

# Modal Environment Setup and Deployment Guide

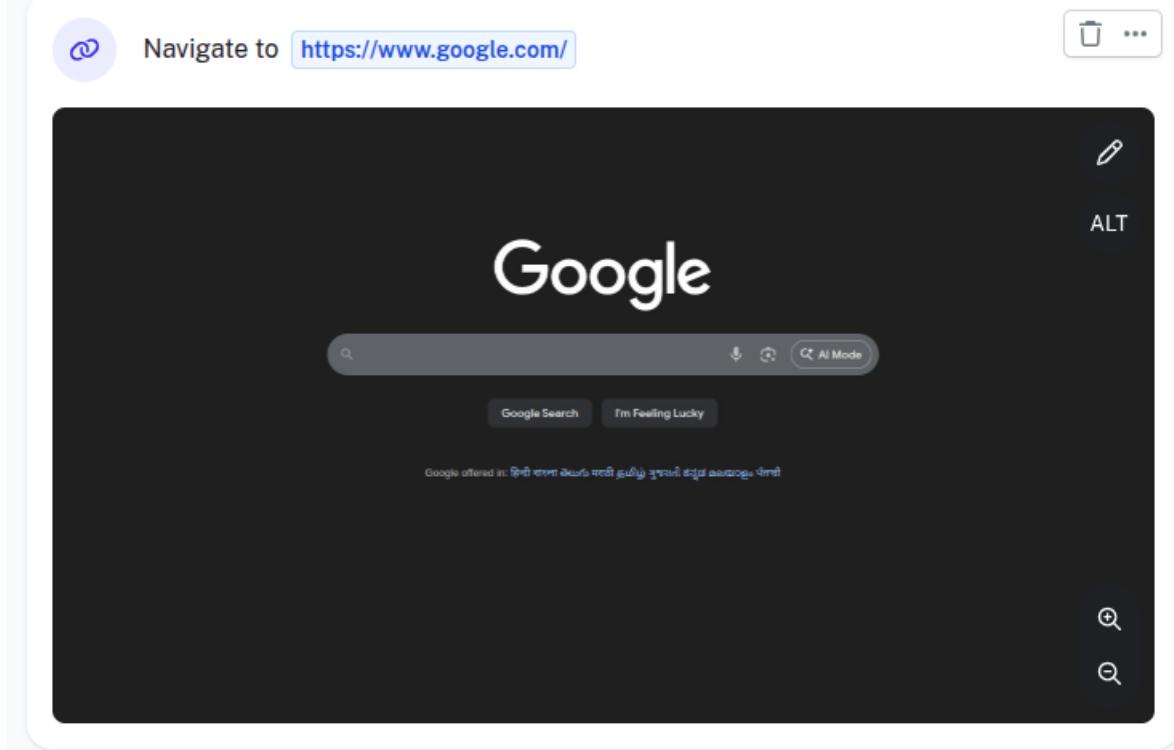
All commands have to be run on bash in same directory as of backend.

## Step 1.

Install Dependencies: Begin by installing the necessary project dependencies. Execute the following command in your terminal to install the packages defined in your requirements file: `pip install -r requirements.txt`

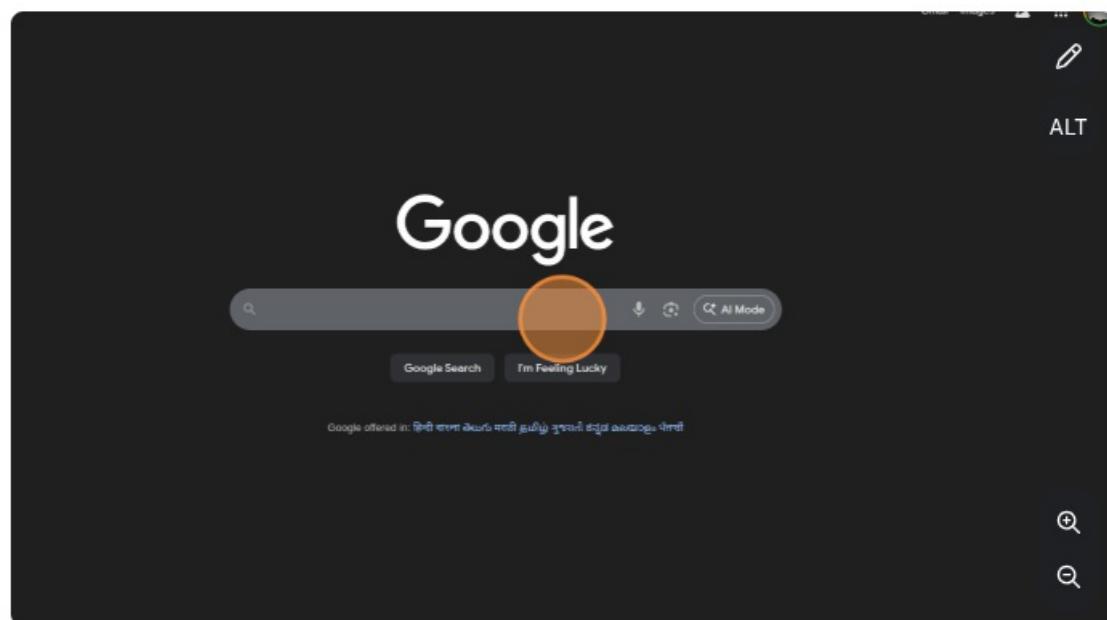
## Step 2.

Account Registration Navigate to the Modal platform and register for a new account. Follow the sign-up workflow to create your credentials and establish your workspace, as illustrated in the sequence below:



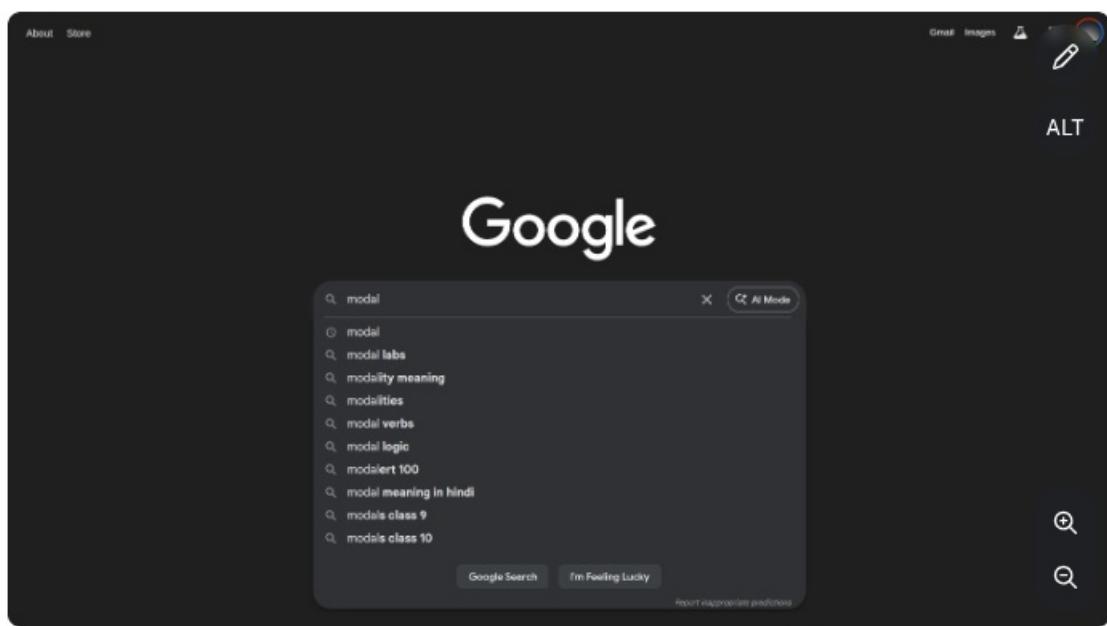


Click this field.



3

Type "modal" **Enter**





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Get Started →

The first command will install modal.  
The second command creates a configuration file.

1 Download and config  
2 Run some code

Credits Remaining: \$5.00

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Online or in-person course  
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Forums (Reddit, Hacker News)  
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Click the "Please specify" field.



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### Welcome to Modal!

We'll set up your account to fit your needs.

How are you planning to use Modal?

① Download and config

Run this in order to install it:

```
$ pip install modal  
$ python3 -m modal set
```

The first command will install the Python library.  
The second command creates a configuration file.

② Run some code

How did you hear about us?

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Please specify

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...

The screenshot shows the Modal app's 'Create your first app' guide. Step 1, 'Download and configure the Python client', is displayed. It includes two terminal commands: '\$ pip install modal' and '\$ python3 -m modal setup'. A 'Copy' button is highlighted with a red circle. Step 2, 'Run some code', is partially visible below.

## Step 3.

Client Installation and Configuration Install the Modal client library and initiate the setup process to authenticate your local environment with your cloud account. Run the following commands:

```
pip install modal  
python -m modal setup
```

## Step 4.

The setup command will generate an authentication URL in the terminal. Open this link in your web browser (either by manually copying and pasting it or using Ctrl + Click) to authorize the device.

Was not able to launch web browser

Please go to this URL manually and complete the flow:

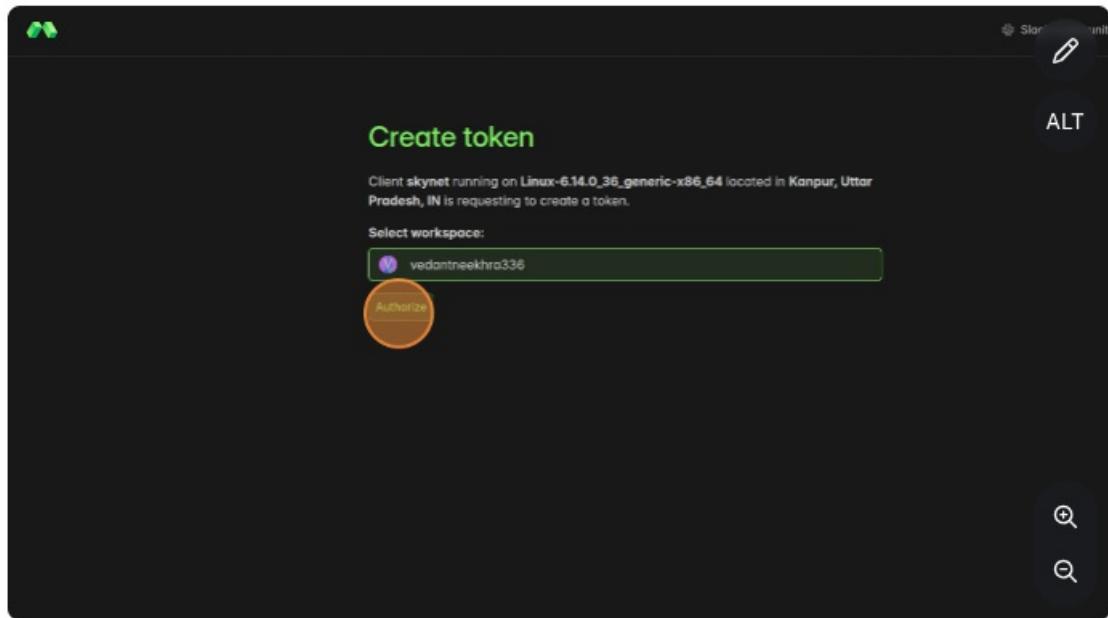
<https://modal.com/token-flow/tf-flyAKFeV2SoMG4MMStYcB2>

Waiting for token flow to complete...

Copy the link given in the terminal or do CTRL+CLICK

15

Click "Authorize"



## Step 5.

Service Deployment and Endpoint Integration Deploy your script to the Modal cloud environment by executing the serving command:

```
modal serve script.py
```

Once the service is active, the terminal will output a unique web endpoint URL. A link will appear in the terminal copy this link

```
✓ Initialized. View run at https://modal.com/apps/vedantneekhra336/main/ap-YTgtBuYQb34PzZhUZSWItz
✓ Created objects.
└─ Created mount /home/nigga/Desktop/ISRO/choding/ISRO_TEAM54/script.py
└─ Created function ConsolidatedVLMMModels.*.
```

and paste it to replace the link at the top of `modal_request.py`

```
modal_request.py 2 ×
ISRO_TEAM54 > isro_v2 > modal_request.py > llama3_8b
1 import requests
2
3 base_url = "https://modal.com/apps/vedantneekhra336/main/ap-40P9C5QUDB09euuzythLfs"
4 def llama3_8b(messages):
5 |
```

## Step 7

Now we can run the main python script for backend

```
python backend/main.py
```

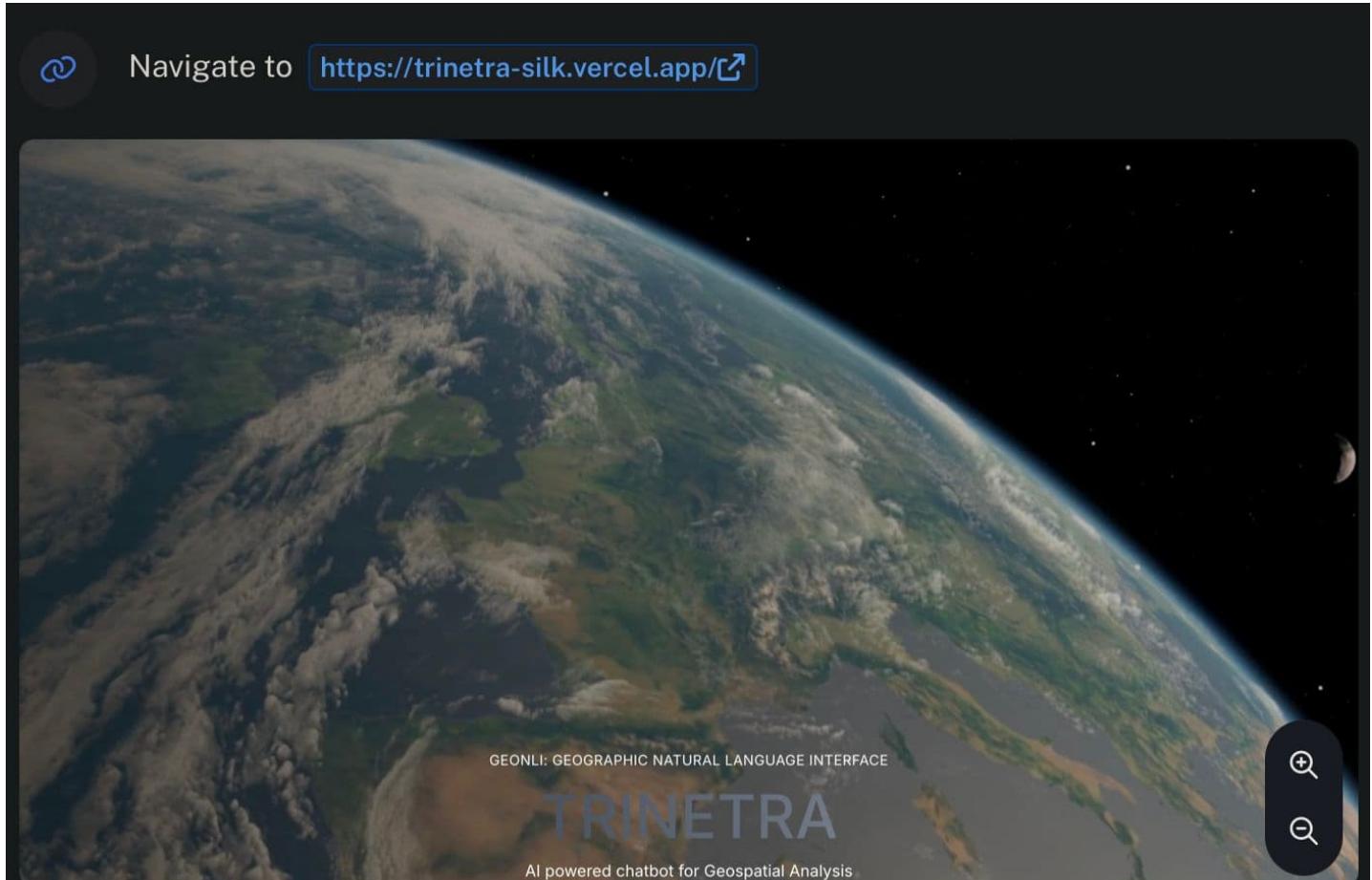
## Step 8

Navigate to frontend directory and run the following commands to start the frontend ..

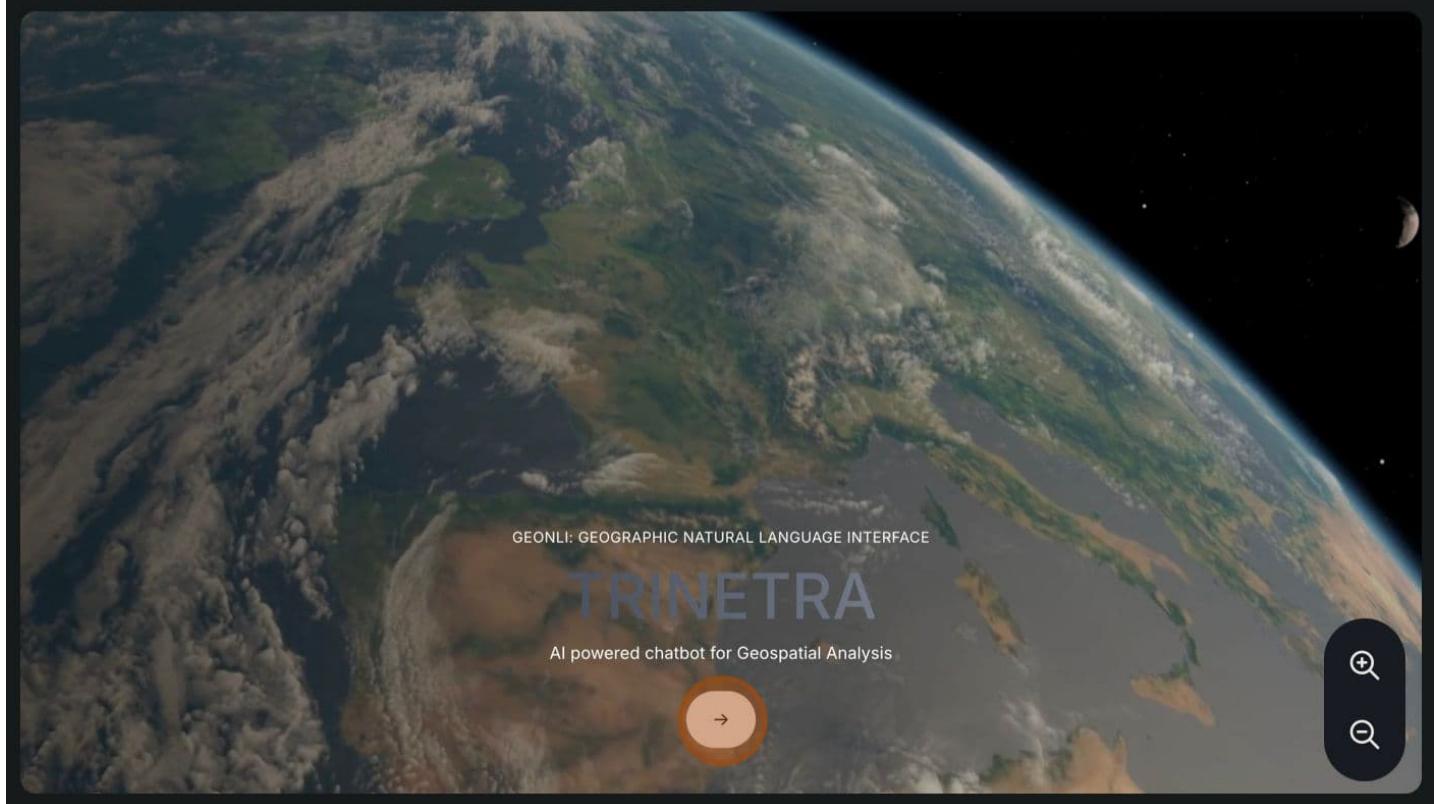
```
npm i
npm run dev
```

This will deploy the local frontend with flask as the backend and modal as our gpu servers.

# Website Guide

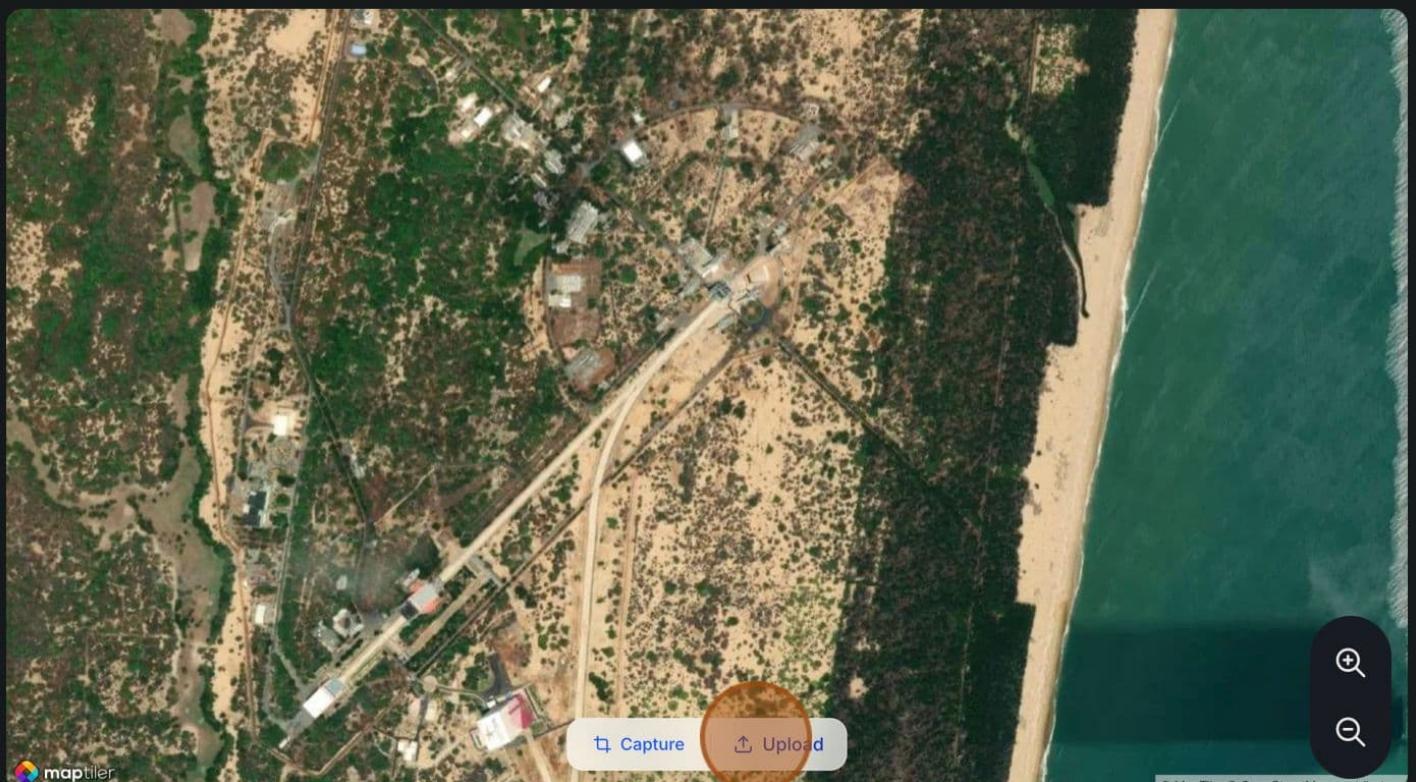


2 Click "→"

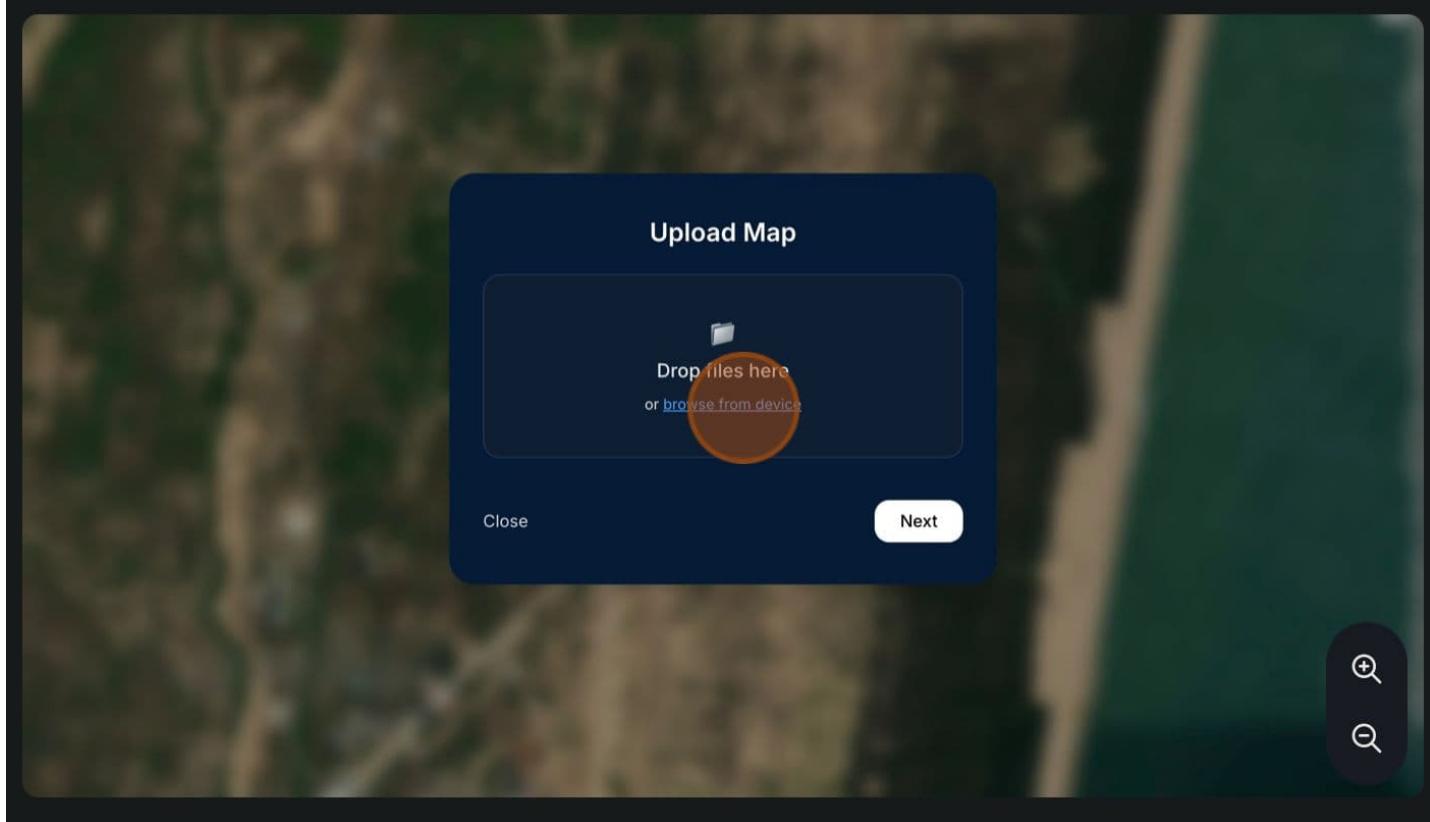




Click "Upload"

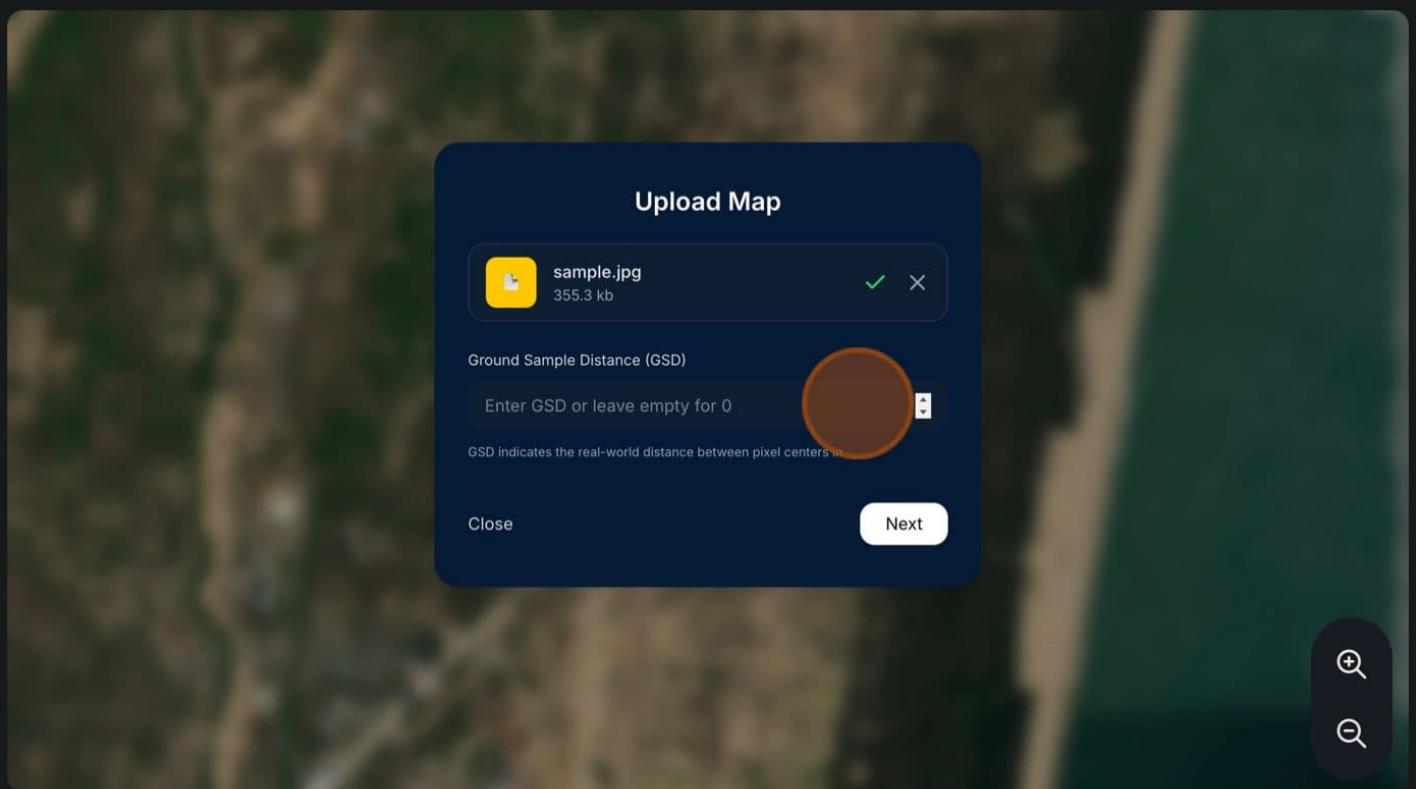


Click "browse from device"

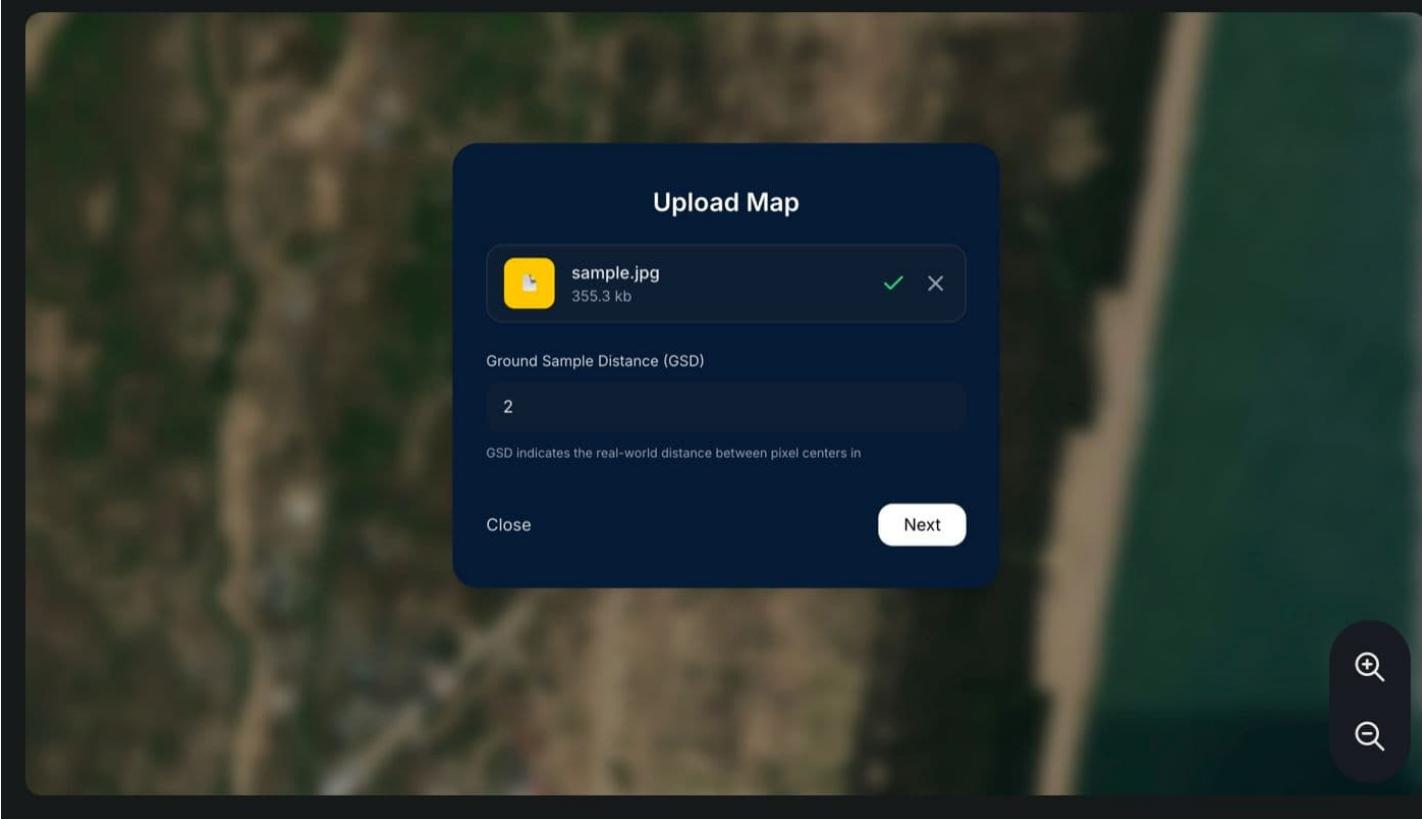




Click the "Enter GSD or leave empty for 0" field.

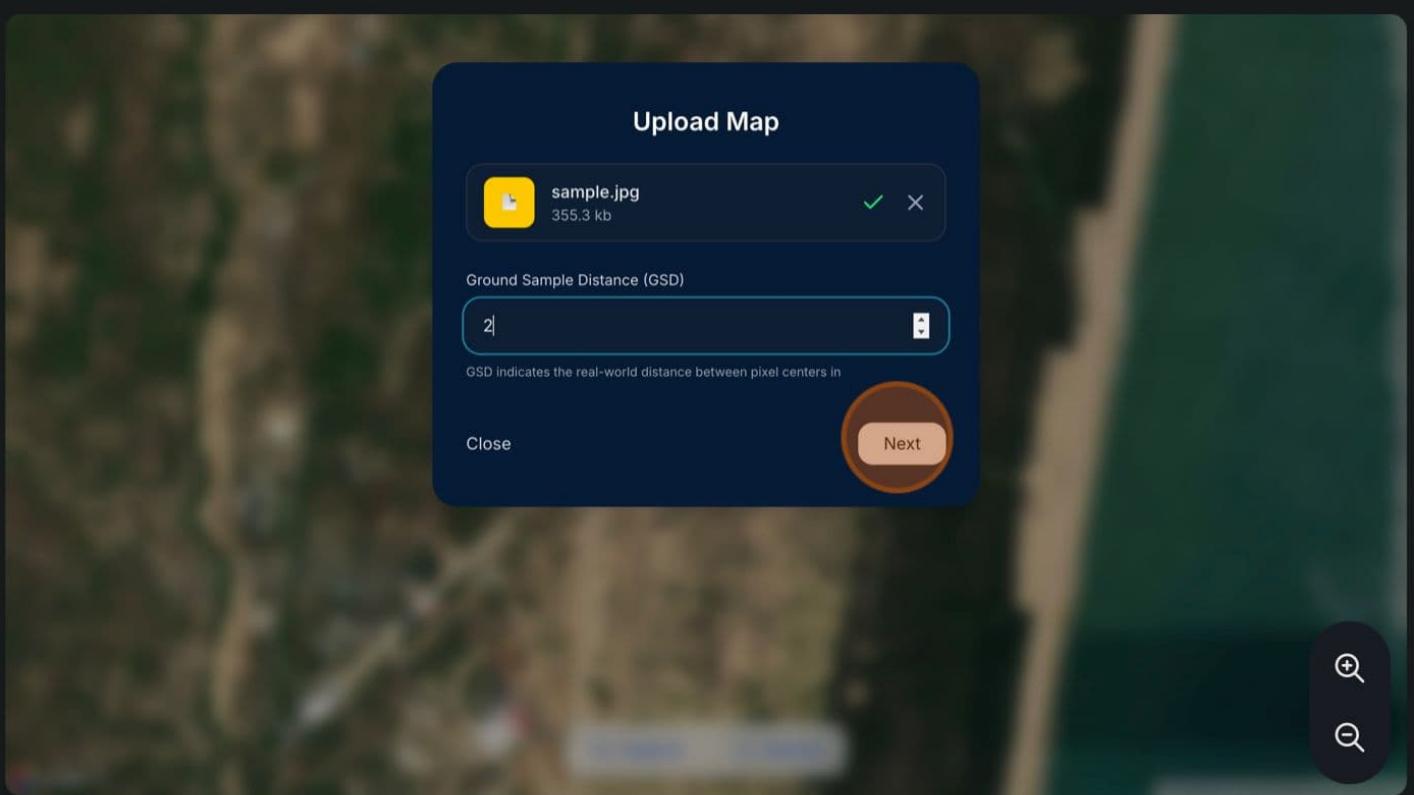


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Click "Next"



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