

Package ‘firebase.auth.rest’

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Title R Wrapper for 'Firebase Authentication REST API'

Version 1.0.1

Description A convenient and user-friendly interface to interact with the 'Firebase Authentication REST API': <https://firebase.google.com/docs/reference/rest/auth>. It enables R developers to integrate 'Firebase Authentication' services seamlessly into their projects, allowing for user authentication, account management, and other authentication-related tasks.

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URL <https://github.com/kennedymwavu/firebase.auth.rest>

BugReports <https://github.com/kennedymwavu/firebase.auth.rest/issues>

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change_email	<i>Change email</i>
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Description

Change email

Usage

```
change_email(id_token, email)
```

Arguments

id_token	String. A Firebase Auth ID token for the user.
email	String. User's new email.

Details

DISCLAIMER: Changing a users's email requires that you disable email enumeration protection for your firebase project. This is NOT recommended.

- Learn about [email enumeration protection](#)
- Visit [Firebase Auth REST API docs](#) for more details

Value

A named list with the following items:

- localId: The uid of the current user.
- email: User's email address.
- passwordHash: Hash version of password.
- providerUserInfo: A named list of of all linked provider objects which contain "providerId" and "federatedId".
- idToken: New Firebase Auth ID token for user.
- refreshToken: A Firebase Auth refresh token.
- expiresIn: string The number of seconds in which the ID token expires.
- error:
 - NULL if no error code in response
 - A list of 2 if response was an error:
 - * code: Error code
 - * message: Error message

Examples

```
## Not run:
# first sign in user and get the 'id_token':
user <- sign_in(email = "user@gmail.com", password = "password")
id_token <- user$idToken

# change email:
response <- change_email(
  id_token = id_token,
  email = "new.email@mail.com"
)
response

## End(Not run)
```

change_password	<i>Change password</i>
-----------------	------------------------

Description

Change password

Usage

```
change_password(id_token, password)
```

Arguments

id_token	A Firebase Auth ID token for the user.
password	User's new password.

Details

Visit [Firebase Auth REST API docs](#) for more details

Value

A named list with the following items:

- localId: The uid of the current user.
- email: User's email address.
- passwordHash: Hash version of password.
- providerUserInfo: A named list of of all linked provider objects which contain "providerId" and "federatedId".
- idToken: New Firebase Auth ID token for user.
- refreshToken: A Firebase Auth refresh token.

- expiresIn: string The number of seconds in which the ID token expires.
- error:
 - NULL if no error code in response
 - A list of 2 if response was an error:
 - * code: Error code
 - * message: Error message

Examples

```
## Not run:
# first sign in user and get the 'id_token':
user <- sign_in(email = "user@gmail.com", password = "password")
id_token <- user$idToken

# change password:
response <- change_password(
  id_token = id_token,
  password = "new-user-password"
)
response

## End(Not run)
```

delete_account	<i>Delete account</i>
----------------	-----------------------

Description

Delete account

Usage

```
delete_account(id_token)
```

Arguments

id_token The Firebase ID token of the user to delete.

Details

Visit [Firebase Auth REST API docs](#) for more details

Value

A named list with the following items:

- error:
 - NULL if no error code in response
 - A list of 2 if response was an error:
 - * code: Error code
 - * message: Error message

Examples

```
## Not run:  
# first sign in user and get the 'id_token':  
user <- sign_in(email = "user@gmail.com", password = "password")  
id_token <- user$idToken  
  
# delete user account:  
response <- delete_account(id_token = id_token)  
response  
  
## End(Not run)
```

exchange_custom_token *Exchange custom token for an ID and refresh token*

Description

Exchanges a custom Auth token for an ID and refresh token

Usage

```
exchange_custom_token(token)
```

Arguments

token	String. A Firebase Auth custom token from which to create an ID and refresh token pair
-------	--

Details

Visit [Firebase Auth REST API docs](#) for more details

Value

A named list with the following items:

- idToken: A Firebase Auth ID token generated from the provided custom token.
- refreshToken: A Firebase Auth refresh token generated from the provided custom token.
- expiresIn: The number of seconds in which the ID token expires.
- error:
 - NULL if no error code in response
 - A list of 2 if response was an error:
 - * code: Error code
 - * message: Error message

Examples

```
## Not run:  
  exchange_custom_token(token = "your-firebase-auth-custom-token")  
  
## End(Not run)
```

exchange_refresh_token

Exchange a refresh token for an ID token

Description

Refreshes a Firebase ID token

Usage

```
exchange_refresh_token(refresh_token)
```

Arguments

refresh_token String. A Firebase Auth refresh token.

Details

Visit [Firebase Auth REST API docs](#) for more details

Value

A named list with the following items:

- expires_in: The number of seconds in which the ID token expires.
- token_type: The type of the refresh token, always "Bearer".
- refresh_token: The Firebase Auth refresh token provided, or a new refresh token.
- id_token: A Firebase Auth ID token.
- user_id: The uid corresponding to the provided ID token.
- project_id: Your Firebase project ID.
- error:
 - NULL if no error code in response
 - A list of 2 if response was an error:
 - * code: Error code
 - * message: Error message

Examples

```
## Not run:  
# first sign in user and get the 'refresh_token':  
user <- sign_in(email = "user@gmail.com", password = "password")  
refresh_token <- user$refreshToken  
  
# exchange the refresh token:  
response <- exchange_refresh_token(refresh_token = refresh_token)  
response  
  
## End(Not run)
```

get_user_data

Get user data from firebase

Description

Get user data from firebase

Usage

```
get_user_data(id_token)
```

Arguments

id_token String. The Firebase ID token of the account.

Details

Visit [Firebase Auth REST API docs](#) for more details

Value

A named list with the following items:

- users: A list of length 1 which contains a nested named list with the following items:
 - localId: The uid of the current user.
 - email: The email of the account.
 - emailVerified: Whether or not the account's email has been verified.
 - displayName: The display name for the account.
 - providerUserInfo: Named list of provider objects which contain "providerId" and "federatedId".
 - photoUrl: The photo Url for the account.
 - passwordHash: Hash version of password.
 - passwordUpdatedAt: The timestamp, in milliseconds, that the account password was last changed.
 - validSince: The timestamp, in milliseconds, which marks a boundary, before which Firebase ID token are considered revoked.
 - disabled: Whether the account is disabled or not.
 - lastLoginAt: The timestamp, in milliseconds, that the account last logged in at.
 - createdAt: The timestamp, in milliseconds, that the account was created at.
 - customAuth: Whether the account is authenticated by the developer.
- error:
 - NULL if no error code in response
 - A list of 2 if response was an error:
 - * code: Error code
 - * message: Error message

Examples

```
## Not run:
user_data <- get_user_data("<id_token>")
lapply(user_data, `[`, 1)

## End(Not run)
```

```
send_email_verification
```

Send email verification

Description

Send email verification

Usage

```
send_email_verification(id_token)
```


Arguments

`id_token` The Firebase ID token of the user to verify.

Details

Visit [Firebase Auth REST API docs](#) for more details

Value

A named list with the following items:

- `email`: The email of the account.
- `error`:
 - NULL if no error code in response
 - A list of 2 if response was an error:
 - * `code`: Error code
 - * `message`: Error message

Examples

```
## Not run:  
send_email_verification("id-token-goes-here")  
  
## End(Not run)
```

```
send_password_reset_email  
                          Send password reset email
```

Description

Send password reset email

Usage

```
send_password_reset_email(email)
```

Arguments

`email` User's email address.

Details

Visit [Firebase Auth REST API docs](#) for more details

Value

A named list with the following items:

- email: Users' email address.
- error:
 - NULL if no error code in response
 - A list of 2 if response was an error:
 - * code: Error code
 - * message: Error message

Examples

```
## Not run:  
send_password_reset_email("user-email-goes-here")  
  
## End(Not run)
```

sign_in

Sign in a user with email & password

Description

Sign in a user with email & password

Usage

```
sign_in(email, password)
```

Arguments

email	User email
password	User password

Details

Visit [Firebase Auth REST API docs](#) for more details

Value

A named list with the following items:

- idToken: A Firebase Auth ID token for the authenticated user.
- email: The email for the authenticated user.
- refreshToken: A Firebase Auth refresh token for the authenticated user.
- expiresIn: The number of seconds in which the ID token expires.
- localId: The uid of the authenticated user.

- registered: Whether the email is for an existing account.
- error:
 - NULL if no error code in response
 - A list of 2 if response was an error:
 - * code: Error code
 - * message: Error message

Examples

```
## Not run:
  sign_in(email = "user-email", password = "strong-password")

## End(Not run)
```

sign_in_anonymously *Sign in a user anonymously*

Description

Sign in a user anonymously

Usage

```
sign_in_anonymously()
```

Details

To use sign in users anonymously, you must first enable the Anonymous sign in method in your firebase project.

Go to [Firebase console](#) and check your *Sign-in* providers under the *Sign-in Methods* tab in the *Authentication* service and make sure *Anonymous* is enabled.

Visit [Firebase Auth REST API docs](#) for more details.

Value

A named list with the following items:

- idToken: A Firebase Auth ID token for the newly created user.
- email: Since the user is anonymous, this should be empty.
- refreshToken: A Firebase Auth refresh token for the newly created user.
- expiresIn: The number of seconds in which the ID token expires.
- localId: The uid of the newly created user.
- error:
 - NULL if no error code in response
 - A list of 2 if response was an error:
 - * code: Error code
 - * message: Error message

Examples

```
## Not run:
  user <- sign_in_anonymously()
  user

## End(Not run)
```

sign_up

Sign up with email/password

Description

Sign up with email/password

Usage

```
sign_up(email, password)
```

Arguments

email	The email for the user to create.
password	The password for the user to create.

Details

Visit [Firebase Auth REST API docs](#) for more details

Value

A named list with the following items:

- idToken: A Firebase Auth ID token for the newly created user.
- email: The email for the newly created user.
- refreshToken: A Firebase Auth refresh token for the newly created user.
- expiresIn: The number of seconds in which the ID token expires.
- localId: The uid of the newly created user.
- error:
 - NULL if no error code in response
 - A list of 2 if response was an error:
 - * code: Error code
 - * message: Error message

Examples

```
## Not run:
  sign_up(email = "new-user-email", password = "strong-password")

## End(Not run)
```

update_profile	<i>Update user profile</i>
----------------	----------------------------

Description

Update a user's profile (display name / photo URL).

Usage

```
update_profile(  
  id_token,  
  display_name = NULL,  
  photo_url = NULL,  
  delete_attribute = NULL  
)
```

Arguments

id_token	String. A Firebase Auth ID token for the user.
display_name	String. User's new display name. Defaults to NULL.
photo_url	String. User's new photo url. Defaults to NULL.
delete_attribute	Character vector of attributes to delete. Either "DISPLAY_NAME" or "PHOTO_URL". This will nullify these values. Defaults to NULL.

Details

Visit [Firebase Auth REST API docs](#) for more details

Value

A named list with the following items:

- localId: The uid of the current user.
- email: User's email address.
- displayName: User's new display name.
- photoUrl: User's new photo url.
- passwordHash: Hash version of password.
- providerUserInfo: A named list of of all linked provider objects which contain "providerId" and "federatedId".
- idToken: New Firebase Auth ID token for user.
- refreshToken: A Firebase Auth refresh token.
- expiresIn: string The number of seconds in which the ID token expires.
- error:

- NULL if no error code in response
- A list of 2 if response was an error:
 - * code: Error code
 - * message: Error message

Examples

```
## Not run:
update_profile(
  id_token = "id-token-goes-here",
  display_name = "new-user-display-name",
  photo_url = "url-to-user-photo"
)

# to delete the display name attribute:
update_profile(
  delete_attribute = "DISPLAY_NAME"
)

## End(Not run)
```

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