

Senior Project  
Module 2  
Security Document

We will need to make sure the page is secure and the information is safe by finding something that we can use to encrypt the data for our page. By encrypting the data we will ensure that all the information on our page is safe and will not have to worry about the information being used against us or anyone involved in the database.

For our project, there will be a bit of sensitive data. Since our project will involve (hopefully eventually) Point Park students, any information relating to them that could be in our database such as courses, schedules, graduation progress etc. could be considered sensitive. We do not want to leak out any information about the students and have them add/drop courses on a non-secure network so we will need to make sure all of this is protected.

We can protect the data by making sure it is encrypted. We can ensure our data is secure if we use something along the lines of HTTPS. With HTTPS, you can see that a site is safe with the s at the end of a normal HTTP address, which stands for “secure” and the padlock to the left which of the address that shows that indicates an HTTPS connection is in effect. Through my research, I was able to find that HTTPS pages typically use one of two secure protocols to encrypt communications. These are SSL (secure sockets layer) or TLS (transport layer security). If these options are not obtainable for whatever reason we would simply need to find another alternative that does similar things such as encrypting the information for our page.