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r/KeyCloak



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**r/KeyCloak** • 4 yr. ago
Coalandflame

Creating my own fully functional login page?

I want to use keycloak to manage identities of users in my webapp. Keycloak offers a lot of neat features like SSO and PW Reset. I want to use these features. BUT I also want to have my OWN custom login page.

I've got the username/password style login working and integrated with keycloak via APIs, however is there APIs to get the SSO and PW resets working, so I can simply build my own login page as opposed to use keycloaks provided one?



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**RsCrag** • 4y ago • Edited 4y ago

Don't. If the users are sending their passwords to your web app, you are violating security.

The whole reason to use a SSO is so that only a single app needs to know the password or other crypto secret.

Redirect to Keycloak and use OAuth to authenticate.

Or are you just talking about changing the theme on Keycloak itself?



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Reply

**chrislonardo** • 4y ago

The Keycloak Admin API supports user creation, password reset, and anything else you might need. I use this by invoking it with a service account on my backend, which has been set up with the requisite permissions. That's in a different client app (though the same realm) as the frontend, for security purposes- web frontends, as clients, must be configured as "public," while the backend can be locked down further.

[+ Create](#)**dismantlemars** • 4y ago

I'd recommend writing a keycloak theme and using the 3-legged flows (implicit and auth code). ROPC (username and password grant) isn't really recommended for new integrations.



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**Coalandflame** OP • 4y ago

Is that to say that KeyCloak doesn't expose APIs to get PW resets and SSO done?

There's a lot of custom styling UX related things on the client app that I really don't want to duplicate in keycloak's theme customisation.



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**dismantlemars** • 4y ago

I think there should be user facing APIs for things like changing passwords - I haven't worked with those personally, but you should be able to change your password from the Keycloak account console and record the network request it makes (this is a useful technique in general with Keycloak as there's often subtleties in the APIs that aren't always clear from the docs). You might be able to wrap up the Keycloak admin API to provide some other functionality, but you'll probably end up duplicating a bit of Keycloak.

If you're wanting to support SSO though, I don't think you can really avoid the 3 legged flows. If you limited yourself to only supporting SSO using LDAP, you might be able to get away without it, but for OIDC or SAML SSO providers, you need to redirect the user to a Keycloak page. One of the principles of these SSO approaches is that users never enter their credentials into your app, instead they're redirected to their own Identity Provider (GSuite, Okta, OneLogin etc), enter their credentials there, then get redirected back to Keycloak.

You could potentially use the ROPC grant & calls to user facing APIs for first party users, and give SSO users a different entry point that sends them through a Keycloak redirect flow. I wouldn't recommend this though, as you end up doing all of the same work you'd need to do to support 3-legged login for all users (integrating the flows into your app, theming keycloak), while also maintaining your username/password separate entry point and keeping things like styling in sync between both.

If you did decide to go down the theming route, the [Gov.uk](#) theme is a nice starting point that's a little more complete than the other sample themes I tried.



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