

# EE468: Database Systems

## User Manual




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# Introduction

Welcome to the University Management User Manual, this is designed to help you navigate the multiple features of our University Management Website. Whether you're a student, professor, or admin, this manual will assist you in efficiently and effectively utilizing our website.

## Getting Started

- Open the Terminal
- Enter "python manage.py runserver"
- Open preferred search engine
- Enter "<http://127.0.0.1:8000/> "

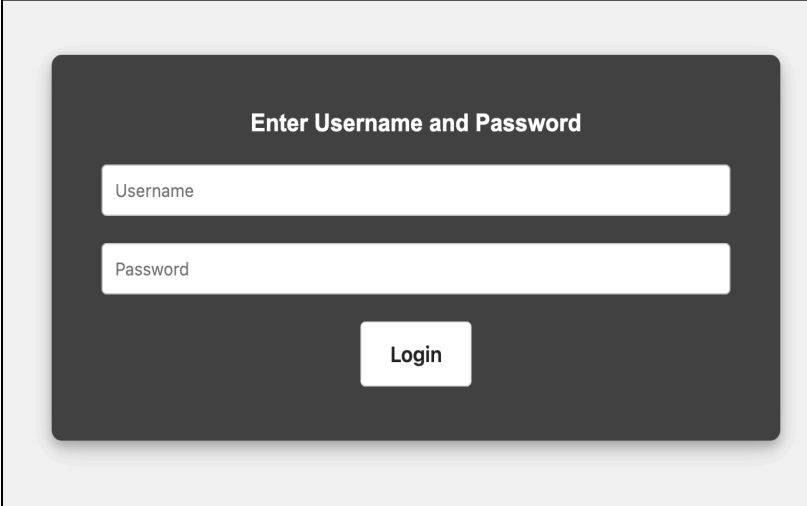
A terminal window titled "univSite — Python - Python manage.py runserver — 80x24". The output shows the command "python3 manage.py runserver" being executed, followed by "Watching for file changes with StatReloader" and "Performing system checks...". A system check message states "System check identified no issues (0 silenced)." with a timestamp of "April 25, 2024 - 17:28:54". It then shows "Django version 5.0.4, using settings 'univSite.settings'" and "Starting development server at http://127.0.0.1:8000/". The final instruction is "Quit the server with CONTROL-C.".

```
univSite — Python - Python manage.py runserver — 80x24
jeryedemers-st.hilaire@host-128-153-174-226 univSite % python3 manage.py runserv
er
Watching for file changes with StatReloader
Performing system checks...

System check identified no issues (0 silenced).
April 25, 2024 - 17:28:54
Django version 5.0.4, using settings 'univSite.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CONTROL-C.
```

## Navigation

Once you have accessed our website at <http://127.0.0.1:8000/> you are presented with the login screen.

A login form with a dark gray background and white text. The title "Enter Username and Password" is centered at the top. Below the title are two white input fields: "Username" and "Password". At the bottom center is a white "Login" button.

Enter Username and Password

Username

Password

Login

Your username and password is dependent upon the following:

### ★ Admin

- Password - admin
- Username - admin

### ★ Professor

- Password - professor
- Username - professor

## ★ Student

- Password - student
- Username - student

**Admin, Professor, and Student, have been broken down below.**

## ★ Admin

- F1 Roster
  - Select a order: Name, Department, Salary
  - Select Ascending or descending
  - Press Submit
  - This will return a list of professors.

**List Professors**

Order by

☐ Name ☒ Department ☐ Salary

Ascending or Descending

☐ Ascending ☒ Descending

Submit

List of Instructors			
ID	Name	Department	Salary
28346	Zhang	PY	115000
13579	Ramsdell	PH	105000
20560	Conlon	OIS	115000
12370	Skufca	MA	132000
12371	Mondal	MA	123000
14534	White	MA	150000
23456	Martin	MA	100000
34568	NEW MA	MA	99000
85732	Reynolds	MA	108000
43203	Gohl	IA	78000
05133	Stein	HIST	80000
10102	Hussain	ECE	90000
11001	Swali	ECE	15000

- F2 Salary
  - Enter a Department
  - Press Submit
  - This will return the minimum,maximum and average salary of the department.

**min/max/average salary of department**

Leave blank for all departments

department

ECE

Submit

Department Stats			
Department	Min Salary	Max Salary	Average Salary
ECE	15000	135000	99285.7143

- F3 Performance
  - Enter the Professor
  - Enter the Year
  - Select Fall Semester or Spring Semester
  - Press Submit
  - This will return the number of course sections (in selected semester), students, research

**Professor Performance**

Will Return

1. The number of course sections taught during the semester

2. The Number of students taught

3. Amount of research funding obtained

4. Amount of papers the professor has published.

Professor Name

Hou

Year

2020

☒ Fall semester ☐ Spring semester

Submit

Professor Performance			
Course Sections Taught	Number of Students Taught	Funding Secured	Papers Published
1	2	113203	1

funding, and amounts of papers the professor has published.

### ★ Professor

- F4 Semester Analysis
  - Enter Instructor ID
  - Enter Year
  - Select Fall Semester or Spring Semester
  - Press Submit
  - This will return the number of course sections and students taught in the selected semester and year..

#### Semester Analysis

Will Return

- The number of course sections taught during the chosen semester and year
- The number of students taught in each section

Instructor ID

Year

☐ Fall semester
 ☒ Spring semester

Course Sections		
Course number	Section number	# Students
EE468	01	1
EE468	02	2

- F5 Course Selection
  - Enter Instructor ID
  - Enter Course Number
  - Enter Section Number
  - Enter Year
  - Select Fall Semester or Spring Semester
  - Press Submit
  - This will return the students in the course section.

#### Students in Course Sections

Instructor ID

Course Number

Section Number

Year

☐ Fall semester
 ☒ Spring semester

Students in Course		
Name	Student ID	Grade
Megan	05401	C
Williams	54321	B

### ★ Student

- F6 Courses Offered
  - Enter Department
  - Enter Year
  - Select Fall Semester or Spring Semester
  - Press Submit

#### Courses by department

Department

Year

☐ Fall semester
 ☒ Spring semester

- This will return the course offered in the department during the selected year and semester.

Department Courses		
Course Number	Title	Section
EE468	Databases	01
EE468	Databases	02