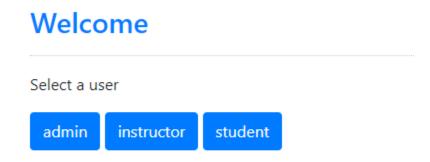
Database-Backed Web Application User Manual

Section 1: Selecting a User from the Homepage:

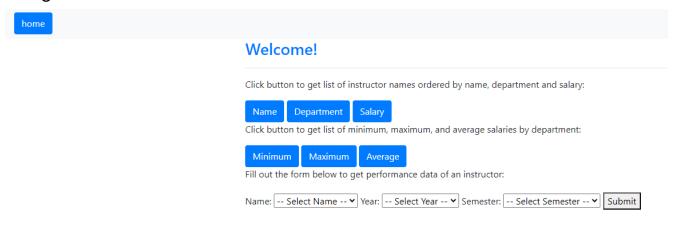
This application contains features and processes for three distinct users, Admin, Instructor, and Student. Each user has different data available to them, and selecting your user is as simple as clicking one of our three homepage buttons, as shown here:



If you are an administrator and have administrative permissions, you would click the admin button, if you are an instructor, you'd select the instructor button, and if you were a student you'd select the student button. Each of these pages will have different functionality, so each is covered in sections 2-4 of this manual.

Section 2: Functionality of the Admin User Page

When the admin button is selected from the homepage, you will be brought to the below screen:



There are three sections on this page, allowing for multiple administrative functions, as well as a home button which returns you to the homepage.

Section 2.1: Instructor Roster

NEW MA New Prof. Ramsdell

The top section, with buttons Name, Department, and Salary, returns a list of professors ordered by the value of the button pressed. For example, pressing the Name button yields a list of professors ordered alphabetically by name, as shown here:

Click button to get list of instructor names ordered by name,department and salary:

Name Department Salary

Ordered by Name

Name

Hou

Khondker

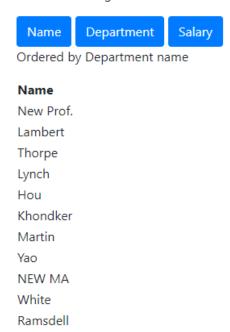
Lambert

Lynch

Martin

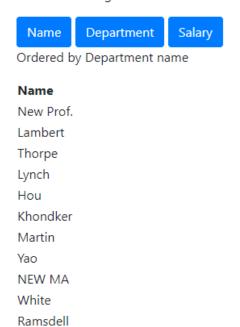
Alternatively, if the Department button is pressed, a list of instructors will be displayed ordered alphabetically by department name, as shown here:

Click button to get list of instructor names ordered by name, department and salary:



Finally, if the Salary button is selected, the list of names will again be displayed, but this time ordered by instructor salary, from least to greatest, as shown here:

Click button to get list of instructor names ordered by name, department and salary:



Section 2.2: Departmental Salaries

The second block in this page allows an administrator to see minimum, maximum, and average salaries for each department in our database. There are three buttons, Minimum, Maximum, and Average on this page, each outputting a different table. If the Minimum button is pressed, a table displaying the minimum salary paid in each department is displayed, as shown here:

Click button to get list of minimum, maximum, and average salaries by department:



Department Name	Minimum Salary
CHE	150000
CS	95000
ECE	100000
MA	89000
PH	98000

Alternatively, if the Maximum button is pressed, the maximum salary paid in each department will be displayed, as shown here:



Finally, if the Average button is pressed, the average salary of each department is displayed, as shown here:

98000.0000

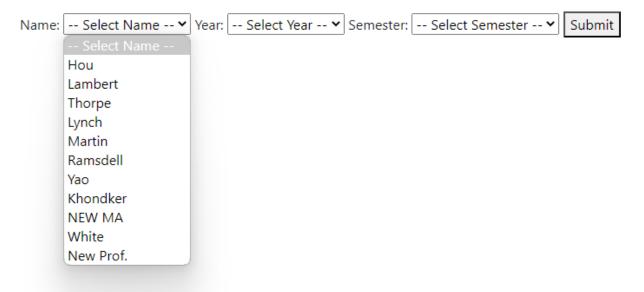


PH

Section 2.3: Instructor Performance

The third and final section on the administrative page has three dropdown menus, Select Name, Select Year, and Select Semester, as well as a Submit button. These drop downs are populated with data from the database, as shown here:

Fill out the form below to get performance data of an instructor:



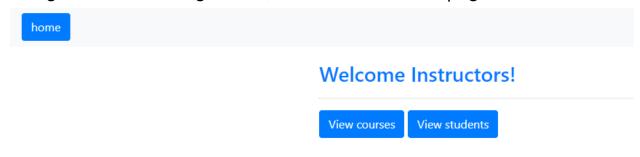
This section will display performance information for the input instructor name, year, and semester when the Submit button is pressed. The resultant table shows the number of sections taught, number of students taught, the amount of funding received, and the number of papers published:

Fill out the form below to get performance data of an instructor:



Section 3: Functionality of the Instructor User Page:

When the instructor button is pressed on the homepage, the user is brought to the following screen, called the instructor page:



This page has two buttons, View courses and View students, as well as a home button, which takes the user back to the homepage.

Section 3.1: The Courses Page

Pressing the View courses button takes the user to this page:

back	home					

Welcome Instructor!

ID:		
Year:		
emester:		
	Submit	

This page also has a home button, which takes the user back to the home page, as well as a back button, which takes the user back to the instructor page. There are three fields to enter text into, ID, Year, and Semester. The ID field takes in the instructor's ID, the Year field takes in the year the instructor wants to filter for, and Semester takes in the semester the instructor wants to filter for. When filled out and the Submit button is pressed, the resultant table shows a list of course ID's, sections, and the number of students in those courses and sections taught by the input instructor in the year and semester entered:

Your Courses

Course ID	Section	Number of Students
EE468	01	1
EE468	02	1

Section 3.2: The Students Page

Returning to the instructor page, and selecting the View Students button, we are greeted with the following page:

back home	
	Welcome Instructor!
	Instructor Name:
	Course:
	Submit Submit

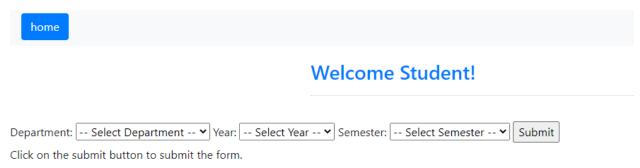
This page contains the same home and back buttons as the Courses page, but with different text entry fields, called Instructor Name, Course, and Semester. The Instructor Name field takes an instructor's name, the Course field takes a course ID, and the Semester field takes a semester, 1 for Fall, and 2 for Spring. When the form is filled out and the Submit button pressed, a table showing all students who were taught by the input instructor for the entered course and semester:

Welcome Instructor! Instructor Name: Course: Semester: Submit Ordered by Name Students [Hou, EE468, Fall] Zhang

Megan

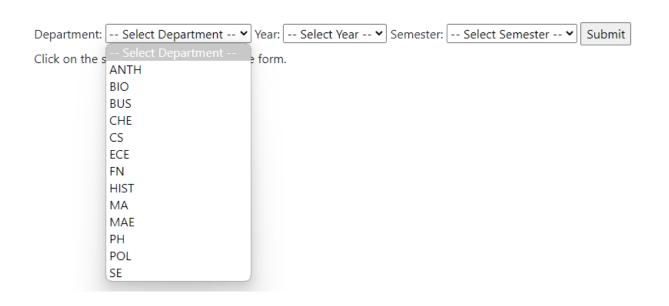
Section 4: The Student User Page

When selecting the student option from the homepage, the user is taken to this screen:



There is a home button on this page that will take the user back to the homepage, as well as a form containing three dropdowns, Select Department, Select Year, and Select Semester. These drop downs contain values obtained from our database, as shown here:

Welcome Student!



The Select Department field takes a department to filter by, the Select Year field takes in a year to filter by, and the Select Semester field takes in a year to filter by. When the form is filled and the Submit button is pressed, a table is shown listing the course sections offered by the input department during the entered year and semester. The table also shows what building and room the course is in, and that room's capacity:

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v	v	_		•				LU	ı			

Course	Section	Semester	Year	Building	Room	Capacity
CS141	01	2	2019	CAMP	194	60
CS141	02	2	2019	CAMP	194	60
CS141	03	2	2019	CAMP	194	60

Conclusion

This concludes the user manual for the Database-Backed Web Application.