***Client-Side / Server-Side***

***A web design team is developing a web application for the 2016 Rio Olympics Games. The application will provide bulletin board, information, maps, hotel information and updates on the event timetables and results. Explain how client-side and server-side web technologies may be used to develop the application. Give examples of each technology.***

Most websites will use both client-side and server-side technologies, though each one has its advantages and disadvantages and either can do things the other cannot. To develop this application there are certain things which will have go to server-side or client-side which are as follows:

**Server-side**

Service-side makes a page dynamic, which means it can be updated without the website having to be taken down. Server-side accesses a database to return the requested information back to the user.

An example of client side scripting is PHP and MySQL with HTML mixed with the program code.

The following examples will be used in the server-side of the website:

* **Bulletin board –** The bulletin board will be processing data regularly and will have to be constantly updated as the information is inputted into it, making server-side a must for the bulletin board.
* **Event Information –** The event information will be providing information regarding the events which include the time, outcome, and information regarding it. As events will be occurring every day it will have to be updated very regularly which would make it need to be dynamic so that the information can be updated to announce the winner/outcome of each event.
* **Updates on event timetables and results** – Because they will have to be updated very often it will have to be dynamic, which will make it suitable for server-side.

**Client-side**

It is referred to as the front-end of the website and it requires user interaction.

Client-side typically uses javascript.

The following examples will typically be used in client-side of the website.

* **Hotel Information –** The information for hotels do not need to be interactive and will remain static, making it suitable for use in client-side.
* **Maps** - Maps will not need to dynamically update often because they are mostly definite and maps will not undergo major changes on a regular basis with the user been able to interact with the map to drag it around the look through locations, requiring a user input, making it suitable to be used with client-side.

**Conclusion**

The website will be making use of both client-side and server-side to a good extent. I would recommend using PHP for the server-side of the website, MySQL for the database and HTML for the back-side of the website. The front-side of the website should use Javascript to make be able to make it interactive with the User.