

PROG6212 PORTFOLIO OF EVIDENCE

Name: Khutjo Shepherd Excellent

Surname: Mamabolo

Student Number: St10438214

Year: 2

Group: 01

Documentation

The Contract monthly Claim System (CMCS) is a Software application developed to help Lecturers submit monthly claims that the Program Coordinator and Managers can assess, approve, and disapprove based on factors known to them.

The color choices for the CMCS are: Blue, Black, and White

- Blue: a calming color tone associated with being calm and relaxed.
- Black and White: Producing a somewhat Professional feel in the system

The database for the CMCS contains about five (5) Tables of which are the following:

- Lecturers,
- User (Management & Program Coordinators),
- Claims,
- Supporting Documentation,
- Claim approval status.

Within:

The lecturers table, it contains a primary key (Lecturer_ID) and no Foreign nor composite keys

The Claims table, it contains a primary key (Claim_ID) and a foreign key (Lecturer_Id) of which connects the Claims Table to the Lecturers table using a 1 is to many relationships where the lecturer may have 1 or many claims but a single claim can only contain only one lecturer.

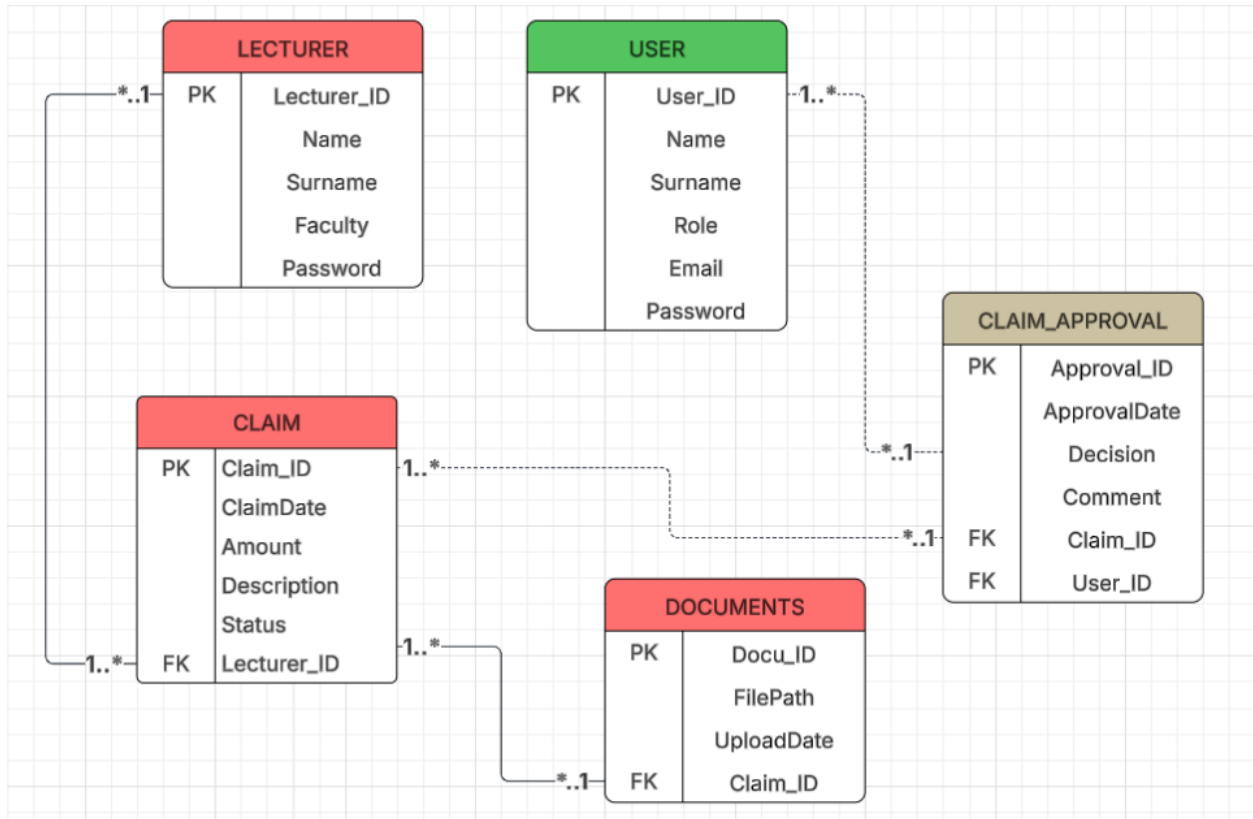
The Supporting Documentation table contains a primary key (Docu_ID) and a foreign key (Claim_ID) of which connects the Supporting Documents Table to the Claims table using a 1 is to many relationships where a Single Claim may have 1 or many claims but a single Document can only contain only one Claim.

The Users table, it contains a primary key (Lecturer_ID) and no Foreign nor composite keys and is Separate from the Lecturers table.

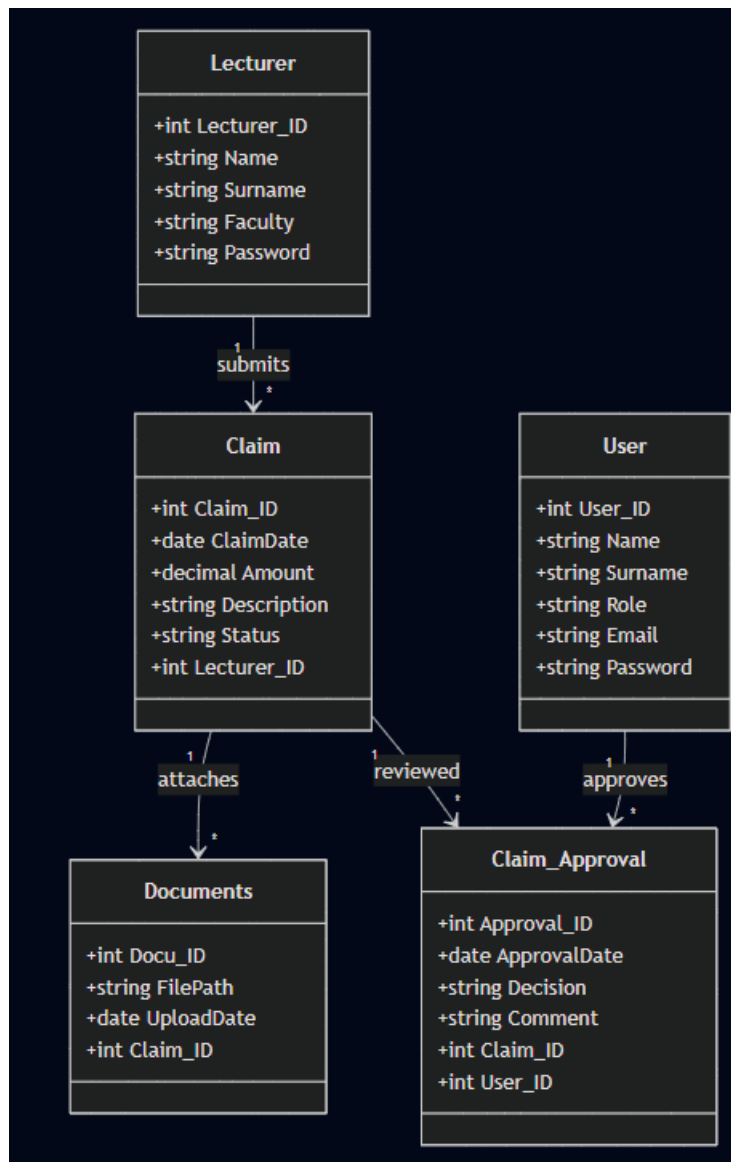
The Claims Approval table contains a primary key (Approval_ID) and 2 foreign keys (Claim_ID & User_ID) which connect the Claims Approval table to the Claims Table and Users Table using a 1 too many relationships.

The Constraints that I must keep in mind are that a single user must have only one role. And i have an assumption that the user will select the correct Role

Attached below is the UML Notation ERD for the Database for the database for the CMCS:



Attached below is the UML Class Diagram for the CMCS:



Project Plan: Contract Monthly Claims System (CMCS) Prototype.

Project Overview

Project Name: Contract Monthly Claims System

Duration: 16 Weeks

Team Size: 1 Developer

Tech stack: C# with .NET(WPF), SQL server