MIT RailSim

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ONE

SETUP GUIDE

This section outlines the steps for setting up the project environment using Pipenv, a tool for managing package dependencies and virtual environments. It assumes that the user has a working installation of pip.

1.1 Prerequisites

- Ensure pip is installed by running `pip --version` in your terminal. If pip is not installed, follow the instructions on the pip installation guide.

1.2 Installing Pipenv

Pipenv can be installed via pip with the following command:

```
pip install --user pipenv
```

This command installs Pipenv for the current user. The `--user` flag ensures that Pipenv is installed in the user's directory and does not require system-wide installation.

1.3 Setting Up the Project Environment

Navigate to the project's root directory, where the `Pipfile` and `Pipfile.lock` are located, and execute the following command to install dependencies and set up the virtual environment:

```
pipenv install
```

1.4 Activating the Virtual Environment

Activate the virtual environment created by Pipenv using:

```
pipenv shell
```

1.5 Troubleshooting Python Version Errors

If you encounter an error about an unavailable Python version, such as:

```
Error: the specified Python version (3.8) is not available on your system.
```

It is recommended to use `pyenv` to manage multiple Python versions. Installation instructions for `pyenv` can be found at the pyenv GitHub repository.

After installing `pyenv`, you may need to restart your shell or terminal to ensure `pyenv` and `pipenv` are correctly added to your PATH.

When `pyenv` is installed, running `pipenv install` again will prompt Pipenv to use `pyenv` to install the missing Python version. Confirming this allows Pipenv to manage the required Python version for the project automatically.

1.6 Conclusion

This guide provided instructions for setting up your project environment with Pipenv, including installing dependencies and resolving Python version issues with `pyenv`. For additional information, consult the Pipenv documentation or community forums.

CHAPTER TWO

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