

# Group 5 NebulaNet Installation Documentation

Jacob Burke, Isabella Cortez, Freddy Lopez, Daniel Willard, Simon Zhao

3/3/2024 v1.1

## Document Summary:

This document is intended for system administrators to install and setup the NebulaNet website on a linux server. This program was created for an assignment for Computer Science 422 Software Methodologies. This document first lists the version dependencies of the program, how to install necessary dependencies, and finally how to run the setup script.

## Version Dependencies:

The following list serves as a guide to highlight which software package versions are suggested or required to ensure proper installation and functioning of the NebulaNet website and it's Python update programs. It is possible that running an older version of the listed software dependencies will still result in the website working correctly, however this can not be advised. Likewise running a significantly newer software version of these dependencies might result in untested and unexpected side effects of the programs/website.

### Software:

- Python v3.11.6
- SQLite3

### Python Specific Packages:

- Pip (Python Package Manager) (latest version available)

### Python Libraries:

- Astroquery
- Astropy
- Matplotlib
- Numpy
- BeautifulSoup
- Requests
- Pytest

## Software Installation Instructions:

There is a simple bash script provided to assist and automatically install all necessary/required software packages/libraries. If for some reason the script fails to run correctly, it is setup to provide errors to assist with narrowing down the specific issue. Further debugging and manual install may be required on the system administrators part. This bash script is intended to run on the most commonly available Linux distributions.

```
chmod u+x install_script_linux.sh
./install_script_linux.sh
```

