ISTE 330.02
Group 5

Part 2 Directions

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README

Setup:

This is the set of instructions needed to run and navigate our project submission for Part 2.
Before attempting to run the Java files, make sure to run 330finalgroup5.sql in your MySQL
terminal.
This will initialize the database, as well as insert some starter entries into all the tables,
including students, faculty, some interests and abstracts, and account info.
By default, all the starter entries' passwords are 'password'.

When you're ready to run the program, make sure you run InteractionGUI.java, not
DataLayer.java, since it does not contain a main method.

Program Usage:

When you first run InteractionGUI.java, you will see the Database connection screen.
Here enter the username, autofilled to 'root' by default, and the password for MySQL, which will
autofill to 'student' by default.

Proceeding from here, you will see 3 buttons, Professor, Student, and Guest. Guest will take
you straight to the Guest action menu, since they do not have accounts.
Select which applies to you.

Select Login or Sign Up to either login or create a new account.
        Login will prompt you for the username and password of an entry that already exists
within the database.
        Signup will prompt for personal info, for faculty this includes username, password, name,
phone, email, building and office number.
        For students this just includes username, password, name, and email.

As long as the username is not a duplicate of an existing username, this should create a new entry in the accounts table, and either faculty or student respectively.

Once you're logged in as a user, you will be presented with a menu for further actions to take.

Here are the options for all user types:

Faculty
Insert Abstract
Insert Interest
Find Match
Exit

Student
Insert Interest
Find Match
Exit

Exit will exit the program

Guest
Find a Student
Find a Professor

Insert abstract will present you with a GUI with text boxes to input a Title and an abstract body.
It is recommended that you just copy-paste the abstract into the field as it is very small.

Insert Interest will present a GUI to prompt the user for a interest to input.

Find Match will present a GUI prompting the user for a search term.

Find a Student/Professor works the same way but for Guest users only.

Upon successful insertion of abstracts or interests, a success message will be displayed, and vice versa with failure.
Find Match/search will also output its results in a GUI message.

The user will be returned to the Further Actions menu for their account to continue searching or inserting, or exit the program.

You can also press the 'x' button in the pop-up windows to close them and gracefully exit the program.

Input Max Character Limitations:

    Accounts:
        Username: 20 characters REQUIRED
        Password: 40 characters REQUIRED
        Name: 30 characters REQUIRED
        Phone: 20 characters
        Email: 30 characters
        Building: 40 characters
        Office: 20 charactes

    Interests and Abstracts:
        Abstract Title: 100 characters REQUIRED
        Abstract Content: MEDIUMTEXT
        Interest: 40 characters REQUIRED

    Search Term: 30 characters