Explaination of how User Profile works:

The User profile system consists of:

* Database User table.
* Forms use and tools for viewing user information and direct messages
* A pluggable backend system

The system is using SQLAlchemy to access and manage data in the SQLite database. SQLAlchemy is adapted into pythonic domain language.

In the SQLALchemy python code file, Session is established to connect with the database and represents for all objects you’ve loaded or associated with it during the lifespan. The Session includes add() method, commit() method. add() is use to place instances in the session. commit() is use to write changes to the database.

Controllers consists of the python code of the user proflie. Those forms are using Flask as a microframework, which is using jinja as a template engine.

In the Flask code, the url\_for() function will build a Url for a specific function. The render\_template() function will render a HTML file which base on the jinja and html code. The get\_flashed\_message() passes a message of the next request, which generally is a template.

The templates folder consists of main.html and user\_Profile.html which are base on jinja and html code. The CSS of the html files will be using the bootstrap library.

Also, the user profile system is using the services package, which can pop up a notification when a user receive a direct message.

Controllers file, routes.py, templates file are all included in app file.