

# TPI-astronomie

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## Key features

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- A home page with the website's main goals
- A page containing all the objects of the catalog of Messier where you can search for an element or filter them according to an order depending on the data type: numerical or alphabetical
- A page with a list of outings added by the website's admins
- An admin can log in and adds outings
- The whole website is responsive

## Requirements

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- Python 3.9.11 or above
- An IDE, PyCharm was used for this project
- a PostgreSQL server and a client, e.g. PgAdmin 4

## Installation

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The project is under /astronomy\_app/. All the requirements are listed in the file /astronomy\_app/requirements.txt. You can install them with Windows command prompt:

```
pip install -r requirements.txt
```

## Database

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Import the database with the file /data/db\_astronomy.sql.

In Windows command prompt:

```
createdb -U db_astronomy  
psql -U -d db_astronomy < \db_astronomy.sql
```

- username: the default username for PostgreSQL is postgres
- path: the complete file path of the script db\_astronomy.sql

To change the PostgreSQL URI used by the web app, open the file /astronomy\_app/config.py :

```
19 # Encode the character to avoid error with some characters, especially useful for '@'  
20 username = urllib.parse.quote('postgres')  
21 password = urllib.parse.quote("P@$w0rd")  
22 SQLALCHEMY_DATABASE_URI = f'postgresql://{username}:{password}@localhost:5432/db_astronomy'
```