**Detailed Description for the High-Level design**

**Template package**

The Templates package includes three html files, which are main.html, login.html, registration.html. Those files are all written in html and using jinja to add control statements, including get\_flashed\_message(), url\_for(), render\_template():

**-get\_flashed\_message will passes a message o the next request, which generally is a**

**template.**

**-url\_for() will build a url for a specific function.**

**-render\_template will render a HTML file which base on the jinja and html code.**

In this Templates package, we use ninja’s template inheritance feature, which allows us to move the parts of the page layout that are common to all templates and put them in a main template from which all other templates are derived.

**Controllers package**

The Controllers package consists of three parts of the system, which are Login, Logout, Register. Those are written in python programming language.

**Login and Register** both have a **get()** function and a post() function.:

**-The get() function will return a unique identifier for the user.**

**-The post() function will summit username and user password in the HTTP body.**

These two controllers are all using a function called **url\_for()** to redirect a user to another webpage. Also, The routes.py file imports the methods for each of the GET and POST requests that the users asks for.

**Logout** has a **post()** function to tell the server that it wants to post some new information to the URL and that the server must ensure the data is stored and only stored once.

**SQLALchemy**

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, delete() method.

**-add() is use to place instances in the session.**

**-commit() is use to write changes to the database.**

**-delete() is use to place an instance into the Session’s list of objects to be marked as**

**deleted.**

**Bootstrap package**

The Bootstrap package is use for cascading style sheets. It describes how HTML elements are to be displayed on screen, paper or other media.