1. **Flask**

pip install flask

1. **Flask-WT Forms** [comes along with **wtforms** ]- (extensions)

To work with forms and perform complicated tasks related to them like password cross-checking and valid emails, validation checks that the user enters info correctly.

*“wtforms” package is automatically installed along with the “flask-wtf” package*.

pip install flask-wtf

1. **Email\_validator**

To validate emails, this might sometimes not be present in your wtforms\validators.py file, so always advised to check whether it is installed or not before making forms.py file

pip install email\_validator

1. **secrets**

It is a built-in module to generate a random secret key to protect our application against modifying cookies and cross-site requests, forgery attacks, etc.

1. **SQL Alchemy**

It is an ORM which stands for Object-Relational Mapper

What does it do? It allows us to access our database in an object-oriented way.

We can also use different databases without changing our python code.

For that, we just need to pass different database URL for SQL Alchemy to connect with,

But all the code to create the database will be the same.

We will use an SQLite database for development and when we are ready to deploy the application we will use a Postgres database for production.

pip install flask-sqlalchemy

*There is a regular ‘sqlalchemy’ package as well but we will use a flask specific extension ‘flask-sqlalchemy’ that provides some useful defaults and helpers for a flask application.*

1. **Tree (Optional)**

It is a command-line tool that allows us to print out our package structure in the command line.

pip install tree

1. **flask-bcrypt**

Way to hash passwords.

It is a hashing algorithm extension for securing user login details in our database.

pip install flask-bcrypt

1. **flask-login**

It is a very easy to use extension to create a login system to manage user login and logout.

It makes very easy to manage user sessions.

pip install flask-login

1. **Pillow**

Used to resize large images in our file system to save storage space in our database.

pip install Pillow