**Tools Installed:**

1. Python
2. Python pipenv -> pip install pipenv
   1. To install all the related dependencies on it’s own
3. Python python-dotenv -> pipenv install python-dotenv
   1. Reads the key,value pair from .env and adds them to environment variable. It is great of managing app settings during development and in production using 12-factor principles.

To activate the pipenv shell:

pipenv shell

**Notes:**

**.env file:**

* When we run flask application, it reads the .env file and add the key-value paired entries in the Environment variable.
* In rest of the places in the application, we can read these values from the set environment variable.
* So basically it will act as a single place holder, where change of things in this place will change everywhere.

**SQLAlchemy:**

Using raw SQL in Flask web applications to perform CRUD operations on database can be tedious. Instead, **SQLAlchemy**, a Python toolkit is a powerful **OR Mapper** that gives application developers the full power and flexibility of SQL. Flask-SQLAlchemy is the Flask extension that adds support for SQLAlchemy to your Flask application.

**Install** flask-sqlalchemy

pipenv install flask-sqlalchemy

Configure DB tables:

from short\_url import create\_app

from short\_url.extensions import db

db.create\_all(app=create\_app())