Note

**Request and Responds**

The html transmission between client and server uses two protocol: request and responds. Request is invoked by user/client. User send the request and ask the service from services. Request has a few functions such as GET, POST, DELETE, PUT and so no. GET and POST are two most popular functions.

Get sends request to server for information. Get usually involves in requesting data from a specified resource. But POST can send data to server to process a specified resource. Get seems passive and POST is a little active. Server use respond to reply user's request and provide the corresponding service.

**Validate user's input**

Validate user's input is very important. User can input strings which may tampering the website, change the states of website, or get sensitive information.

One example is HTML tamper attack. I use "autoescape=True" to change user's html tag into the plaintext form such that the symbol "<" will be convert into &lt;.

Another example is SQL Injection attack. User can add special string to execute SQL query if I do not check the input string and filter out special symbols.

**Website Template**

A website may have a lot of pages. Each page may share the same header, navigation bar, font, and footer. If we write HTML and CSS for each page, it will take plenty of time. HTML template provide a template for couple of pages. For example, I use python to generate HTML template. I use the base.html as template, and provide service for 6 other pages: index.html,photo.html,registration.html,about.html,members.html. HTML template save me a lot of time not only generate HTML page, but also modify HTML pages