Data Plan

Instructions:
-The main page search bar takes an input and the page that lists the hotel details shows up.
-login and sign up make their respective pages load
-maps button takes you to the maps page, from there you can input a city into the search bar and markers will pop up on the map. The markers will be hotels in that city (currently only Adelaide hotels are in our site but more can easily be added).
-clicking the map marker will open an info window that shows the name and price and buttons leading to the details page and the book now page.
-"placeholder" icon in the top left takes you to the home/main page when clicked.
-back button returns you to your previous page

Login
- User puts in username and password etc..
  (IF we want user to stay on same page we use AJAX)
    o Send AJAX post request in JSON format
    o Server needs to verify
    o Something on the server to compare to something from database from file
    o Send AJAX response to the post request, response contains/includes a session + any info we want back (e.g account info)
- User can now do things a logged in user can do
- Same page appears but login button says username instead

Sign-up
- User puts in username and password etc..
  (IF we want user to stay on same page we use AJAX)
    o Send AJAX post request in JSON format
    o Server needs to verify
    o Something on the server to compare to something from database from file so that the username doesn't already exist
    o Inserts username/password into a database
    o Send AJAX response to the post request, response contains/includes a session + any info we want back (e.g account info)
- User can now do things a logged in user can do
- Same page appears but login button says username instead

Booking
- What are we putting in the form: dates, number of people etc.
    o Send a post request using JSON
    o Body of post request is parsed and key values are inserted into a database.
    o We need to send a response to request with the new web page
- User sees their booking confirmation

Map search result

- User inputs a city they want to search for
    - AJAX get request in JSON format
    - Input is matched up with a key value from the hotel objects
    - Send AJAX response to the get request which will be a function call to a function that displays markers on the map with the parameters being the array of hotel objects that match up with the input.
- User sees hotel markers pop up on the map.

Search results
- Information is received from a function that takes the keyword from search and returns an array of Hotel objects.
    - The array can be stored on the server and used for a number of functions that will send that data to the client.
- The information will be used to display in two areas: on the map, and on a list of hotels with some info on another page. When the user presses buttons to show either of these, the following will happen:
    - a POST request will be sent to the server
    - the server will send the information to be processed client-side and displayed
- The keyword for search will be sent to the server with the request
- Does all information need to be stored on the server?
- The response from the server will most likely be an array of the hotels from search. This information will need to be processed client-side to populate the map's marker's info windows, and the information about each hotel when listing the results.