Feature: Customizing Redmine and Superset for automatic login with Gmail through Keycloak

Background:

```
Given Keycloak is configured with Google Identity Provider
And Redmine is configured to use Keycloak for authentication
And Superset is configured to use Keycloak for authentication
```

Task Cases for Redmine:

1. **Configure Redmine for Keycloak Authentication**

```
Scenario: Configure Redmine for Keycloak authentication
  Given Redmine is running
  When the admin configures Redmine with Keycloak SSO settings
  Then Redmine is set up to use Keycloak for authentication
```

2. **Configure Keycloak for Redmine Client**

```
Scenario: Configure Keycloak for Redmine client
  Given Keycloak is running
  When the admin creates a client in Keycloak for Redmine
  Then the client is configured with proper redirect URIs and
credentials
```

3. **Setup Google Identity Provider in Keycloak**

```
Scenario: Setup Google Identity Provider in Keycloak
  Given Keycloak is running
  When the admin configures Google as an identity provider in Keycloak
  Then Google is set up as an identity provider in Keycloak
```

4. **Enable Automatic Login in Redmine**

```
Scenario: Enable automatic login in Redmine
  Given Redmine is configured with Keycloak
```

```
  When the user navigates to the Redmine login page
  Then the "Login with Google" button is displayed
```

5. **Redirect from Redmine to Google Login**

```
Scenario: Redirect from Redmine to Google login
  Given the user clicks "Login with Google" on the Redmine login page
  When the user authorizes access to their Google account
  Then the user is redirected to Keycloak
```

6. **Authenticate User with Google Account for Redmine**

```
Scenario: Authenticate user with Google account for Redmine
  Given the user authorizes Google access
  When Keycloak authenticates the user
  Then the user is logged into Redmine automatically
```

7. **Sync User Information from Google to Redmine**

```
Scenario: Sync user information from Google to Redmine
  Given the user logs in via Google
  When Keycloak provides user info to Redmine
  Then Redmine updates or creates the user profile with Google info
```

8. **Handle Failed Login Attempt in Redmine**

```
Scenario: Handle failed login attempt in Redmine
  Given the user clicks "Login with Google"
  When the Google authentication fails
  Then the user sees an error message on the Redmine login page
```

9. **Log Out User from Redmine**

```
Scenario: Log out user from Redmine
  Given the user is logged into Redmine
  When the user logs out
  Then the user is redirected to the Keycloak logout page
```

10. **Verify Redmine User Session**

```
Scenario: Verify Redmine user session
  Given the user is logged into Redmine
  When the user navigates to any Redmine page
  Then the user session is maintained
```

Task Cases for Superset:

11. **Configure Superset for Keycloak Authentication**

```
Scenario: Configure Superset for Keycloak authentication
  Given Superset is running
  When the admin configures Superset with Keycloak SSO settings
  Then Superset is set up to use Keycloak for authentication
```

12. **Configure Keycloak for Superset Client**

```
Scenario: Configure Keycloak for Superset client
  Given Keycloak is running
  When the admin creates a client in Keycloak for Superset
  Then the client is configured with proper redirect URIs and
credentials
```

13. **Enable Automatic Login in Superset**

```
Scenario: Enable automatic login in Superset
  Given Superset is configured with Keycloak
  When the user navigates to the Superset login page
  Then the "Login with Google" button is displayed
```

14. **Redirect from Superset to Google Login**

```
Scenario: Redirect from Superset to Google login
  Given the user clicks "Login with Google" on the Superset login page
  When the user authorizes access to their Google account
  Then the user is redirected to Keycloak
```

15. **Authenticate User with Google Account for Superset**

```
Scenario: Authenticate user with Google account for Superset
  Given the user authorizes Google access
  When Keycloak authenticates the user
  Then the user is logged into Superset automatically
```

16. **Sync User Information from Google to Superset**

```
Scenario: Sync user information from Google to Superset
  Given the user logs in via Google
  When Keycloak provides user info to Superset
  Then Superset updates or creates the user profile with Google info
```

17. **Handle Failed Login Attempt in Superset**

```
Scenario: Handle failed login attempt in Superset
  Given the user clicks "Login with Google"
  When the Google authentication fails
  Then the user sees an error message on the Superset login page
```

18. **Log Out User from Superset**

```
Scenario: Log out user from Superset
  Given the user is logged into Superset
  When the user logs out
  Then the user is redirected to the Keycloak logout page
```

19. **Verify Superset User Session**

```
Scenario: Verify Superset user session
  Given the user is logged into Superset
  When the user navigates to any Superset page
  Then the user session is maintained
```

Common Task Cases:

20. **Ensure Secure Communication**

```
Scenario: Ensure secure communication
  Given Keycloak, Redmine, and Superset are configured
  When the user logs in via Google
  Then all communications are secured with HTTPS
```

21. **Configure User Roles in Keycloak for Redmine**

```
Scenario: Configure user roles in Keycloak for Redmine
  Given Keycloak is configured with roles
  When a user logs in to Redmine via Google
  Then the user roles are correctly mapped from Keycloak to Redmine
```

22. **Configure User Roles in Keycloak for Superset**

```
Scenario: Configure user roles in Keycloak for Superset
  Given Keycloak is configured with roles
  When a user logs in to Superset via Google
  Then the user roles are correctly mapped from Keycloak to Superset
```

23. **Test User Login Flow for Redmine**

```
Scenario: Test user login flow for Redmine
  Given Redmine is configured for Google login
  When a new user logs in
  Then the user is able to access Redmine seamlessly
```

24. **Test User Login Flow for Superset**

```
Scenario: Test user login flow for Superset
  Given Superset is configured for Google login
  When a new user logs in
  Then the user is able to access Superset seamlessly
```

25. **Handle User Deactivation in Redmine**

```
Scenario: Handle user deactivation in Redmine
  Given a user is deactivated in Keycloak
  When the user attempts to log in to Redmine
```

```
  Then the user is denied access
```

26. **Handle User Deactivation in Superset**

```
Scenario: Handle user deactivation in Superset
  Given a user is deactivated in Keycloak
  When the user attempts to log in to Superset
  Then the user is denied access
```

27. **Audit User Logins in Redmine**

```
Scenario: Audit user logins in Redmine
  Given Redmine is logging user activities
  When a user logs in via Google
  Then the login event is recorded in Redmine logs
```

28. **Audit User Logins in Superset**

```
Scenario: Audit user logins in Superset
  Given Superset is logging user activities
  When a user logs in via Google
  Then the login event is recorded in Superset logs
```

29. **Configure Keycloak Session Timeout**

```
Scenario: Configure Keycloak session timeout
  Given Keycloak is configured
  When the admin sets a session timeout
  Then the session timeout is enforced for both Redmine and Superset
```

30. **Test User Logout Across Services**

```
Scenario: Test user logout across services
  Given a user is logged into both Redmine and Superset
```

```
When the user logs out from one service
Then the user is logged out from the other service automatically
```