Customising Redmine and Superset to Allow Automatic Login with Gmail through Keycloak

Task Description:

Here are the steps to integrate Redmine and Apache Superset with Keycloak for easy Gmail login:

- 1. Begin by setting up Keycloak. Create a realm and set up Google as an identity provider using OAuth credentials from the Google API Console.
- 2. Then, create separate clients within Keycloak for Redmine and Superset, making sure to specify the correct redirect URIs.
- 3. Install the necessary OAuth plugin in Redmine, set it up with Keycloak client details, and update Redmine's configuration file.
- 4. For Superset, install the required Python packages and update the superset config.py file to include OIDC configuration for Keycloak.
- 5. Finally, restart both Redmine and Superset servers to apply the changes.

To verify the integration, access Redmine and Superset using Google credentials, and check that user information is correctly populated.

Table of Content

Scenario 1 : Users Access Redmine Login Page	3
Scenario 2: Users Authenticate with Keycloak and Google OAuth in Redmine	4
Scenario 3 : User views assigned Project in Redmine	. 6
Scenario 4: User accesses Supersert application	7
Scenario 5: User authenticates with Keycloak and Google OAuth in Supersert	8
Scenario 6: Handling Authentication Errors for Unknown Users in Redmine	9
Scenario 7: Handling Authentication Errors for Unknown Users in Superset	10
Scenario 8 : User Attempts to Access a Locked Account	11
Scenario 9: Test SSO Integration with Keycloak for Redmine and Superset	12

Scenario 1 : Users Access Redmine Login Page Given: The user wants to access Redmine When: The user navigates to the URL "127.0.0.1:3000" Then: The user should see the Redmine login page or dashboard Result: Passed

Scenario 2 : Users Authenticate with Keycloak and Google OAuth in Redmine

Given: The user navigates to the Output: Redmine login page When: The user selects "Continue with Keycloak" And: The user selects the Google authentication option in Keycloak And: The user login with the email "manish_choudhary@fosteringlinu x.com" Then: The user successfully logs in to Redmine keycloak wants additional **Result: Passed**

Scenario 3: User views assigned Project in Redmine Given: A user account exists in the system And: The user is logged into their account When: The user navigates to their account profile Then: The user should be able to view all Project assigned to them Result: Passed

Scenario 4 : User accesses Supe	rset application	
Given: The user wants to access Superset		
	Settings - Welcome to Apache Superset	Login
When: The user navigates to the URL "127.0.0.1:8088"		
Then: The user should see the Superset login page		
Result: Passed		

Scenario 5 : User authenticates with Keycloak and Google OAuth in Superset Given: The user navigates to the Superset login page When: The user selects "Login" Then: The user successfully logged in to Superset Result: Passed

Scenario 6 : Handling Authentication Errors for Unknown Users in Redmine

Given: The user navigates to the Output: Redmine login page

When: The user selects "Continue with Keycloak"

And: The user selects the Google authentication option in Keycloak

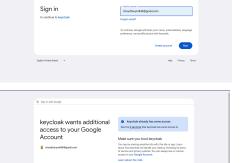
And: The user logs in with the email "choudharym845@gmail.com"

Then: The user sees an error indicating that the user does not exist in Redmine

Result: Passed









Scenario 7 : Handling Authentication Errors for Unknown Users in Superset

Given: The user navigates to the Superset login page

When: The user selects "Login"

And: The user selects the Google authentication option in Keycloak

And: The user logs in with the email "choudharym845@gmail.com"

Then: The user sees an error indicating that the user does not exist in Superset

Result: Passed

Output:











Scenario 8 : User Attempts to Access a Locked Account		
Given: The user has an account in the Redmine	Output: Redmine	
When: The user attempts to log in to their account	The account is boded. The Legisland Continue with Keynland. Continue with Keynland.	
Then: The user should not be able to access any Redmine functionalities		
And: The user's account is locked		
Result: Passed		

Scenario 9 : Both Redmine and Superset are configured to use Keycloak for SSO

Given: The user logs in to Redmine with Keycloak authentication

When: The user logs in to Redmine with Google authentication

And: The user tries to log in to Redmine with the email "manish_choudhary@fosteringlinu x.com"

Then: The user logs in successfully if the user exists in Redmine

