

CSCE 310 – Database Systems

Spring 2023 – Section 500

Group 5: Final Database Design

Submitted by:

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Project Description

We will be designing a web application that will help students manage their time and documents. This application will have a calendar for their classes, and any other work they might want to schedule. It will also have a database where they can upload relevant documents for school (for organization purposes). It will also have a profile page (with login capabilities), where they can store data such as: their degree, their current hours, their gpa, etc. Lastly they will be able to leverage a comment feature to mark up their documents and items on their calendar.

Project Files

Below is a list of our project files. We have a very small number of files because Main.py has everyone's code in it. The functions to bring up the pages are what we worked on rather than a page in its own file. Underneath the files show project functions to show who contributed to each page.

File Name	Features of File
Authtest.py	Login and Registration
Main.py	Main page with functions to display all other pages

Function Name	Features of File
show_profile_page	View, Update, or Delete User's Profile
show_calendar_page()	View, Add, Edit, and Delete Appointments
show_file_storage_page()	View, Add, Edit, and Delete Files
display_chat()	Creates chat box menu popup where placed in code to create, edit, delete comments

Project Roles

Below is the division of features for our project. The features are short-hand for the Functionality sets that were given in the original Project Vision and Description rubric. Also, if any of the tables listed have subtypes, then that member is also assuming responsibility for those sub-types.

Name	Functionality Set	Features	Tables	Files/Functions
Rishabh Kumar	1	Registration Login Methods Account Updates Account Deletion	USER ADMIN TUTOR STUDENT	Authtest.py Main.py
Daniel Link	2	Create Appointment Edit name of Appointment Delete Appointment View Appointments	APPOINTMENT ATTENDEE	Main.py show_calendar_page()
Brandon Moon	3	Create, view, update, and delete files (items)	FILE	Main.py show_file_storage_page()
Lucian Perniciaro	4	Create, view, update, and delete comments	COMMENT (and sub-types)	Main.py display_chat()

Lucian worked within the file storage page as well as within the calendar page since both required comment functionality.

Entity Relation Diagram

This section includes the initial design of our Entity Relation Diagram and our final design after we finished coding. All ERDs were made on an online whiteboarding tool called Miro.

ERD Design Changes

Besides some typos on the Attendee and Appointment table, nothing major has been changed to the intended design. The only change was in the appointment table, the ADDRESS field had to be changed to LOCATION since ADDRESS is a reserved keyword in MySQL.

ERD Initial Design

