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Altizure Open Platform

Welcome to Altizure Open Platform！

On Altizure, you can not only experience the most advanced 3D reconstruction technology to turn 2D photos to realsitc 3D models, but also use the online 3D publishing service to share and enjoy the 3D models.

Join Altizure open platform to integrate the powerful 3D reconstruction and publishing services on Altizure to your business workflow. Unleash the power of realistic 3D models!

Let's start the journey.

- Concepts
- Developer Account
- GraphGL API
- Javascript SDK

Learn more about Altizure at:

- Explore the 3D world on Altizure: altizure.com/explore
- Facebook page
- Official blog: blog.altizure.com
- Offline documentations: pdf, epub

Contact us support@altizure.com

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Concepts

Before starting to develop with Altizure, here we introduce a few concepts. If you have used some development SDK for other online platform, e.g. facebook app or github sdk, you should be familiar with them.

1. Developer account

If you do not have an altizure account yet, please get one on sign up page.

Then you can apply for developer account. All development tools and privileges will be linked with this account. Please keep this account secure and safe.

2. App

To be added

App key

To be added

App secret

To be added

3. User token

To be added

4. GraphQL API

Altizure GraphQL API is a set of API in the syntax of GraphQL. The API allows developers to fetch and modify the data on Altizure. Learn more at GraphGL API

5. Javascript SDK

Altizure Javascript SDK allows you to integrate rich 3D experience with our realistic 3D models to your business workflow. Learn more at Javascript SDK

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Developer Account

We are sorry that the developer account is not yet for public application. It is only for invited partners at the moment.

For latest information about our open platform, please keep following us at:

- Facebook page
- Official blog: blog.altizure.com

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Altizure Graphql API

Altizure GraphQL API is a set of API in the syntax of GraphQL. The API allows developers to fetch and modify the data on Altizure.

1. Prerequisite

- Altizure developer account
- App key
- User token (optional)

2. API Endpoint and Documentations

API endpoints and documentations: api.altizure.com/graphql.

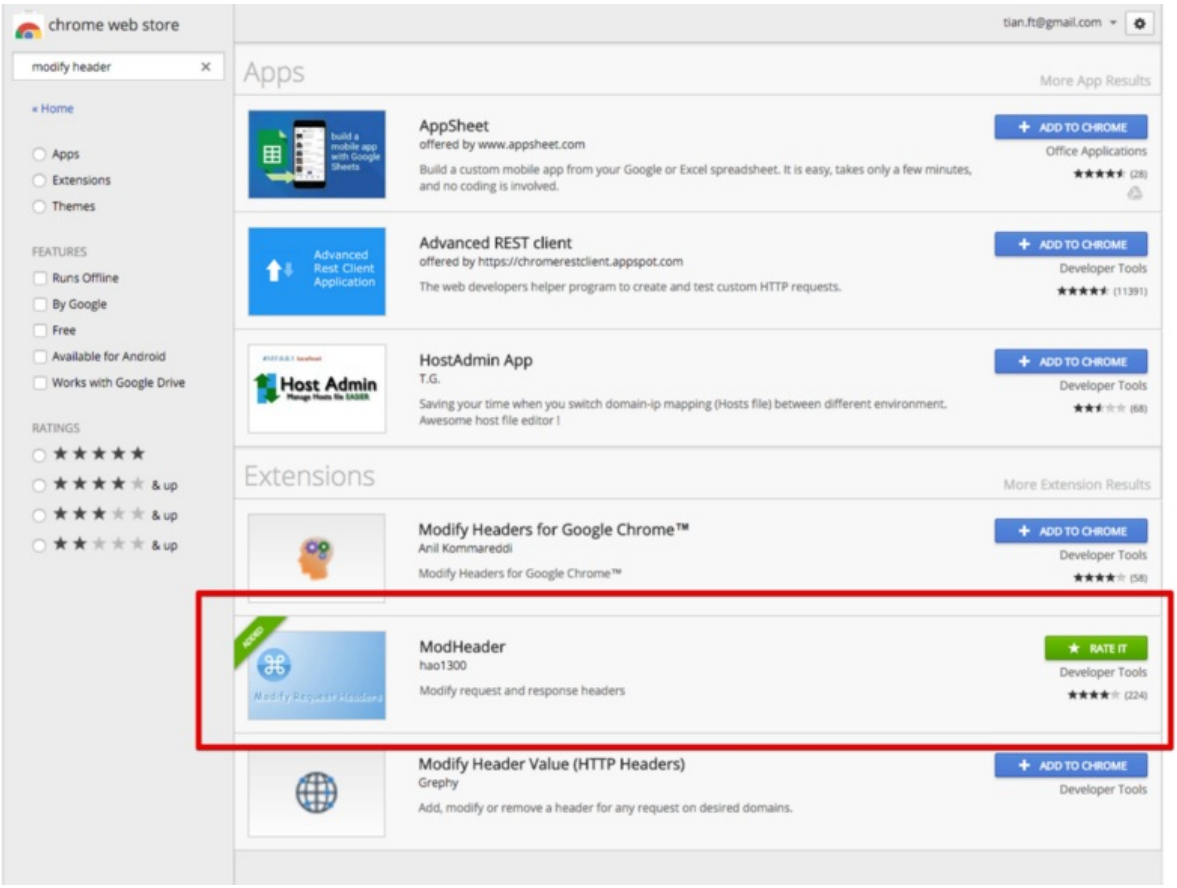
3. Try out API in your browser

It is very convenience to test the API in browsers, because it provides instant feedback on the query results and detailed inline documentations. After the testing, you can easily copy and paste the query string to your code and trigger the API call.

We take Google Chrome as an example. Other browsers supporting extensions, e.g. Firefox, should work too.

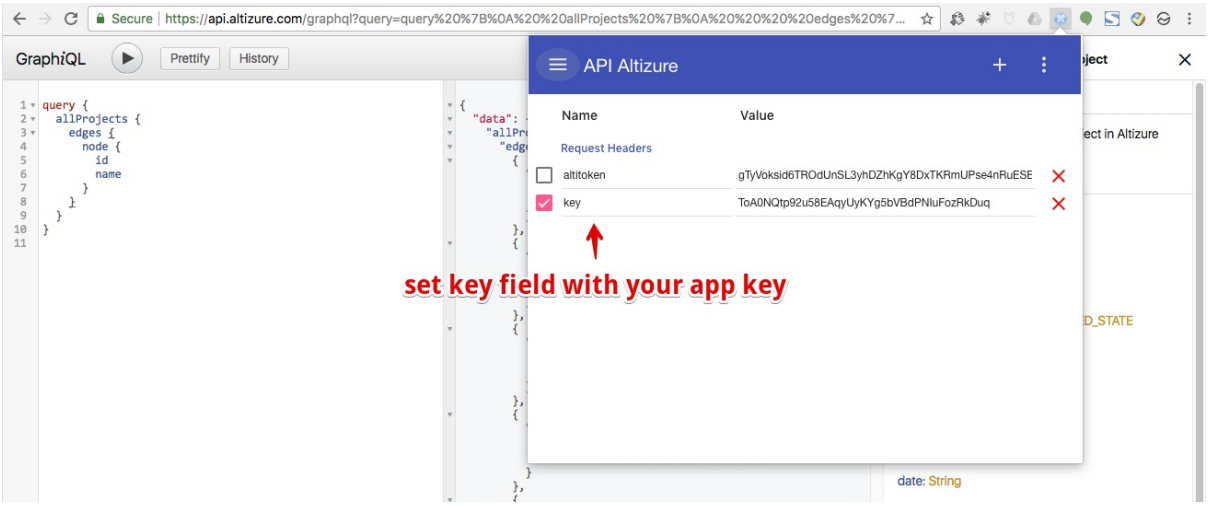
Install extension

First, please install an extension that can modify the http request header. Here ModHelper is used. Please search and install `ModHelper` in the extension store of Google Chrome.



Modify http header

Please use ModHelper to add `key` field in request header with app key as the value.



Visit api.altizure.com/graphql after setting the key. You can find three sections: "query section", "result section", and "documentation", on the page.

Now please fill the following query string to the query section to get the ID and name of public projects.

```
query {
  allProjects {
    edges {
      node {
        id
        name
```

```
        }
      }
    }
  }
```

Please click the action button to get the query results.

4. Integrate the API in your code

The API can be called by any libs and programming languages that can issue a http post request.

For example:

JQurey in Javascript

```
$.ajax({
    type: 'POST',
    url: 'https://api.altizure.com/graphql',
    headers: {
      altitoken: 'user token',
      key: 'app key'
    },
    data: 'query=' + 'GraphGL query string'
  })
```

5. Obtain user token

User token is obtained via the standard OAuth 2 flow.

The authorization endpoint is the following url:

```
`https://api.altizure.com/start?client_id=${appKey}&response_type=token&redirect_uri=${redirect_uri}`
```

where **appKey** is your application key, and **redirect_uri** is one of the domains associated with your application.

Your application needs to route/open this url. A form will be shown to your users asking for their authorizations. After your users have authorized the request, the page will be redirected back to your **redirect_uri** with a url hash variable of key: **access_token**.

For mobile application, the **redirect_uri** will be your application's bundle identifier name (iOS) or your package name (android).

For a vanilla JS implementation, please refer to here.

6. FAQ

6.1 How to access the api in Mainland China?

Please use `https://api.altizure.cn/graphql`. It is better to choose a reachable and faster endpoint whenever possible in the logic of your application instead of hardcoding the api endpoint.

6.2 Where to find more detailed documentations on GraphQL API

Please follow the above tutorial and browse api.altizure.cn/graphql with your browser. All documentations are embedded in the web frontend of our api endpoint.

7. Learn more

- Learn more about GraphQL
- Use Altizure Javascript SDK to developer rich 3D application
- More tools on GraphQL: Awesome GraphGL

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Altizure Javascript SDK

Altizure Javascript SDK allows you to integrate rich 3D experience with our realistic 3D models to your business workflow. Combined with tools like Elctron and React Native, you can easily develop high quality 3D applications with realistic models for desktop and mobile apps.

1. Basics

Coming soon

2. Sample

Coming soon

3. Reference manual

Coming soon

4. Learn more

- ThreeJS
- WebGL
- OpenGL
- Vulkan
- OpenGL Transformation

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