**Master List of Features**

Required by Susan (Client):

* Enable 4 main user types to log into the web system (tourists, students, businessmen, admins)
* Each user should be able to view information about other user types but only for a short amount of time
* Existing users should be able to log back in using a username and password
* Tourists will have access to: hotels and city information
* Students will have access to: colleges, libraries and city information.
* businessmen will have access to: view hotels, industries and city information
* City information = Parks, Zoos, Museums, Restaurants, Malls. The colleges, libraries, industries and hotel information is separate from the city information.
* Admins will have the ability to : add information about the different locations stated previously.
* Administrator accounts should be created on a separate page accessed only by other administrators (Susan being the first and only administrator)
* The user should be able to sign up for their accounts via the welcome page accessed via their web browser using a unique username and password.
* The system should be designed so it can easily be expanded to add additional information. For example, city bus services, rail, government offices etc.
* For scalability the web system should show the ability to add other cities around Australia.

Client’s (Student) Additional Features:

* Interactive mapping system on web system (google maps integration?). This should feature icons on maps that help show locations and a key to describe icons. There should also be an ability to turn certain icons off and on.
* GPS assistance (either on the web service or linked out to another service)
* Link application to phone
* Link social media to web system
* Have recommendations based on filters (for example rating, popularity, price)
* Remember my username
* Links to different locations websites (for example museum links to museum website)
* Save locations and show paths previously taken.
* Calendar that can add events/ make notes with an events rundown for day / week / month / year
* Discounts, coupons, vouchers on application
* Interface that is personalised to user
* Live system information (e.g weather, deals, coupons, event times)

Developer’s Additional Features

* Data items should be managed in the database client by the admin rather than in the website. City information about each location should be stored in a database.
* The page for each location should be generated only once it has been queried by the user (one page for all locations)
* Remember user account preferences
* Search field should be structured so that the database can be easily queried (eg dropdown from city name rather than textbox)
* The create an account page should allow for users to add additional information about themselves (phone number, email, residential address)
* Administrators should also be able to upload a map.
* Information on locations generated when queried
* As both a design and functionality feature the use of preset features will be made (e.g dropboxes not textboxes)
* Database tables should not be structured based off the city but rather the location type (eg hotels) (scalability)
* Accounts should be securely stored in the database using hashed passwords
* When searching for a location data meeting the query should accurately be displayed