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# Contract Monthly Claim System (CMCS)

## Overview

The \*\*Contract Monthly Claim System (CMCS)\*\* is a WPF-based application that allows lecturers to submit claims for hours worked, which are then verified and approved by a coordinator or manager. The system includes features for document uploads, claim submission, approval, rejection, and claim status tracking.

### Features

- \*\*Lecturer Claim Submission\*\*: Lecturers can submit claims for the hours worked, along with supporting documents.

- \*\*Document Upload\*\*: Upload PDF, DOCX, or XLSX files as supporting documents. File size is limited to 5 MB.

- \*\*Claim Approval/Rejection\*\*: Coordinators or managers can approve or reject claims.

- \*\*Amount Calculation\*\*: Automatically calculate the total claim amount based on hours worked and the hourly rate.

- \*\*Claim Status Tracking\*\*: Claims can have statuses such as 'Submitted', 'Approved', or 'Rejected'.

- \*\*File Viewing\*\*: Uploaded documents can be viewed directly from the UI.

### Prerequisites

- \*\*.NET Core SDK\*\*

- \*\*Visual Studio\*\* with WPF support

- \*\*Microsoft Windows OS\*\*

### How to Run

1. \*\*Clone the repository\*\*.

2. Open the solution in \*\*Visual Studio\*\*.

3. Restore NuGet packages if required.

4. Run the application by clicking the "Start" button in Visual Studio.

### File Structure

- \*\*MainWindow.xaml.cs\*\*: The main logic for handling claim submissions, approvals, and document uploads.

- \*\*Claim.cs\*\*: Defines the `Claim` class that holds information about a claim.

- \*\*MainWindow.xaml\*\*: Defines the user interface (UI) layout and elements for the Lecturer and Coordinator/Manager tabs.

### How to Use

#### Lecturer Tab:

1. \*\*Fill in Claim Details\*\*:

- Enter `Lecturer ID`, `Lecturer Name`, `Hours Worked`, and `Hourly Rate`.

- Select the date worked using the date picker.

2. \*\*Upload Supporting Documents\*\*:

- Click the "Upload Document" button and choose a file (PDF, DOCX, or XLSX format, max size 5 MB).

- The uploaded file name will be displayed after a successful upload.

3. \*\*Calculate Amount\*\*:

- Click the "Calculate Amount" button to calculate the total amount based on the entered hours and hourly rate.

4. \*\*Submit Claim\*\*:

- Click the "Submit Claim" button to submit the claim.

- Ensure all fields are filled before submission.

#### Coordinator/Manager Tab:

1. \*\*View Claims\*\*:

- The list of submitted claims is shown in a list view, including the lecturer ID, name, hours worked, and uploaded file.

2. \*\*Approve/Reject Claims\*\*:

- Select a claim and click "Approve" or "Reject". Optionally, provide comments when rejecting a claim.

3. \*\*View Uploaded Documents\*\*:

- Click on the uploaded document file name to open the document using the default application associated with the file type.

### Error Handling

- \*\*File Size Exceeded\*\*: If the uploaded document exceeds 5 MB, an error message will be displayed.

- \*\*Invalid File Type\*\*: Only PDF, DOCX, and XLSX file types are allowed for uploads. Other formats will trigger an error.

- \*\*Invalid Input\*\*: Lecturers are prompted with error messages for invalid inputs in fields like `Lecturer ID`, `Hours Worked`, and `Hourly Rate`.

### Dependencies

- \*\*Microsoft.Win32\*\*: Used for file selection dialogs.

- \*\*System.Diagnostics\*\*: For opening files with the default application.

- \*\*ObservableCollection\*\*: Used for data-binding the list of claims to the UI.

### Future Enhancements

- \*\*Role-Based Access\*\*: Separate roles and authentication for lecturers and coordinators/managers.

- \*\*Claim History\*\*: Allow lecturers to view previously submitted claims and their statuses.

- \*\*Notifications\*\*: Notify lecturers when claims are approved or rejected.

### Contact

For any issues or feature requests, feel free to contact the development team.