**PROG6212 Part 2 – Lecturer Claim Management System**

**Overview**

This web application allows lecturers to submit part-time payment claims and upload supporting documents. Managers can view, approve, or reject submitted claims. All data is stored locally in encrypted JSON format.

**Features**

* Lecturer claim submission with validation
* File upload with type and size restrictions
* AES encryption for claim data
* Claim tracking with status updates (Pending, Approved, Rejected)
* Manager approval and rejection functionality
* Secure file download for uploaded documents

**Technologies Used**

* ASP.NET Core MVC (.NET 8)
* C#
* Razor Views
* Bootstrap 5
* System.Text.Json
* AES Encryption

**Project Structure**

* **Controllers**: Contains logic for claim submission (ClaimController) and management (ManagerController).
* **Models**: Defines the Claim data model with validation attributes.
* **Views**: Razor pages for claim creation, listing, and management.
* **Data Folder**: Stores encrypted claims.json file.
* **wwwroot/uploads**: Stores uploaded supporting documents.

**How to Run**

1. Open the project in Visual Studio.
2. Build the solution and run using IIS Express.
3. Submit a claim from the Lecturer view.
4. Review and manage claims from the Manager view.

**Security Measures**

* Claim data is stored in an encrypted JSON file.
* Input validation and restricted file uploads are enforced.
* No sensitive information is displayed directly in plain text.

**Author**

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