**Zuul Authentication/Authorization Example with React UI App**

Simple application to demonstrate zuul config with auth with React UI application

**Modules:**

1. **microservice-one**

Contains 5 simple services:

* /adminAccess –service can be accessed only by user with admin role
* /userAccess – service can be accessed by user and admin
* /guest – public access – no auth
* /testOne – only after auth and token generation validation, access is provided
* /testTwo- only after auth and token generation validation, access is provided

1. **zuul-auth-proxy-gateway**

Serves two purposes:

1. **Authentication:**

* Contains one service **/login** to do authentication and generates JWT token
* The client POST {username, password} to /login.
* This service will authenticate the username and password via Spring Security, generate the token, and issue it to client.

1. **Proxy with Authorization:**

* Define zuul routes to microservice-one
* Verify JWT token
* Define role based auth via spring security

1. **security-react-demo-client**

* React UI application which is running on port 3000.

**Running applications:**

* Run individual spring boot application modules – **microservice-one** and **zuul-auth-proxy-gateway** running on port 8082 and 8090 respectively.
* Start the react UI application as well using npm start
* **Admin creds**: admin/admin; **User creds**: user/user -Login using these creds.

**UI:**



