

Where does the information come from?

Information requests will originate from the client, be processed by the server and new information will be returned to the client. This will occur in bookings and room searches/queries.

- **What form should it take?**
 - Information exchanged between the client and server will be related to searching and booking. There will be two types of searches, one related explicitly to rooms and one related to hotels. Where, Hotel searches can be done on the client side and room searches done on the server side at clients requests. Bookings will act similarly to room searches, where the client will submit a booking to the server where it can be processed and the database of vacant/used rooms can be updated.
- **If the information is on the server, what will the client need to send to retrieve that data?**
 - The data on the server will be retrieved through SQL requests. The mechanics of these requests will be invisible to the client as it will be translated from information the client enters into fields on the website.
- **If the information is on the client, how will it be sent to the server?**
 - Information will be collected from the client through their interaction with the website itself. When specific detail is needed such as which hotel, how many people to a room etc, then the client will have fields available to them to specify such details. This will generate requests to the server which will deliver the appropriate data to the client.
- **Does all information need to be stored on the server?**
 - Not all the information needs to be stored on the server. Sensitive information such as booking and client details will be stored on the server by the use of sessions to protect clients privacy.
- **What processing needs to be done to make the data useful?**
 - Different data will be processed in its own way but simply the layout of the data, which data is presented and when is what makes the data useful to the user. An example of this is that there is no need to give room availabilities until the user has narrowed down which hotel in which country/city they want to use, even then this data is not needed or useful until the user gives further detail about what type of room they want and for what period.

Below illustrates the server interactions:

