**Project Management System (PMO)**

The CCSE has commissioned a Project Management System as a Spring 2020 capstone project. The PMO is intend as a data repository to record and store project details. Projects commissioned through the college of computing and Software Engineering include, Contracts for hire, research and capstone projects.

The Project Management System has been developed using Asp. NET Entity Framework CORE In Visual Studios 2019. We have used SQL Server Express and the LocalDB for development purposes. The Project Management System will be an important tool in managing project details, documents, sponsors and team assignments. The KSU CCSE PMO includes the following features:

* Managing Projects
* Managing Sponsors
* Managing Faculty Project Assignment
* Viewing Project Proposals
* Searching projects
* Querying/Exporting and Printing reports

**Project Management System Functionality and Description**

**This section gives a brief accounting of the basic components of the CCSE PMO:**

**Manage Projects Component:**

The goal of this component is to manage all functionality related to CCSE projects. In this component, all CRUD (Create, Read, Update, Delete) operation have been developed. These operations allow the administrator to manage and edit all projects commissioned through the CCSE and related departments.

**Functions of this component include**:

* Administrator can view a list of projects
* Administrator can view a list of all projects
* Administrator can sort, search and filter projects
* Administrator can add projects
* Administrator can edit projects
* Administrator can delete projects
* Administrator can view project details.

**Manage Sponsors:**

The goal of this component is to manage all CCSE project sponsors. In this component, all CRUD(Create, Read, Update, Delete) operation have been developed. These operations allow the administrator to record, view, manage and edit important Sponsor information. This includes the number of projects sponsored and the presence of any Non-Disclosure Agreements

**Functions of this component include**:

* Administrator can view all Sponsor related details
* Administrator can sort, search and filter Sponsors
* Administrator can add Sponsors
* Administrator can edit sponsor details
* Administrator can delete sponsors
* Administrator can view sponsors list

**Manage Project Proposals:**

The goal of this component is to view all CCSE project proposals submissions . In this component, all CRUD (Create, Read, Update, Delete) operation have been developed. These operations allow the administrator to record, view, manage and edit important proposal related information used for project reports. This includes the number of pros

* Administrator can view proposal related information
* Administrator can sort, search and filter proposals
* Administrator can add project proposal
* Administrator can edit project proposal
* Administrator can delete project proposals
* Administrator can see a list of project proposals

**Manage Faculty Assignment**

The goal of this component is to view and edit faculty project assignments. In this component, CRUD (Create, Read, Update, Delete) operations have been developed. These operations allow the administrator to record, view, manage and edit details relating to faculty project assignments. This includes the number of projects a faculty member is assigned to and what department they are in.

**Functions of this component include**:

* Administrator can view faculty assigned to the project
* Administrator can sort, search and filter faculty
* Administrator can add Faculty
* Administrator can edit Faculty details
* Administrator can delete Faculty
* Administrator can view faculty list

**Manage Student Assignment**

The goal of this component is to view and edit student project assignments. In this component, CRUD (Create, Read, Update, Delete) operations have been developed. These operations allow the administrator to record, view, manage and edit details relating to student project assignment..

**Functions of this component include**:

* Administrator can view students assigned to the project
* Administrator can sort, search and filter students
* Administrator can add students
* Administrator can edit student details
* Administrator can delete student
* Administrator can view student list