Client and Server Communication Project

**Project Description**

Develop two Java software applications: **Client** and **Server**. Develop the Client with the capability to request the current time from the Server. Create a GitHub repository for the project and submit your project by emailing the URL to [travis.rennemann@perspecta.com](mailto:travis.rennemann@perspecta.com) for review. Please see the Ruberic for evaluation criteria.

**Client Requirements**

1. The Client shall have a graphical user interface (GUI).
2. The Client shall use HTTP GET to communicate with a RESTful endpoint on the Server.
3. The Client’s GUI shall enable the user to specify the Server’s URL.
4. The Client’s GUI shall provide a way (such as a button) to request the time from the Server.
5. The Client’s GUI shall display the time returned from the Server.

**Server Requirements**

1. The Server shall be a Java Spring Boot web application.
2. The Server shall listen for a request to get the current server time and return the value in ISO 8601 format with the time zone set to Coordinated Universal Time (UTC).
3. The Server shall use Java 8 or higher and the Spring Boot library.

**Common Requirements for Client and Server**

1. The Applications shall execute on a Windows 10 or Ubuntu Linux operating system.

**Communication Overview**

Client

Server

Time request

Time response

Figure 1: Client and Server Communication Overview