Semester Two Assessment One

# Task 1

* Identify the data needs of the web application, and outline the following information:
* What data needs to be submitted to the application’s database through the GUI?

First name, last name, phone number, email address and Facebook profile.

* What data needs to be retrieved by the application for display in the GUI?

First name, last name, phone number, email address and Facebook profile

* Explain how the following programming concepts will be utilised in this web application: (after web app is built, provide examples)
* Authentication and security.

Authentication in a web app is used by having a login section somewhere on the site that allows users to access different components on the site. Security is used in the login for users with different privileges. In the database when creating users, it is highly recommended to encrypt passwords with *md5*.

* HTTP.

HTTP stands for Hypertext Transfer Protocol and is one of the application protocols that is used for distribution, collaboration and hypermedia information systems. HTTP is also the foundation for communication for the World Wide Web. HTTP is used when a user sends a URL to a web browser, the browser sends a HTTP request to the server which is then displayed on the users screen.

* Session management.

A session is a sequence of HTTP request and response actions for the same user. Sessions are used to retain information about the user through multiple requests so that they don’t have to input information more than once in a session. A session is started usually at the start of a PHP code set, this is usually called a *global variable* and its syntax is $\_SESSION.

* Stateless/Stateful programming.

Stateless programming does not save any information that has been inputted by a user in a session, whereas stateful programming does. Stateful programming is used when information is saved to make user experience better, e.g. logins (saves information so that a user can access the site without having to log in multiple times in a session).