# Data Plan

**How data will be stored?**

* Data should be stored on a database where separation will be required between each as for security reasons
  + An example is that the customer details shall be in a single row

**What data will be sent?**

* Usernames and passwords, also keeping a counter for incorrect attempts.
* User account details: personal, banking (maybe?), current booking details, pervious bookings (maybe)
* Business account details:
  + Professional/Corporate details
    - Business Name
    - Direct business website information
    - Booking interaction with business connection(sometimes companies have their own booking services so to make up another interface from our website)
  + hotel details
    - Name
    - Location
    - Hotel value
    - Housing
    - Additional services
* Hotel information: rooms, cost, availability based on bookings made

**What data processing is needed?**

Server-side processing

* When searching/filtering for hotel searching; this will be done on server side to minimising reliance on client computer
* Searching for usernames then confirming correct password
* Some processing feature which will convert from the searched list of hotel rooms to pins on the google map API
* Adding to cookie the changes e.g. bookings to cart not yet bought
* Getting openID for other API login details

Client-side processing

* Cookie will note session searches (optional)
* Cookie expiration once process is closed

**Interactions between client and server?**

Client to Server interactions

* Creating an account will require the data to be packaged and sent up, so that the server can add the data to the database
* Logging in is a client to server to client interaction, where input is sent to the server
* Booking a room will require the client to send data to the server so that the hotel data is altered
* Email confirmation access by the same unique URL generation

Server to Client interactions

* Counter incrementation when failed attempts to log in
* Fetch data requirements for the client if the client details match the database