**Task 1**

**Identify the data needs of the web application, and outline the following information:**

The data needs of the application are to have information such as first name, last name and other information submitted to the database via a mix of GUI and PHP code.

The data that needs to be submitted is:

Fist name

Last name

Phone Number

Email Address

Facebook Profile

And the details above also need to be retrieved by the application to display it on the page.

**Explain how the following programming concepts will be utilized in this web application:**

**Authentication and security**

This web application using a secure login form that utilises php code and a database. The Authentication method used is when a user logs in the php code will check the database for the username and password entered. If the username and password are incorrect they will simply get an error message. If the username and password are correct a session is created so the user can now view pages they are use the session management.

**HTTP**

HyperText Transfer Protocol, HTTP is the underlying protocol used by the World Wide Web. HTTP defines how messages are formatted and transmitted, and what actions Web servers and browsers should take in response to various commands. When the users logs in, the web application sends a HTTP command to database to check if the username and password are correct. If the login information is correct the web application then sends a HTTP command to redirects the user to the portal page where they can access the contacts page or log out.

**Session management**

The web application uses sessions as part of its authentication and security setup. When a user logs in with a correct username and password they are then able to see protected content and redirect users who aren’t logged to the login page.

**Stateless/statefull programming**

This web application using statefull programming because the site is setup to record and save information that has been inputted.