

Final Documentation

ISTE 330-01

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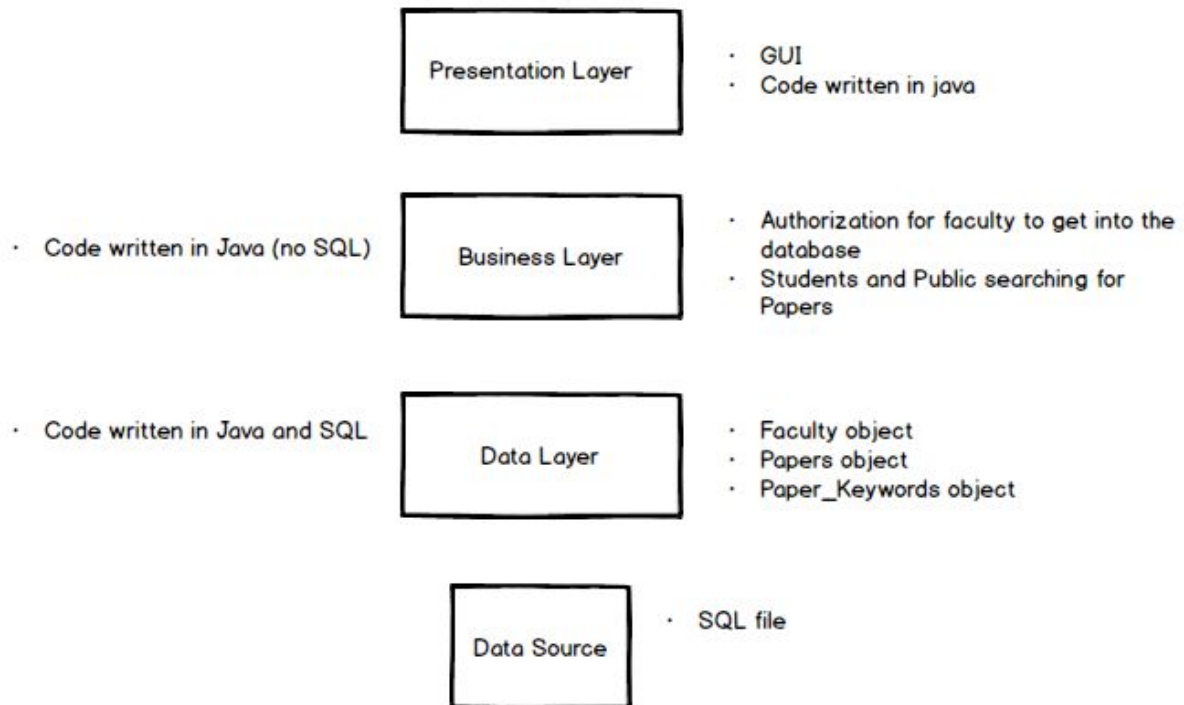
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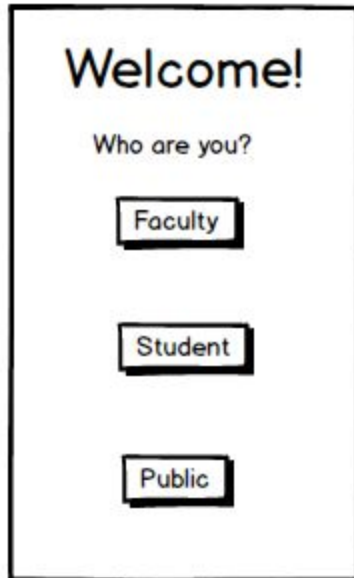
4.3 Exit

Overall Architecture



Interface

Start of Program



A rectangular window with a black border. Inside, the text "Welcome!" is at the top in a large, bold, black font. Below it, the text "Who are you?" is in a smaller, regular black font. At the bottom, there are three rectangular buttons stacked vertically, each with a black border and black text. The buttons are labeled "Faculty", "Student", and "Public" from top to bottom.

Welcome!

Who are you?

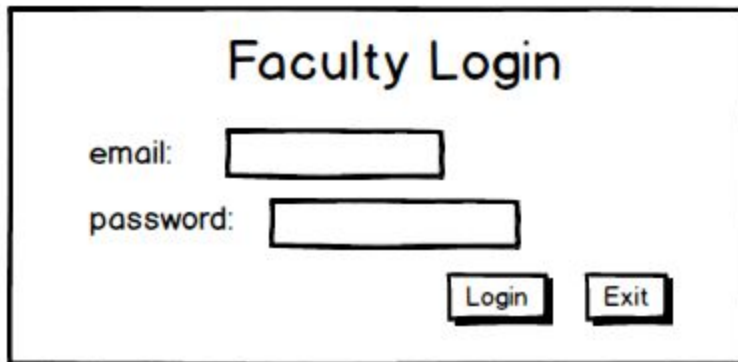
Faculty

Student

Public

The first thing that shows up when the program is started is the welcome page. There are three options: Faculty, Student, and Public. The user can pick their option depending on their occupation.

Faculty Login Credentials



A graphical user interface for faculty login. It features a title "Faculty Login" at the top center. Below the title, there are two input fields: one for "email:" and one for "password:". To the right of these fields are two buttons: "Login" and "Exit".

When the faculty button is clicked, a GUI opens up for login authentication. Both the email and the password should be matched to the credentials on the database in order for them to login successfully.

Faculty Login Credentials Fail



An error dialog box with a title "Error!". Below the title, it displays the message "Incorrect username/password. Try again". At the bottom center, there is an "OK" button.

If user enters an incorrect username or password, an error JOptionPane is displayed with the error message.

Faculty Login (idea #1)

Welcome Faculty!

Id	Title	Abstract	Citation
1	Title	Abstract	Citation
2	Title	Abstract	Citation
3	Title	Abstract	Citation

Title

Abstract

Citation

Keyword

Update

Insert

Delete

Exit

There will be a list of all of the papers at the top of the GUI. Faculty members can scroll up and down to view the entire list. There will JLabels and JTextFields for faculty to input their values. Depending on their values and depending on the the button they choose on the right (update, insert, delete), the list gets changed or updated (refreshed).

Faculty Login (idea #2)

Welcome Faculty!

Title	<input type="text"/>
Abstract	<input type="text"/>
Citation	<input type="text"/>
Keyword	<input type="text"/>

Faculty can input their values with the appropriate JLabels. Depending on what they want to do with the database, they can click associating button. To view a list of the papers, there is a separate button to view the papers.

Faculty Login (idea #2) - View Papers Button

List of Papers			
Id	Title	Abstract	Citation
1	Title	Abstract	Citation
2	Title	Abstract	Citation
3	Title	Abstract	Citation
4	Title	Abstract	Citation
5	Title	Abstract	Citation
6	Title	Abstract	Citation
OK			

UI displayed for faculty members or students that choose to view a list of the papers.

View Speakers Button

List of Speakers			
Id	Title	Abstract	Citation
1	Title	Abstract	Citation
2	Title	Abstract	Citation
3	Title	Abstract	Citation
4	Title	Abstract	Citation
5	Title	Abstract	Citation
6	Title	Abstract	Citation
<input type="button" value="OK"/>			

UI displayed for public that choose to view a list of the speakers.

Student (search)

Welcome Student!

Find paper based on:

Topic:

Title:

Faculty:

Keyword:

Student can search papers based on topics, title, faculty or keyword. After choosing the paper, they can collaborate with the faculty member. Or else they can exit.

Public (search)

Welcome Public!

Find speaker based on:

Topic:

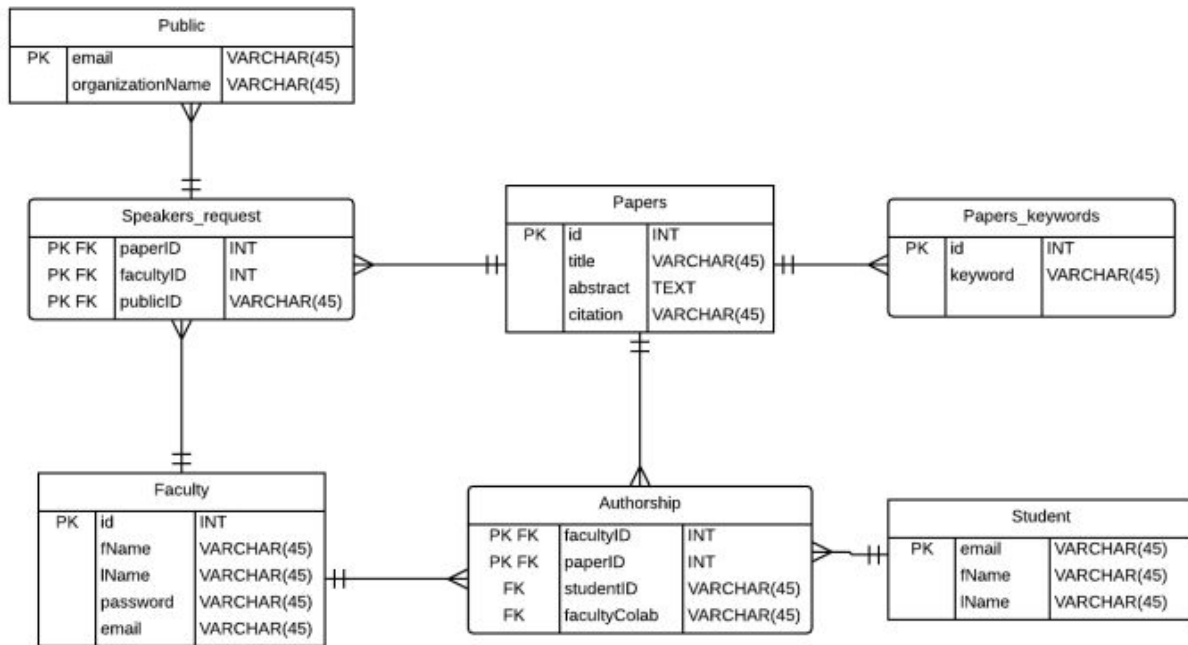
Title:

Faculty:

Keyword:

Public can search speaker based on topics, title, faculty or keyword. After choosing the speaker, they can request the faculty member for a presentation. Or else they can exit.

Entity-Relationship Diagram



Tables for Student and Public were added to our database and they relate with the Faculty and Papers tables (through the associate tables Authorship and Speakers_request), so their requests can be tracked in our application. In the Authorship table there is also a new field called "facultyColab" that will be used when a faculty member that is not the author of the paper wants to collaborate with it. If there are no students, faculty members or public requests, studentID and facultyColab will be left as null and the Speakers_request associative table won't be created.

Identification of areas of particular note: Only Faculty can login, not student or public.

Concern: We have to get a student and/or public send a speaker request to faculty.

Purpose of this document: Our goal is to assist our users with our database program. We hope that they will understand how certain functions work.

1.1 Program Functions

1.2 Login

When the program is started, a welcome page is displayed for the visitor. There are three options than the visitor can choose according to what he or she is: Public, Faculty or Student. Depending on what the visitor chooses, the next program windows will differ.

If the visitor is a Faculty, a new window shows up with a login using email and password.

If the visitor is a Student or Public, a list of papers / speakers will be displayed to be selected.

2.1 Faculty Functions

Once a faculty member is logged in, he or she has the permission to add, modify or delete papers on the database. The faculty member can also accept or decline requests from students to collaborate with paper or public requests for speakers.

2.2 Insert

A faculty member can insert new papers to the database. To do that, the informations about the paper need to be filled: Title, Abstract, Citation and Keywords. After every field is filled, the button "insert" is clicked to finish the insertion of a new paper. An user has to select one of the rows in the table. Once he/she does it, the selected row will show up on the fields. He/she can edit any value before he/she can click "insert" button.

2.3 Update

A faculty member has the power to modify papers that are already on the database. To do that, he or she needs to select the paper that will be modified, then the fields “title”, “abstract”, “citation” and “keywords” will be automatically filled with the information that is in the database. After the changes are made, the update button must be clicked to finish it. An user has to select one of the rows in the table. Once he/she does it, the selected row will show up on the fields. He/she can edit any value before he/she can click “update” button.

2.4 Delete

If the faculty member wants a paper to be deleted for whatever reason, he or she needs to select the needed paper and then hit the delete button. This operation can't be undone. The user needs to be careful. An user has to select one of the rows in the table. Once he/she does it, the selected row will show up on the fields. He/she can edit any value before he/she can click “delete” button.

2.5 Exit

When a faculty chooses not to do this operation, he or she can click “Exit” button. Once it happens, it will take him or her back to “Welcome Screen”.

3.1 Student Functions

Once a student is logged in, he or she has the ability to search the database and view all entries. In addition, he or she can search the database and find any opportunities for them.

3.2 Find Papers

When a student inputs the paper information based on topic, title, faculty, and keyword, he or she clicks find button. After that, he or she can collaborate with a faculty member. “List of Papers” will show up. It has a list of ID, Title, Abstract, and Citation.

3.3 Exit

If a student chooses not to search for a paper, he or she can click “Exit” button. Once it happens, it will take him or her back to “Welcome Screen”.

4.1 Public Functions

Once a public is logged in, they have the ability to search the database and view all entries.

4.2 Find Speakers

When a public inputs the speaker information based on topic, title, faculty, and keyword, they click find button. “List of Speakers” table will show up. It has a list of ID, Title, Abstract, and Citation.

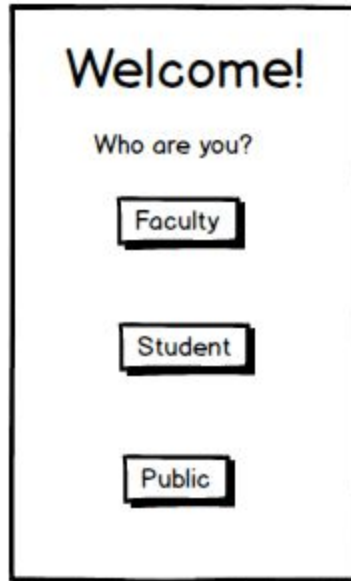
4.3 Exit

If a public chooses not to search for a speaker, they can click “Exit” button. Once it happens, it will take them back to “Welcome Screen”.

What We Were Planning to Do: For extra credit, we were going to have a request function for a student to send a speaker request or collaboration request to faculty. Due to time constraints, we were unable to do so. Simply, Faculty members can accept or decline requests from students that want to collaborate in a determined paper and also, speakers requests. In addition, other faculty members collaborate requests.

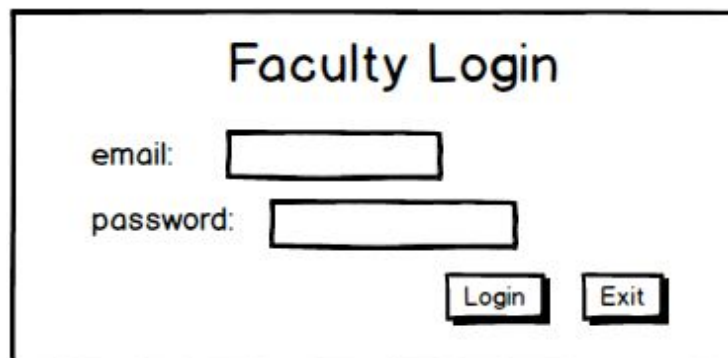
Sketches

Welcome Page for Faculty, Student, and Public



A sketch of a welcome page. It features a large heading "Welcome!" at the top. Below it is the question "Who are you?". Underneath the question are three rectangular buttons stacked vertically, labeled "Faculty", "Student", and "Public".

Login Screen for Faculty



A sketch of a faculty login screen. It has a heading "Faculty Login" at the top. Below the heading are two labels, "email:" and "password:", each followed by a rectangular input field. At the bottom right of the screen are two rectangular buttons labeled "Login" and "Exit".

Error message for incorrect credentials

Error!

Incorrect username/password. Try again

OK

Table for Faculty to input data

Welcome Faculty!

Id	Title	Abstract	Citation
1	Title	Abstract	Citation
2	Title	Abstract	Citation
3	Title	Abstract	Citation

Title

Abstract

Citation

Keyword

Update

Insert

Delete

Exit

Search screen for Student

Welcome Student!

Find paper based on:

Topic:

List of Topics▼

Title:

Faculty:

Keyword:

Find

Exit

Table for Student to select papers

List of Papers			
Id	Title	Abstract	Citation
1	Title	Abstract	Citation
2	Title	Abstract	Citation
3	Title	Abstract	Citation
4	Title	Abstract	Citation
5	Title	Abstract	Citation
6	Title	Abstract	Citation
OK			

Search Screen for Public

Welcome Public!

Find speaker based on:

Topic:

Title:

Faculty:

Keyword:

Table for Public to select speakers based on papers

List of Speakers

Id	Title	Abstract	Citation
1	Title	Abstract	Citation
2	Title	Abstract	Citation
3	Title	Abstract	Citation
4	Title	Abstract	Citation
5	Title	Abstract	Citation
6	Title	Abstract	Citation

OK