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| DMIT2590 – Capstone |
| NAIT Pathways Software Documentation |
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# System Installation

The NAIT Pathways application requires a few items to be set up before the system can function normally, however this setup process is relatively simple and can completed in a few easy steps.

## Installation Guide

The first thing that needs to be setup is the NAIT Pathways database, which can be found in the ‘GetNewestDatabaseHere’ folder. Inside this folder is a backup file that will allow the user to restore the database using SQL Server Management Studio. The file comes with all tables, procedures, and data implemented so there is no further management required once the database is restored.

The only other major step required is opening the project in visual studio and restoring the NuGet packages. This can be accomplished by simply rebuilding the project and Visual Studio will automatically restore these packages. Once this is complete the system will be ready for use and can be started by running the program.

## Administrator Credentials

Currently the system is set up to allow anyone to register an admin account, which allows for multiple users to easily access and test the system. This setup will need to be modified should NAIT decide to move this system into production and make it available to the public. Password reset can easily be accomplished by changing the login information for a user account in the database.

# Controllers, Entities, and POCOs

The NAIT Pathways application utilizes three separate controller classes that handle the distinct database operations that occur for each major category: Administration, Reporting, and Student Data. These classes make up the core search functionality of the system and modifying these areas will alter the data returned to the user.

## 2.1 Admin Controller

The Admin Controller provides all of the search methods for managing programs, courses, entrance requirements, preference questions, and so on. The majority of pages this controller impacts can be found in the Admin folder of the website file.

## 2.2 Report Controller

The Report Controller provides all of the search methods that will allow the user to retrieve data that can be compiled into reports. The majority of pages this controller impacts can be found in the Admin folder of the website file.

## 2.3 Student Controller

The Student Controller provides a variety of search and insert methods that return the search results based on the input provided by the user. This controller also houses insert methods that triggers upon searching for programs and logs the results into a metrics table. The page this controller impacts can be found in the Student folder of the website.

## 2.4 Entities

All of the entity classes that map the program to the database can be found in the DAL/Entities folder. These classes are responsible for mapping the database and should only be altered if modifications are being made to the database.

## 2.5 POCOs

All of the POCO classes can be found in the DAL/POCOs folder. These classes should only be altered if modifications are being made to the controller classes as changing the POCOs will disrupt or alter the normal functionality of the controllers.

# NAIT Pathways Pages

The Pathways program is separated into several different pages that operate independently of one another but are all directed towards the goal of generating search results for prospective students.

## 3.1 Account Pages

All of the pages that provide functionality of user credentials and login data can be found in the Account folder of the website file. These pages handle user registration, user login, and account management. These pages are very important as they impact the ability of a user to access the administration sections of the webpage.

## 3.2 Administrator Pages

All of the pages that provide functionality for the administrator roles can be found in the Admin folder of the website file. These pages are extremely important and handle all of the process outlined in the user manual. Altering these pages will change how the system performs inserts and updates on the data housed in the system database.

## 3.3 Student Page

There is only one page that contains the functionality for program searches and it can be found in the Student folder of the website file. This page is separated into several steps, which are outlined in comments on the ASPX webpage.

## 3.1 CSS and Styling Files

All of the CSS can be found in the Content folder and all of the images, icons, and thumbnails used in the site can be found in Images and Pathways folders.

# Entity Relationship Diagram

