TRIP @ US



A0213523U	MEHTA VIDISH PRANAV
A0213496B	ANKEIT TAKSH
A0198539H	WANG KUAN-KAI
A0213514U	ANANDAN NATARAJAN

MTECH GROUP -11 TRIP @ US USER GUIDE

INSTALLAZTION GUIDE

ISS-VM INSTALLATION

STEP 1: INSTALL ISS VM

This application runs on Ubuntu and hence it is highly recommended to install ISS-VM and virtual box in your PC.

Please follow the instruction at https://github.com/telescopeuser/iss-vm to install NUS ISS-VM

STEP 2: GET PROJECT REPOSITORY

Open your terminal in NUS ISS-VM and go to desktop as the current directory. You may do so by following this command:

Make a new directory called Trip@Us Test

```
iss-user@iss-vm: ~/Desktop
(base) iss-user@iss-vm:~/Desktop$ mkdir Trip@UsTest
(base) iss-user@iss-vm:~/Desktop$
```

Cd into the folder

MTECH GROUP -11 TRIP @ US Y USER GUIDE

Git clone from project directory: https://github.com/vid1994/TripAtUs

```
(base) iss-user@iss-vm:~/Desktop/Trip@UsTest$ git clone https://github.com/vid1994/TripAtUs Cloning into 'TripAtUs'...
remote: Enumerating objects: 890, done.
remote: Counting objects: 100% (890/890), done.
remote: Compressing objects: 100% (604/604), done.
remote: Total 890 (delta 399), reused 763 (delta 273), pack-reused 0
Receiving objects: 100% (890/890), 24.56 MiB | 3.84 MiB/s, done.
Resolving deltas: 100% (399/399), done.
Checking connectivity... done.
(base) iss-user@iss-vm:~/Desktop/Trip@UsTest$

■
```

STEP 3: CREATE CONDA ENVIRONMENT

Conda is already installed in NUS ISS VM. Please create a new virtual environment following below commands. This is done so as to isolate our working environment from our base environment.

```
iss-user@iss-vm: ~/Desktop/Trip@UsTest
(base) iss-user@iss-vm: ~/Desktop/Trip@UsTest$ conda -V
conda 4.7.12
(base) iss-user@iss-vm: ~/Desktop/Trip@UsTest$ conda create -n TripAtUsTest python=3.6 anaconda
Collecting package metadata (repodata.json): /
```

Once installed, you will be able to see the transactions as done.

```
iss-user@iss-vm: ~/Desktop/Trip@UsTest
                               pkgs/main/linux-64::yaml-0.1.7-had09818_2
   yaml
                              pkgs/main/linux-64::yami-0.1.7-had09818_2
pkgs/main/linux-64::yapf-0.28.0-py_0
pkgs/main/linux-64::zeromq-4.3.1-he6710b0_3
pkgs/main/noarch::zict-1.0.0-py_0
pkgs/main/linux-64::zlib-1.2.11-h7b6447c_3
pkgs/main/linux-64::zstd-1.3.7-h0b5b093_0
   yapf
   zeroma
  zict
  zipp
zlib
   zstd
Proceed ([y]/n)? y
Preparing transaction: done
Verifying transaction: done
Executing transaction: done
  To activate this environment, use
        $ conda activate TripAtUsTest
   To deactivate an active environment, use
        $ conda deactivate
(base) iss-user@iss-vm:~/Desktop/Trip@UsTestS
```

MTECH GROUP -11 TRIP @ US Y USER GUIDE

Next, activate your conda environment.

Now pip install all packages from requirements.txt file

```
iss-user@iss-vm: ~/Desktop/Trip@UsTest/TripAtUs

(TripAtUsTest) iss-user@iss-vm: ~/Desktop/Trip@UsTest/TripAtUs$ pip install -r requirements.txt

Requirement already satisfied: actionlib==1.11.13 in /opt/ros/kinetic/lib/python2.7/dist-packages (from -r requirements.txt (line 1)) (1.11.13)

Requirement already satisfied: alabaster==0.7.12 in /home/iss-user/anaconda3/envs/TripAtUsTest/lib/python3.6/sit
e-packages (from -r requirements.txt (line 2)) (0.7.12)

Collecting amqp==2.5.2

Using cached amqp-2.5.2-py2.py3-none-any.whl (49 kB)

Requirement already satisfied: anaconda-client==1.7.2 in /home/iss-user/anaconda3/envs/TripAtUsTest/lib/python3.
```

As gdal is best run through conda, please run conda install gdal

Great, now your environment is setup.

STEP 4: CHECK RABBITMQ

Rabbit mq is the message brokerage service that queues tasks for our celery workers. We have already made it created the host and you can run the below command to confirm that it is working.

```
iss-user@iss-vm: ~/Desktop/Trip@UsTest/TripAtUs

(TripAtUsTest) iss-user@iss-vm: ~/Desktop/Trip@UsTest/TripAtUs$ sudo rabbitmqctl status

[sudo] password for iss-user:

Status of node 'rabbit@iss-vm' ...

[{pid,16510},

{running_applications,[{rabbit,"RabbitMQ","3.5.7"},

{mnesia,"MNESIA CXC 138 12","4.13.3"},

{xmerl,"XML parser","1.3.10"},

{os_mon,"CPO CXC 138 46","2.4"},
```

If you would like to create a separate host, please follow the instructions on this page https://docs.celeryproject.org/en/stable/getting-started/brokers/rabbitmq.html

Please ensure that you configure the host in the settings.py file in Django.

MTECH GROUP -11 TRIP @ US Y USER GUIDE

STEP 5: RUN CELERY

Celery are the server workers that will run the task asynchronously.

Firstly cd into main directory. Please do note that the directory was changed to system code, hence cd into system code.

```
iss-user@iss-vm: ~/Desktop/Trip@UsTest/TripAtUs/TripAtUs

(TripAtUsTest) iss-user@iss-vm:~/Desktop/Trip@UsTest/TripAtUs$ cd TripAtUs

(TripAtUsTest) iss-user@iss-vm:~/Desktop/Trip@UsTest/TripAtUs/TripAtUs$
```

In order to start the celery server please type the following command

```
Segues Service Scripts Async. Plan My_trip
Service Scripts Async. Lest Celery worker

[2020-05-10 12:50:55, 435: INFO/MainProcess] Connected to amgp://tripatus:**@127.0.0.1:5672/myvhost
[2020-05-10 12:50:55, 555: Async. Lest Celery worker
[2020-05-10 12:50:55, 555: Async. Lest Celery worker
[2020-05-10 12:50:55, 555: Main INFO/MainProcess] mingle: searching for neighbors
[2020-05-10 12:50:55, 555: MsrNino/MainProcess] mingle: all alone
[2020-05-10 12:50:55, 555: INFO/MainProcess] celery@iss-vm ready.

Lesk never use this setting in production environments!

Lesk never use this setting in production environments!

[2020-05-10 12:50:56, 505: INFO/MainProcess] celery@iss-vm ready.
```

It is important to kill the server when you are not running the application. Please kill the celery work using the below command

MTECH GROUP -11 TRIP @ US USER GUIDE

STEP 6: FINAL STEP RUN DJANGO

In the same directory, please run the following command to start server at port: 127.0.0.1:8000

You can now open the application in port 127.0.0.1:8000 and start using it 😊

