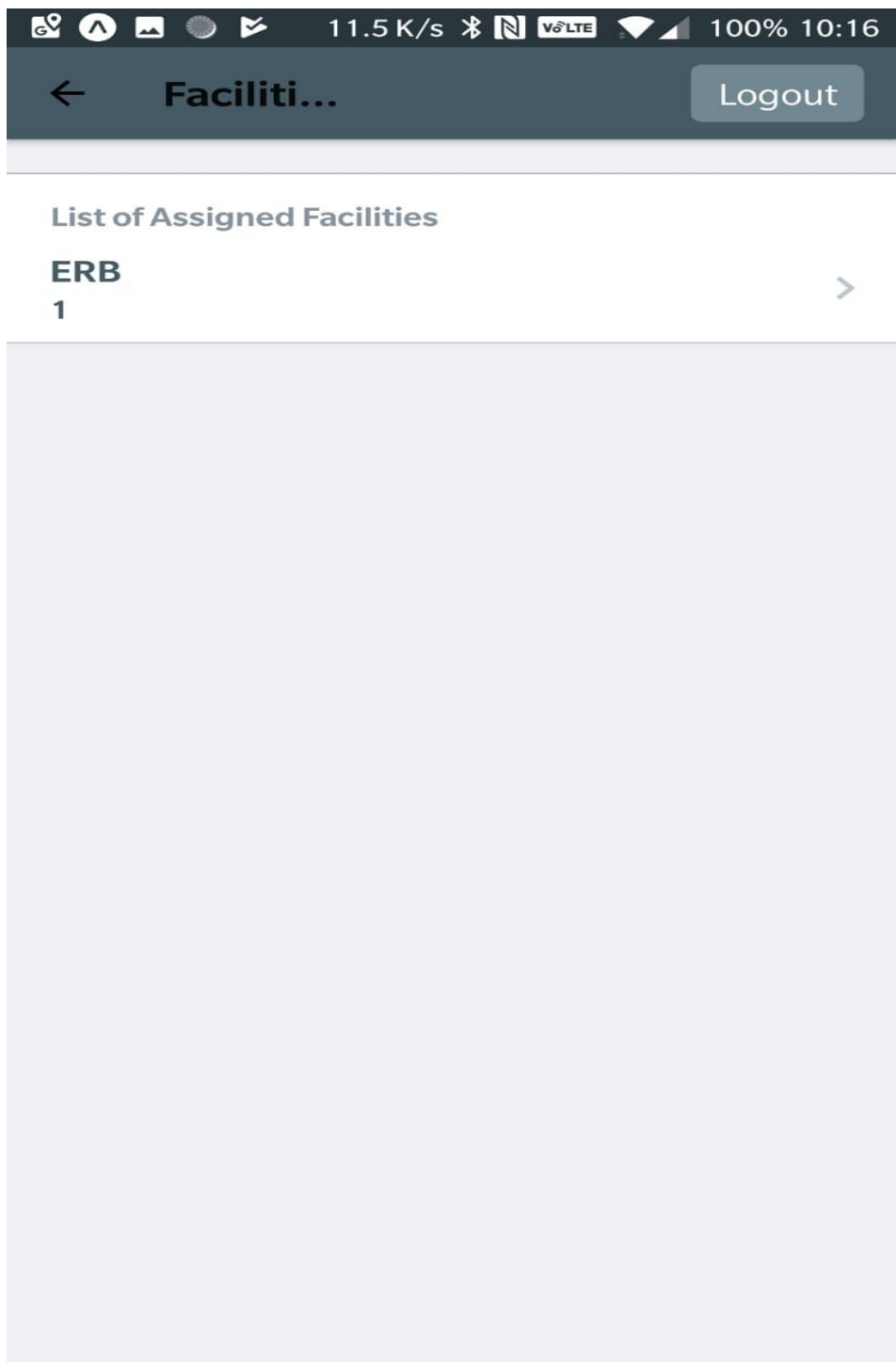
```
{"X-Amzn-Trace-Id": "sampled=0;root=1-5af607a8-ac1b97f5507468f9187e0b86", "Content-Type": "application/json"}
```

Log

Mobile App Screenshots:
Login:



View Facility:



View Resources within facility:



List Of Assigned Resources

<div>Chair</div> <div>Description: Yes Color: brown Size: small Quantity: 5 Resource code: 4</div> <div>Edit</div>
<div>rtytuytre</div> <div>Description: null Color: null Size: null Quantity: 5 Resource code: 8</div> <div>Edit</div>
<div>adfg</div> <div>Description: null Color: null Size: null Quantity: 3 Resource code: 13</div> <div></div>

Edit Resource:

12.0 K/s

V6/LTE

100%

10:16

←

E...

Logout

Edit Resource

Name	Chair
Resource Code	4
Description	Yes
Quantity	5

Save

