# React

AUTHENTICATION AND AUTHORIZATION

#### What to Learn

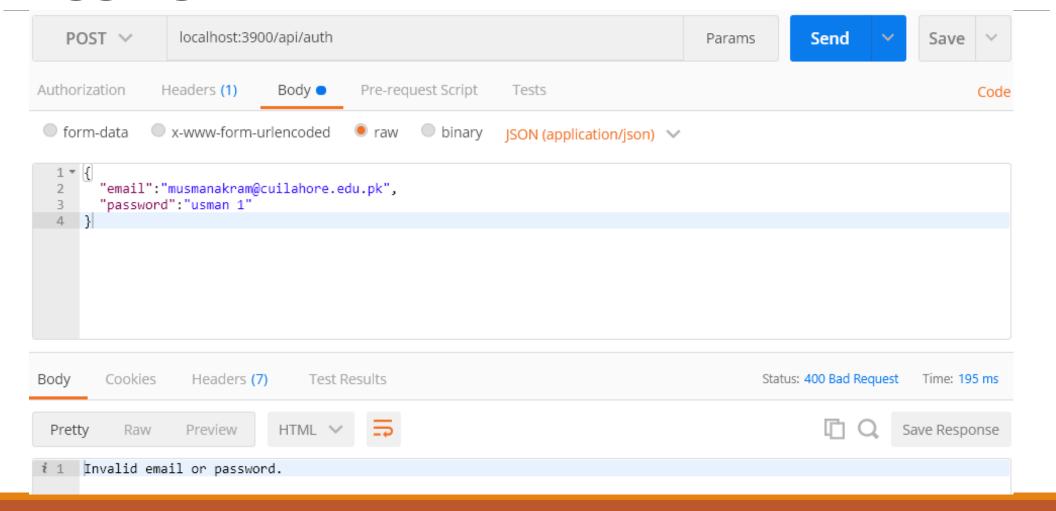
**JSON Web Tokens** 

Calling Protected API

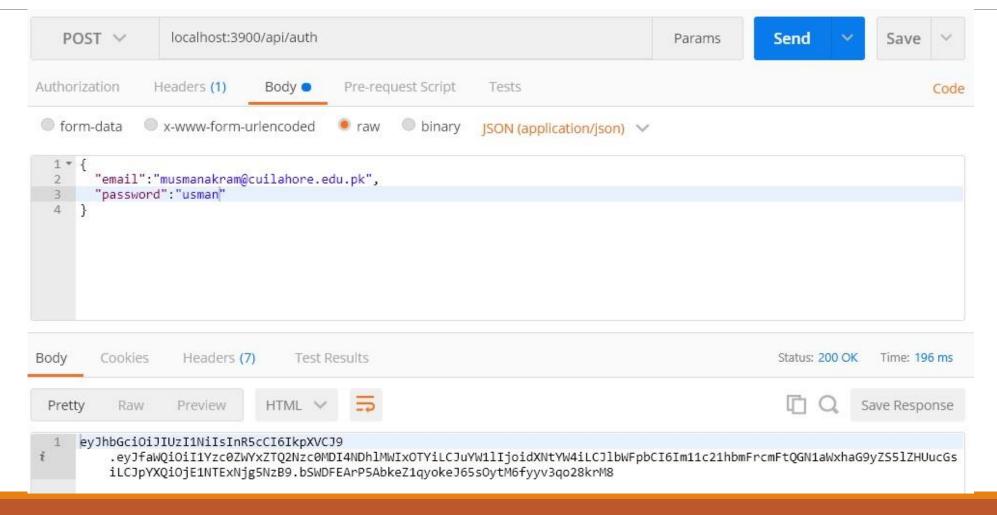
Showing/Hiding Elements for certain roles

**Protected Routes** 

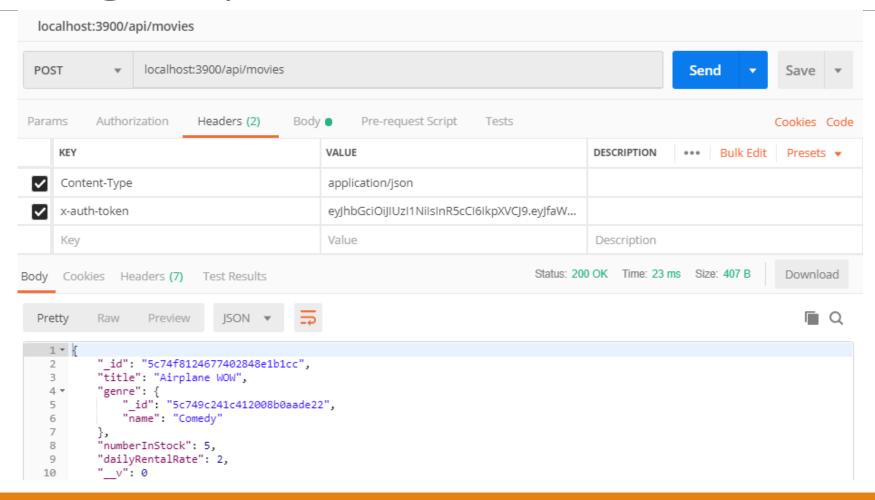
# Logging In Fail



### Logging In Success



# Sending Request with token



#### Logging in React

```
export async function login(email, password) {
 const { data: jwt } = await
http.post(apiEndpoint, { email, password });
 localStorage.setItem(tokenKey, jwt);
//axios to post email and password
//Rename data (jwt token) to jwt and store in
//local storage
```

# Login Form Submit

```
doSubmit = async () => {
try {
  const { data } = this.state; await auth.login(data.username, data.password);
  const { state } = this.props.location;
 window.location = state ? state.from.pathname : "/";
 } catch (ex) {
  if (ex.response && ex.response.status === 400) {
  //Handle Errors
```

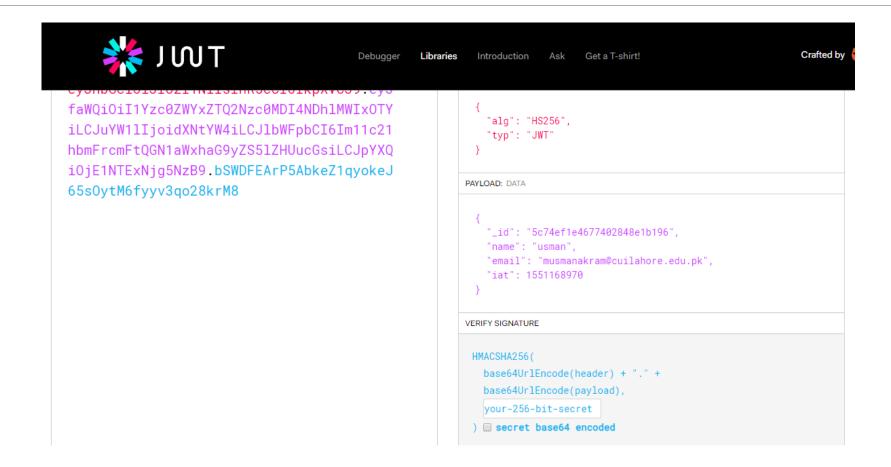
# Logging in On Registration Modify Backend API to send token

```
const token = user.generateAuthToken();
res
.header("x-auth-token", token)
.header("access-control-expose-headers", "x-auth-token")
.send(_.pick(user, ["_id", "name", "email"]));
```

### Logging in On Registration

```
const response = await
userService.register(this.state.data);
localStorage.setItem("token", response.headers["x-auth-
token"]);
window.location = "/";
```

#### Jwt.io



# import jwtDecode from "jwt-decode";

```
export function getCurrentUser() {
try {
const jwt = localStorage.getItem(tokenKey);
 return jwtDecode(jwt);
} catch (ex) {
 return null;
```

# Logging Out

```
export function logout() {
  localStorage.removeItem(tokenKey);
}
//Nothing to do on server
```

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### Calling protected Routes

```
axios.defaults.headers.common["x-auth-
token"] = localStorage.getItem("token");
```

//Set x-auth token for each request

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#### Authoization

```
Set isAdmin property in db and set it to user object
Use it in React to hide/show components
Something like this
const user = auth.getCurrentUser();
if (user && user.isAdmin)
this.columns.push(this.deleteColumn);
```

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