

# Step 5: Integrate Okta Sign-In Widget

File: angular.json

```
...
"styles": [
  "src/styles.css",
  "node_modules/bootstrap/dist/css/bootstrap.min.css",
  "node_modules/@fortawesome/fontawesome-free/css/all.min.css",
  "node_modules/@okta/okta-signin-widget/dist/css/okta-sign-in.min.css"
],
...
...
```

add reference for okta sign in css

# Step 5: Integrate Okta Sign-In Widget

```
$ ng generate component components/login
```

File: login.component.html

```
<!-- Container to inject the Okta Sign-In Widget -->
<div class="pt-5">
  <div id="okta-sign-in-widget" class="pt-5"></div>
</div>
```

File: login.component.ts

```
import { Component, OnInit } from '@angular/core';
import { OktaAuthService } from '@okta(okta-angular';
import * as OktaSignIn from '@okta(okta-signin-widget';

import myAppConfig from '../../../../../config/my-app-config';

@Component({
  selector: 'app-login',
  templateUrl: './login.component.html',
  styleUrls: ['./login.component.css']
})
export class LoginComponent implements OnInit {

  oktaSignIn: any;

  constructor(private oktaAuthService: OktaAuthService) {

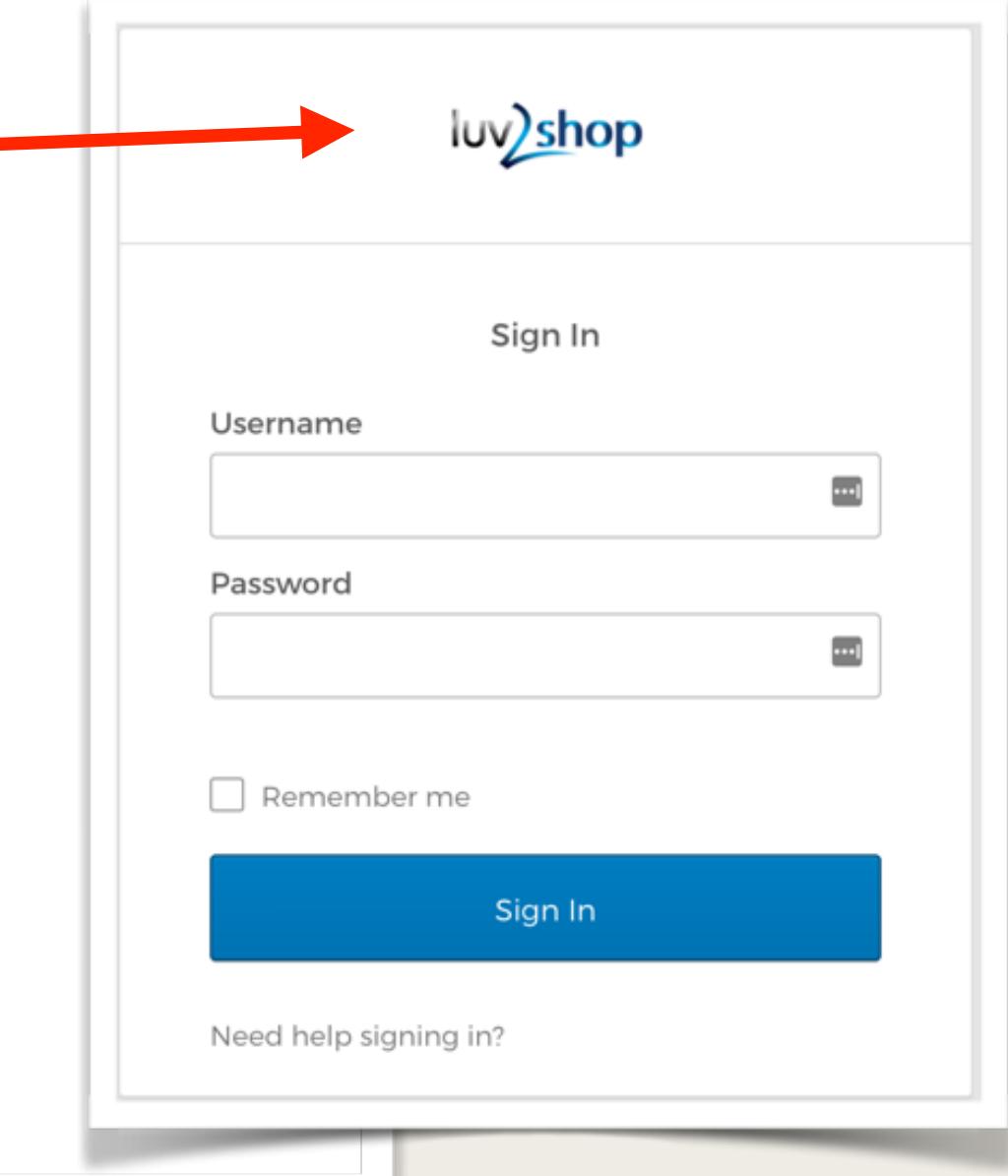
    this.oktaSignIn = new OktaSignIn({
      logo:'assets/images/logo.png',
      baseUrl: myAppConfig.oidc.issuer.split('/oauth2')[0],
      clientId: myAppConfig.oidc.clientId,
      redirectUri: myAppConfig.oidc.redirectUri,
      authParams: {
        pkce: true,
        issuer: myAppConfig.oidc.issuer,
        scopes: myAppConfig.oidc.scopes
      }
    })
  }
}
```

Proof Key for Code Exchange

File: my-app-config.ts

```
export default {

  oidc: {
    clientId: '0oa2agnulNvI7JykI5d6',
    issuer: 'https://dev-5389590.okta.com/oauth2/default',
    redirectUri: 'http://localhost:4200/login/callback',
    scopes: ['openid', 'profile', 'email'],
  }
}
```



# Authorization Code Flow with PKCE

- PKCE: Proof Key for Code Exchange
- Recommended approach for controlling access between app and auth server
- Protects against Authorization Code Interception attacks
- Introduces concept of dynamic secrets
- Implemented with a code verifier, code challenge and method

<http://www.luv2code.com/okta-pkce>

```

import { Component, OnInit } from '@angular/core';
import { OktaAuthService } from '@okta(okta-angular';
import * as OktaSignIn from '@okta(okta-signin-widget';

import myAppConfig from '.../.../config/my-app-config';

@Component({
  selector: 'app-login',
  templateUrl: './login.component.html',
  styleUrls: ['./login.component.css']
})
export class LoginComponent implements OnInit {

  oktaSignIn: any;

  constructor(private oktaAuthService: OktaAuthService) {

    this.oktaSignIn = new OktaSignIn({
      logo:'assets/images/logo.png',
      baseUrl: myAppConfig.oidc.issuer.split('/oauth2')[0],
      clientId: myAppConfig.oidc.clientId,
      redirectUri: myAppConfig.oidc.redirectUri,
      authParams: {
        pkce: true,
        issuer: myAppConfig.oidc.issuer,
        scopes: myAppConfig.oidc.scopes
      }
    });
  }

  ...
}

```



```

export default {

  oidc: {
    clientId: '0oa2agnulNvI7JykI5d6',
    issuer: 'https://dev-5389590.okta.com/oauth2/default',
    redirectUri: 'http://localhost:4200/login/callback',
    scopes: ['openid', 'profile', 'email'],
  }
}

```

```

import { Component, OnInit } from '@angular/core';
import { OktaAuthService } from '@okta(okta-angular';
import * as OktaSignIn from '@okta(okta-signin-widget';

import myAppConfig from '.../.../config/my-app-config';

@Component({
  selector: 'app-login',
  templateUrl: './login.component.html',
  styleUrls: ['./login.component.css']
})
export class LoginComponent implements OnInit {

  oktaSignIn: any;

  ...

  ngOnInit() {
    this.oktaSignIn.remove();

    this.oktaSignIn.renderEl({
      el: '#okta-sign-in-widget', //this name should be same as div tag id in login.component.html
      (response) => {
        if (response.status === 'SUCCESS') {
          this.oktaAuthService.signInWithRedirect();
        }
      },
      (error) => {
        throw error;
      }
    );
  }
}

```

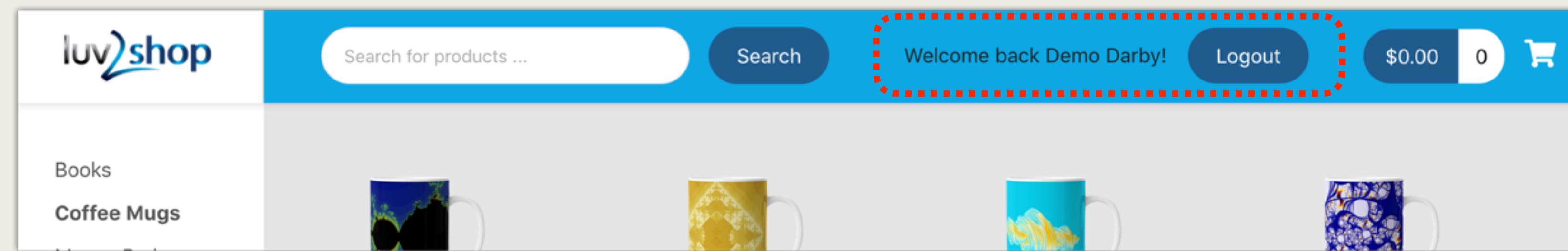
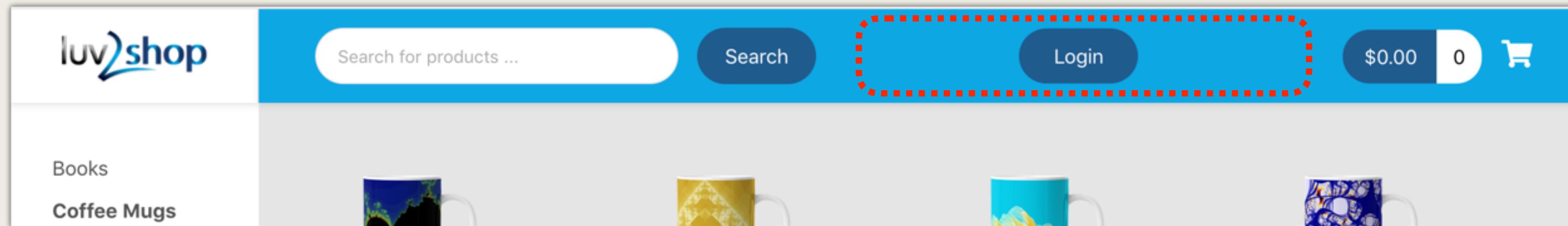
## Render element with given id

```

<!-- Container to inject the Okta Sign-In Widget -->
<div class="pt-5">
  <div id="okta-sign-in-widget" class="pt-5"></div>
</div>

```

# Step 6: Develop login status component for login/logout buttons



# Step 6: Develop login status component for login/logout buttons

```
$ ng generate component components/LoginStatus
```

# Step 6: Develop login status component for login/logout buttons

File: login-status.component.ts

```
import { Component, OnInit } from '@angular/core';
import { OktaAuthService } from '@okta(okta-angular';

@Component({
  selector: 'app-login-status',
  templateUrl: './login-status.component.html',
  styleUrls: ['./login-status.component.css']
})
export class LoginStatusComponent implements OnInit {

  isAuthenticated: boolean = false;
  userFullName: string;

  constructor(private oktaAuthService: OktaAuthService) {}

  ngOnInit() {
    // Subscribe to authentication state changes
    this.oktaAuthService.$authenticationState.subscribe(
      (result) => {
        this.isAuthenticated = result;
        this.getUserDetails(); →
      }
    );
  }
}
```

```
getUserDetails() {
  if (this.isAuthenticated) {

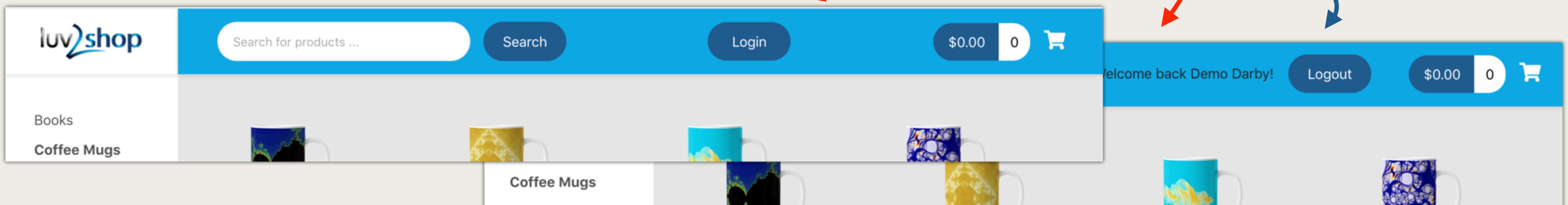
    // Fetch the logged in user details (user's claims)
    //
    // user full name is exposed as a property name
    this.oktaAuthService.getUser().then(
      res => {
        this.userFullName = res.name;
      }
    )
  }
}

logout() {
  // Terminates the session with Okta and removes current tokens.
  this.oktaAuthService.signOut();
}
```

# Step 6: Develop login status component for login/logout buttons

File: login-status.component.html

```
<div class="login-status-header">  
  
  <div *ngIf="isAuthenticated && userFullName" class="login-status-user-info">  
    Welcome back {{ userFullName }}! ←  
  </div>  
  
  <button *ngIf="!isAuthenticated" routerLink="/login" class="security-btn">Login</button> ←  
  
  <button *ngIf="isAuthenticated" (click)="logout()" class="security-btn">Logout</button> ←  
  
</div>
```



# Step 6: Develop login status component for login/logout buttons

File: app.component.html

```
<!-- HEADER DESKTOP-->
<header class="header-desktop">
  <div class="section-content section-content-p30">
    <div class="container-fluid">
      <div class="header-wrap">
        <app-search></app-search>
        <app-login-status></app-login-status>
        <app-cart-status></app-cart-status>
      </div>
      <div class="account-wrap"></div>
    </div>
  </div>
</header>
<!-- END HEADER DESKTOP-->
```

The screenshot shows the desktop header of the luv2shop application. It includes a logo, a search bar with placeholder text "Search for products ...", a "Search" button, a welcome message "Welcome back Demo Darby!", a "Logout" button, and a cart summary showing "\$0.00" and "0" items. Red arrows point from the corresponding code blocks in the HTML file to each of these header components.

Add our new  
login-status-component  
to header section

# Step 7: Update App Module configs to connect routes

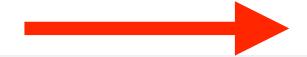
File: app.module.ts

```
...
import {
  OKTA_CONFIG,
  OktaAuthModule,
  OktaCallbackComponent
} from '@okta/okta-angular';

import myAppConfig from './config/my-app-config';

const oktaConfig = Object.assign({
  onAuthRequired: (injector) => {
    const router = injector.get(Router);

    // Redirect the user to your custom login page
    router.navigate(['/login']);
  }
}, myAppConfig.oidc);
...
```



```
const routes: Routes = [
  {path: 'login/callback', component: OktaCallbackComponent },
  {path: 'login', component: LoginComponent },
  ...
]
```

Once the user is authenticated, they are redirected to your app

Normally you would need to parse the response and store the OAuth+OIDC tokens

The OktaCallbackComponent does this for you :-)

# Step 7: Update App Module configs to connect routes

File: app.module.ts

```
...
imports: [
  RouterModule.forRoot(routes),
  BrowserModule,
  HttpClientModule,
  NgbModule,
  ReactiveFormsModule,
  OktaAuthModule ←
],
providers: [ProductService, { provide: OKTA_CONFIG, useValue: oktaConfig }],
...

```

# Documentation for Okta Components

- Okta Sign-In Widget
  - <https://github.com/okta/okta-signin-widget>
- Okta Angular SDK
  - <https://github.com/okta/okta-angular>