**PROJECT 1**

**CSE – 5344**

**Web Server and Client**

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Table of Contents

**Project Specification2**

**Project Behavior3**

**Project Execution Details4**

**References5**

* **Project Specification:**
* **Operating System:** Microsoft Windows 10
* **Browser**: Google Chrome Version 46.0
* **Development Platform:** Python 2.7
* **Software used:** PyCharm JetBrains IDE
* **Program files**:
* Source Code Files: WebServer\_Client.py
* **Project Behavior**

1. Sockets are created and connected to the server and client.
2. Multi-threaded web Server can handle multiple client requests simultaneously.
3. Client requests a webpage to the server using a port number (default - 8080).
4. Sockets are used to create Server, Bind it to a port and start Listening requests from Web Client
5. Server processes the client request.
6. The Server works correctly with GET and POST requests.

* **Program Running Details**

1. Launch the workspace for JetBrains PyCharm IDE
2. Open a new project in the PyCharm IDE and copy all the python source code files to the created folder of the project.
3. First, Run the Server side code by clicking on the Run Configuration Selector.
4. Then, open the browser and type: localhost:8080/home.html
5. When the website is visited, the program displays a log of status and content of messages from the server.
6. Also, messages sent / received by the Client to / from the Server are displayed correctly.

* **References**

1. <http://ilab.cs.byu.edu/python/threadingmodule.html>
2. <http://ilab.cs.byu.edu/python/threadingmodule.html>
3. <http://stackoverflow.com/questions/27218415/python-socket-programming-with-multiple-threads>
4. <https://docs.python.org/2/howto/sockets.html#creating-a-socket>
5. http://www.tutorialspoint.com/python/python\_networking.htm