

Capstone supervisor allocation portal for LPU students using python



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INT 213

Submitted To Pooja Rana (Faculty INT 231) On 10-Nov-2021 by

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Acknowledgement

I **Garapati Mahendra Siva Sai Satya Venkat** alone worked hard to complete this project. However, it would not have been possible without the kind support and help of my professor **Pooja Rana**(Faculty INT-213).

I would like to extend my sincere thanks to all those who helped regarding the project & also for their support in completing the project. This project helped me to hone my Python programming skills and helped me gain grip on GUI (Graphical User Interface).

SUMMARY :

This project takes use of GUI to create a portal that enables Students to request Supervisor for their capstone project and Supervisors to select the students whom they wish to supervise.

INTRODUCTION

In this project I made a Capstone Supervisor Allocation Portal, the technology that we have used is sole Python Tkinter and MySQL . Tkinter is the standard GUI (Graphical User Interface) library for Python. Python when combined with Tkinter provides a fast and easy way to create GUI applications. Tkinter provides a powerful object-oriented interface to the Tk GUI toolkit. MySQL is an open-source relational database management system. With MySQL commands we can use it together with Tkinter, which allows to create and manipulate databases and tables in the GUI.

This project has been divided into two segments: -

Student Segment :

which helps new students register for the supervisor allocation and pre-registered students to login and check the name of their supervisor and their basic details.

Supervisor Segment :

which helps new supervisors to register for his availability and pre-registered supervisors to check the name of allocated students under them and their basic details.

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FIG 1

This is the Main page where you choose to Login as a student if you already registered or Register if you are a new user and Supervisors can login as Supervisor if already registered or Register if you are a new user.

#PORTAL#

STUDENT LOGIN

Enter Name

Password

LOGIN

SUPERVISOR LOGIN

Enter Name

Password

LOGIN

STUDENT REGISTER

Enter Name

Enter Reg.no

Enter Email Id

Enter Mobile Number

Enter Password

REGISTER

SUPERVISOR REGISTER

Enter Name

Enter UID

Enter Email Id

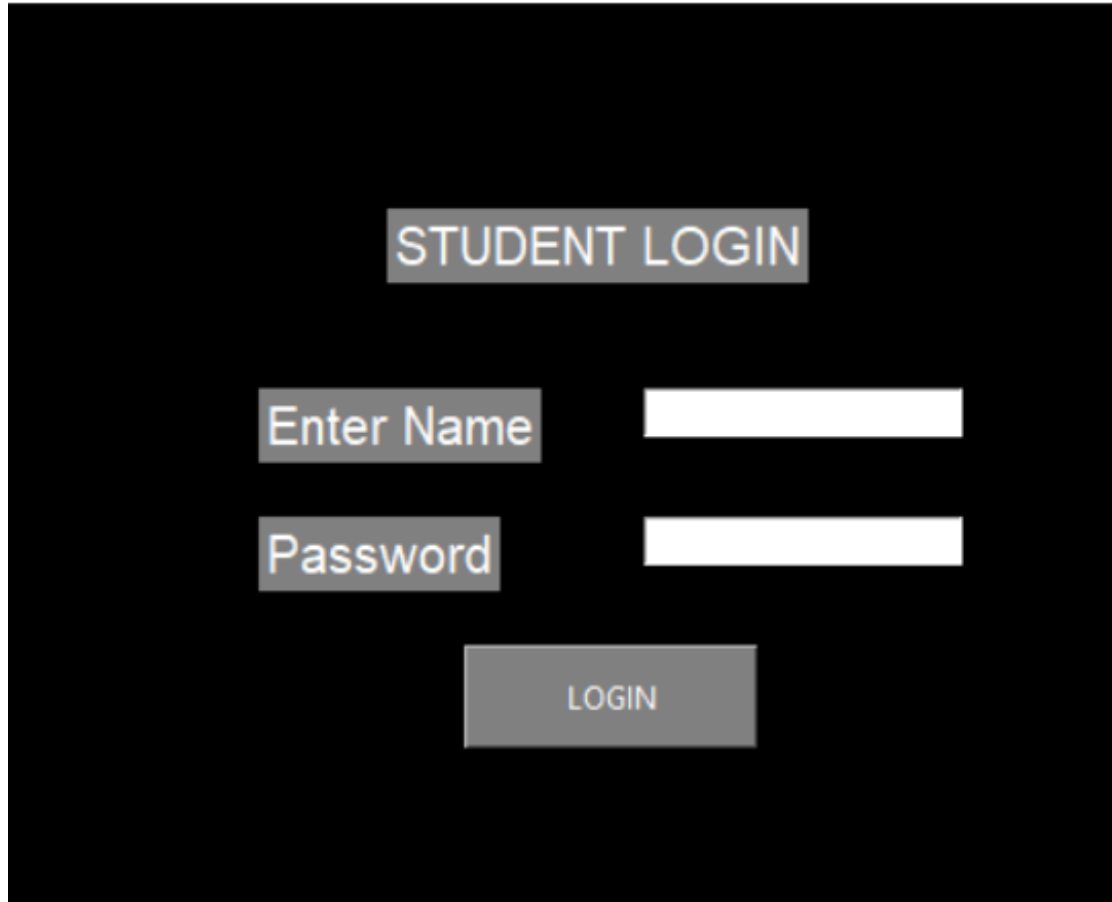
Enter Specialization

Enter Password

REGISTER

FIG 1.1

Existing user can login using student login if they are students. Usernames are their Registration numbers and passwords are those entered by them in Registration. Their details are stored in database using MySQL, So their Password must match their Registration number to Login Successfully.



STUDENT LOGIN

Enter Name

Password

LOGIN

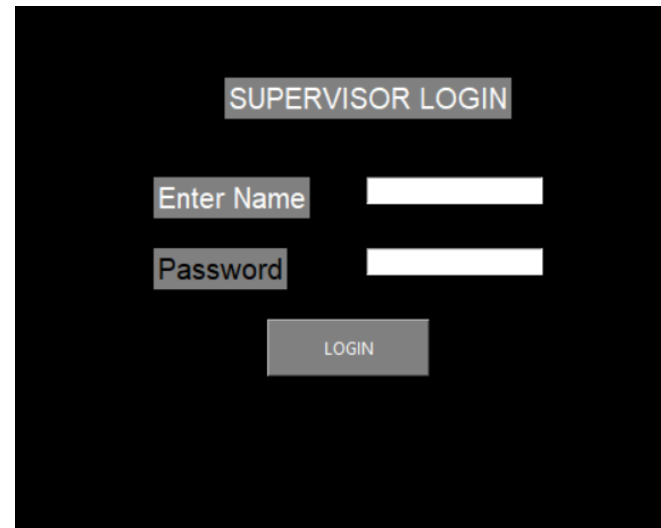
FIG 1.2

New Students can Register here by entering their Name, Registration Number, Email Id ,Mobile Number, Password. All fields must be filled and Registration number must be a number and Mobile number must be number of length 10 or else error will be shown.

The image shows a student registration form with a black background. At the top, the title "STUDENT REGISTER" is displayed in a light gray box. Below the title, there are five input fields, each preceded by a label in a light gray box: "Enter Name", "Enter Reg.no", "Enter Email Id", "Enter Mobile Number", and "Enter Password". Each label is followed by a white rectangular input field. At the bottom center of the form, there is a light gray button labeled "REGISTER".

FIG 1.3

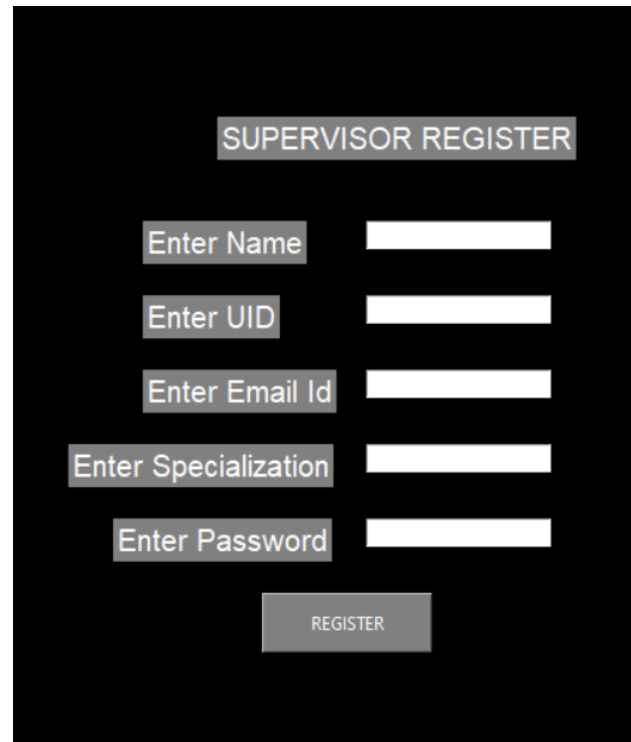
Similar to Student login, here username is UID



A login form titled "SUPERVISOR LOGIN" with a black background. It features two input fields: "Enter Name" and "Password", both with white text labels and white input boxes. Below the fields is a "LOGIN" button with white text on a black background.

FIG 1.4

Similar to Student Register but fields are different



A registration form titled "SUPERVISOR REGISTER" with a black background. It features five input fields: "Enter Name", "Enter UID", "Enter Email Id", "Enter Specialization", and "Enter Password", all with white text labels and white input boxes. Below the fields is a "REGISTER" button with white text on a black background.

FIG 2

After login successfully this window opens, REQUEST SUPERVISOR

#REQUEST SUPERVISOR#

Supervisors

Name	UID	Email ID	Specialization
Pooja Rana	20992	poojarana@gmail.com	python
Sudha Shanker Prasad	21826	ssprasad@gmail.com	Data Structures
Baljinder Kaur	26661	baljinderkaur@gmail.com	DBMS

Enter UID

Request

FIG 2.1

We can see the details of available Supervisors using MySQL and Tkinter Treeview

Supervisors			
Name	UID	Email ID	Specialization
Pooja Rana	20992	poojarana@gmail.com	python
Sudha Shanker Prasad	21826	ssprasad@gmail.com	Data Structures
Baljinder Kaur	26661	baljinderkaur@gmail.com	DBMS

FIG 2.3

Here enter the UID of your preferred to send a request to the supervisor

Enter UID

Request

FIG 3

After Supervisor login this window appears, SELECT STUDENTS

#SELECT STUDENTS#

Students

Name	Registration No	Email ID	Mobile
Mahendra	12014364	mahigarapati@gmail.com	1234567891
Surya	12256989	suryay@gmail.com	1234567892
Eswar	1225688	eswar@gmail.com	1234567893

Name	Requests	Students
Bhupinder Kaur	None	None
Amandeep Kaur	None	None
Nahida Nazir	None	None

Select

FIG 3.1

The Supervisors can see the details of the students here using MySQL and Tkinter Treeview

Students			
Name	Registration No	Email ID	Mobile
Mahendra	12014364	mahigarapati@gmail.com	1234567891
Surya	12256989	suryay@gmail.com	1234567892
Eswar	1225688	eswar@gmail.com	1234567893

FIG 3.2

Supervisors can see the requests and selected students in this table and can select the students

Name	Requests	Students
Bhupinder Kaur	None	None
Amandeep Kaur	None	None
Nahida Nazir	None	None

Select

References:

1. <https://stackoverflow.com/>
2. <https://www.geeksforgeeks.org/>

With all the information above and guidance by my faculty I was able to complete my project.

Github link: <https://github.com/imt08/Supervisor-Allocation-Portal>