Package 'RCognito'

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Type Package

Title A Simplified Interface for 'Amazon Cognito'

Version 0.1.0

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Description Simplifies integration with 'Amazon Cognito' (<https://aws.amazon.com/cognito/>) for R developers, enabling easy management of user authentication, registration, and password flows.

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Encoding UTF-8

RoxygenNote 7.3.2

Imports paws

Suggests testthat (>= 3.0.0), mockery

Config/testthat/edition 3

NeedsCompilation no

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Repository CRAN

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Contents

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change_password   *Change User Password*

Description

Change User Password

Usage

```
change_password(old_password, new_password, token)
```

Arguments

old_password   A character string representing the user's current password.

new_password   A character string representing the user's new password.

token   A character string representing the user's access token.

Value

A message indicating the success of the password change, or an error if it fails.

---

confirm_forgot_password

Confirm Forgot Password

Description

This function confirms the forgot password process by setting a new password for a user.

Usage

```
confirm_forgot_password(client_id, username, confirmation_code, new_password)
```

Arguments

client_id   A character string representing the app client ID.

username   A character string for the user's username.

confirmation_code

                A character string for the confirmation code sent to the user.

new_password   A character string for the user's new password.

Value

Nothing (displays a message on success or raises an error if it fails).

---

confirm_sign_up_user   *Confirm User Sign Up*

Description

This function confirms the sign-up process for a user in AWS Cognito.

Usage

```
confirm_sign_up_user(client_id, userpool, username, verification_code)
```

Arguments

client_id   A character string representing the app client ID.

userpool   A character string representing the user pool ID.

username   A character string for the user's username.

verification_code

                 A character string for the verification code sent to the user.

Value

Nothing (displays a message on success or raises an error if it fails).

---

forgot_password   *Initiate Forgot Password Request*

Description

Initiate Forgot Password Request

Usage

```
forgot_password(client_id, username)
```

Arguments

client_id   A character string representing the app client ID.

username   A character string for the user's username.

Value

Nothing (displays a message on success or raises an error if it fails).

---

get_user_list_from_cognito

Get User List from Cognito

Description

Retrieve the list of usernames and email addresses from Cognito.

Usage

```
get_user_list_from_cognito(cognito_client, userpool)
```

Arguments

cognito_client   The Cognito client.

userpool   A character string representing the user pool ID.

Value

A list containing usernames and email addresses.

---

is_valid_email   *Check if an email address is valid.*

Description

This function validates the format of an email address.

Usage

```
is_valid_email(email)
```

Arguments

email   The email address to be validated.

Value

TRUE if the email is valid, otherwise an error is thrown.

---

is_valid_token | *Check if an access token is valid.*

Description

This function validates the format of an access token.

Usage

```
is_valid_token(token)
```

Arguments

token   The access token to be validated.

Value

TRUE if the token is valid, otherwise an error is thrown.

---

sign_in | *Sign in to AWS Cognito*

Description

Sign in to AWS Cognito

Usage

```
sign_in(client_id, username, password, authflow = "USER_PASSWORD_AUTH")
```

Arguments

client_id   A character string representing the app client ID.

username   A character string for the user's username.

password   A character string for the user's password.

authflow   A character string specifying the authentication flow (default: "USER_PASSWORD_AUTH").

Value

A list with user information and tokens if successful; throws an error otherwise.

sign_up_user   *Sign up a new user to AWS Cognito*

Description

Sign up a new user to AWS Cognito

Usage

```
sign_up_user(client_id, email, username, password, ...)
```

Arguments

client_id	A character string representing the app client ID.
email	A character string for the user's email address.
username	A character string for the user's username.
password	A character string for the user's password.
...	Additional named user attributes for Cognito (e.g., 'phone_number').

Value

A list with sign-up confirmation details if successful; throws an error otherwise.

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