

Team Name: Automated FIT Transfer Credit Evaluator

Automated FIT Transfer Credit Evaluator

Software Design Document

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Date: 09/30/2024

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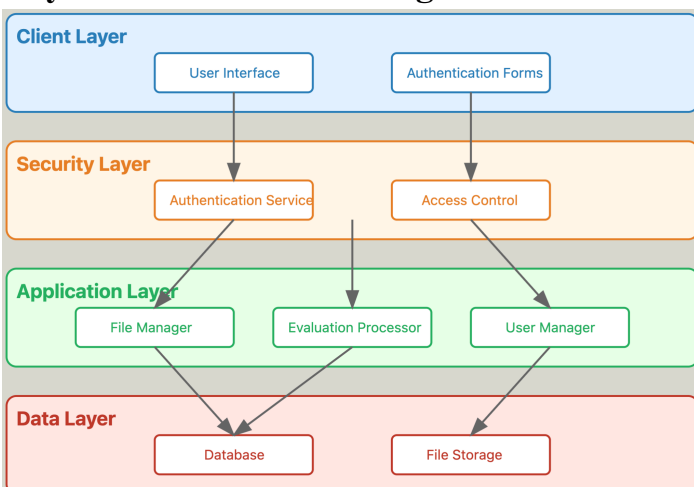
1. Introduction

The Automated FIT Transfer Credit Evaluator is a web application designed to evaluate transfer credits from other schools against credits from Florida Institute of Technology. This system will take one input containing transfer credits from a different university and another input including the link to the desired FIT course catalog. The course evaluator will then compare the transfer credits to the FIT catalog to determine which classes have an FIT equivalent and which don't. The users will then be provided with an output file showing them their potential credit transfers. This system will be secured by using a two tier system so that only people with admin access are able to see sensitive information about or within the website.

2. System Overview

The Automated FIT Transfer Credit Evaluator allows students, faculty, and other university staff to evaluate transfer credits from other universities to FIT course catalogs in a more efficient way. The application will include features such as user authentication, different levels of access dependent on user type, file upload, automated credit evaluation, and an output including the results of the evaluation. The two tier system, which includes an admin and users, ensures that users cannot access any sensitive information or information about the web application itself. Users can upload a .txt file with their transcripts as well as a file with the link to the desired course catalog to be compared. Admin can access backend processes and monitor the activity of the system. The front end of this tool is web based, which will interact with the backend which will handle all of the file processing, evaluation of the credits, and database management. The website itself will be built on a Replit platform which will allow us to use html and css frontend and has backend support for languages such as Python or Node.js. Data storage will be managed through MySQL or SQLite databases which will ensure that data management will be secure and efficient.

3. System Architecture Diagram



4. Database (ER Diagram, tables, keys)

