



WEB ENGINEERING

BENUTZERAUTHENTIFIZIERUNG

- Authentifizierung vs. Autorisierung
- Code
- Walkthrough

AUTHENTIFIZIERUNG VS. AUTORISIERUNG

AUTHENTICATION

Anonymous User:

Hey server, please give me info ...

Server:

Who are you?

Anonymous User:

I am Mike, my password is ...

Server:

I know a Mike with that password, I believe you. Welcome Mike!

AUTHORIZATION

Mike:

Great! Now give me that piece of info

Server:

Just a sec...

I'm sorry Mike, I can't. That info is for VIPs only. You are no VIP.

AUTHENTIFIZIERUNG

ABLAUF

CLIENT

SERVER

- 1 User types email & password into login form

Login

Email address

n.meseth@hs-osnabrueck.de

We'll never share your email with anyone else.

Password

.....

Login

- 2 The login button triggers the login process

Welcome n.meseth@hs-osnabrueck.de

We are happy you're back.

email
password

- 3 The server receives the login request with email & password

- 4 The server checks the user directory for a match

user

- 5 If the user is known, the server notifies the web app that the user is now logged in and sends the user profile.



CODE

CODE

USER LOGIN AND LOGOUT

```
var auth = firebase.auth();
```

```
// Login
```

```
var user = await auth.signInWithEmailAndPassword(email, password);
```

```
// Logout
```

```
auth.signOut()
```

CODE

STATE CHANGES

```
firebase.auth().onAuthStateChanged(doSomething);
```

```
function doSomething(user) {  
  
    if(user) {  
        // A new user signed in  
    }  
    else {  
        // A user signed out  
    }  
}
```