# Summary

The PMO Portal was created using Razor Pages along with ASP.NET Core 2.2 in Microsoft Visual Studio 2019. The programming language used was C#. It relies on the use of two NuGet Packages. These packages are were BCrypt.Net-Core 1.6.0 by Steve Donaghy and Microsoft Entity FrameworkCore SQL Server .2.4 by Microsoft for ASP.NET Core 2.2 Compatibility. It writes to the credentials database that stores all user login information. Login information consists of a user’s Net id or ID, in case for Sponsors, along with their password and name. Each user has their own login portal that redirects them to their respective role. They are redirected to a razor page that has developed for the portal. For example, Faculty users are Admins. Student users are Users. Student users are Viewers. Faculty users can view all GUI functionalities. They can view, edit, and delete all data such as project, student, sponsor data. Faculty members also have the functionality of adding users to the PMO Portal. Students can only view and edit their own data. Sponsors can only view their data such proposals. You are denied access if you try to log in to different role that you were not assigned to. For example, sponsors cannot log into faculty portal and only faculty member have the ability create new users. BCrypt.Net-Core is used to compare the password input by user on the portal to the hashed password stored on the data base. If they match, then they start a new session and are successfully logged in to their respective GUI role.