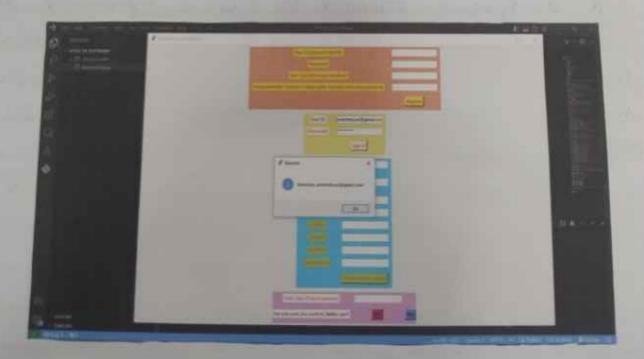
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INTRODUCTION

high-level general purpose use of significant garbage collects graphical. etandard complete TeI interpreter interpreter. The main components is a rectangular which refore and Frames, which and supresents





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LIBRARIES USED:	
The libraries emported for the academic unit application	
are heltol ar follows:	
The second secon	
· Thirtie : For the GIVI part of the application with	l
THE THE THE THENDELL.	
- Module messagebox was also imported from the thinler	
library	
· Dayley Communication (va) library: To envey and string manipulation	4
at the backend It has been used to sheek whether the	
presumed entered entities the presumed solier and to cheek	
password entered satisfies the password policy, and to check	1
substituen the category of a sporeon and a student is walis	
· Saletine module: The Saletine module has been excel	to
store the time of seprestaving a user into the rendemin	
store the time of registering a user into the readence unit, which is stored into the regularie field of the	
men, since is about the significant of the signific	
MDr.	
• O. a. 11 -100 00 A A A A A A	
· Elche library: The pickle library has been imported to some	
and stere the new Mala in "inter data pkl" file so that it	-
an be rebuived and used even after the program is	
loved	





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IMPLEMENTATION

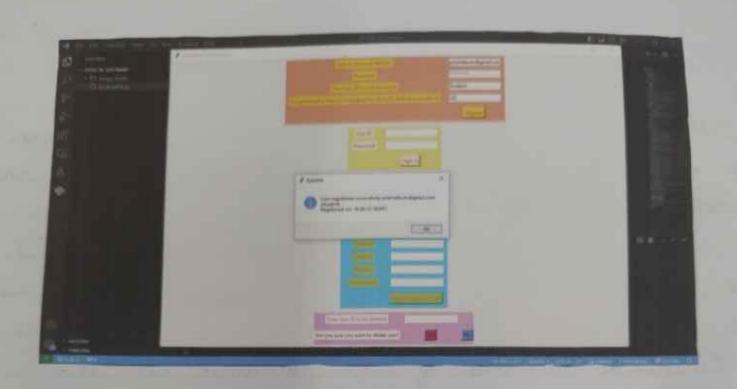
develop the application of the backend be define a class the standard and which contains as individual "sub" classes the basic write and solable of the academic unit as its stata members and una define members functions to implement the subward functionality that describes the behavior of the unit.

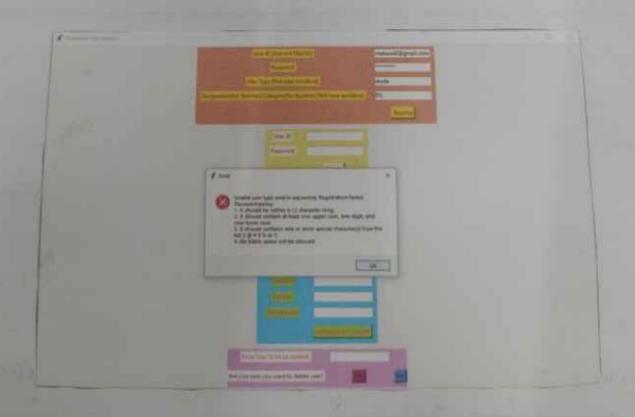
The herarchial structure of the academic unit is:

TEACHER STUDENT

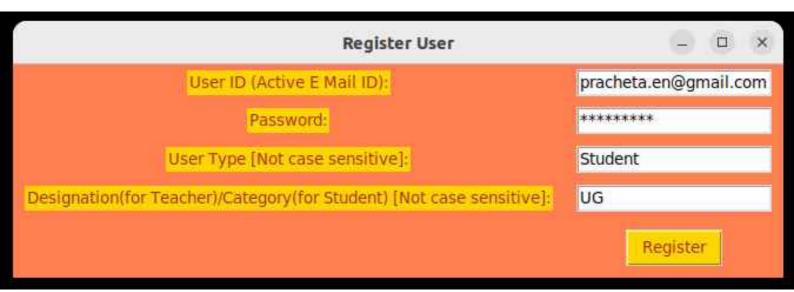
Jo implement this hierarchy, we define the following exild elacus of class Academic Suit:

- Arion: It defines as a member method function __init__
which sele and initializes the essential attributes associated with each present in the unit: it selt the user id,
password, time of registration (these three are passed to









Success ×



User registered successfully: pracheta.en@gmail.com (student)

Registered on: 19:38:06.096687

OK

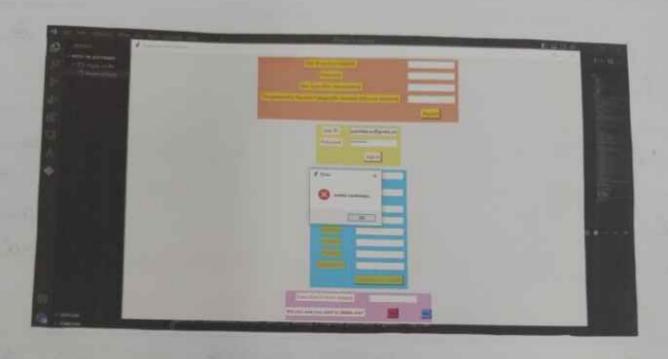
the function) and initialize the number of attempts to sign in to 0, and the user to be in an active state.

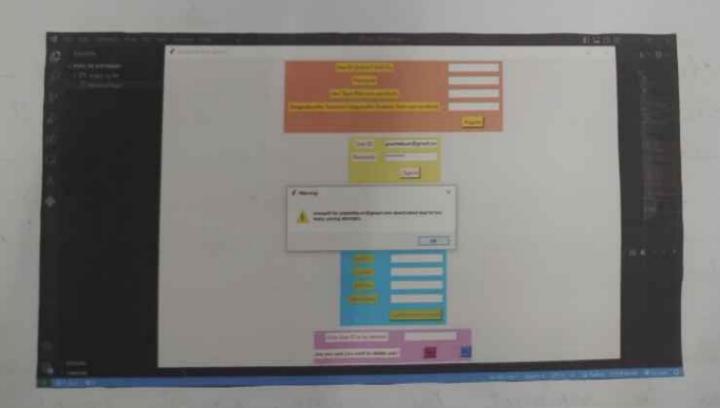
the function will the basic attributes of the tracker and also sets the obesignation of the entered by

and make the function int. and introlesse the house of a student and sets the coligony of a student as either a von on a PG student.

function which is defined in subling class threen. It is used to store the profile fields of a process: the name, the data of britts, address, small id (which happens to be the user id and therefore needs not be entered explicitly) contact number, roll number and the department.

Withen the clase deademicalit, member functions have been defined to emplement the regular, sign-in, update profile and delete user fratures of the GNI.





Update Profile

Enter User ID:

pracheta.en@gmail.com

Enter Password:

Name:

Pracheta Saha

Date of Birth:

16-01-2005

Address:

IIT Kharagpur

Contact:

9163676995

Roll No .:

22CS30042

Department:

CS

Authenticate Yourself







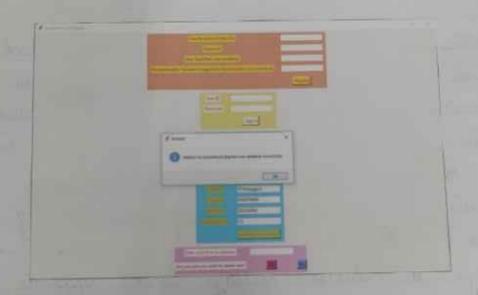
Details for pracheta.en@gmail.com updated successfully!

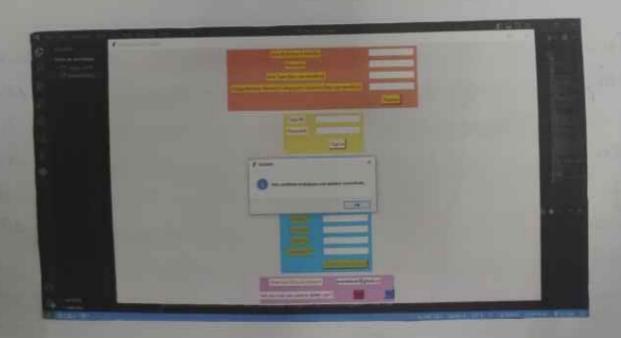
OK

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-init - I Member function that takes in abject self and as an instance of the class and intralige, terresponding to self two lists, were I and profile []. is walid passioned: It execuse soluther the password intered at the time of regulation is valid as not. entered details are valid. It checks whether the password is valid by envoking method is valid password and also exercise whether the user type entired is valid of any the conditions are not met, it flashes an ever message mentioning the passivered policy and asking the user to register again. Else it succesfully registers the sum and displays a success message and appends to the bit regestered users and profiles sign in: It eaters to a user's request of seger in after verifying entered exedentials. If the user id or passivered not valid, it displays on ower message of it has been found that a particular user id has 3 consecutive sign in attempts that have failed, the account is obactivated like, the user is signed in and the attempt counter is set to 0.







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update trafile: It bett only an authoriteated wer update the profile for a particular wer ist. It first overfies the sure ist and password entired and if the everlutials do not match, the sure is denied permission to modify profile, else the profile details entired are updated into the list of profile.

The profile details entired are updated into the list of profiles.

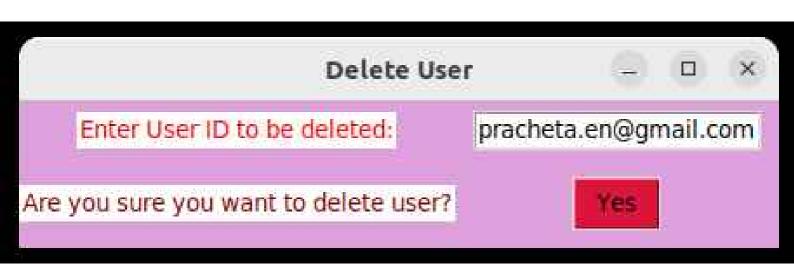
The delete uses: It is used to remove a user from the list.

delete user: It is used to remove a user from the list of evers and profiles provided that the given user id exits.

nil: It is a function used to display a message box when a deletion action is requested for concellation by a

that, we define the class deademic mit 601 which defines the GOVI functions for the application. The main window of the interface is titled "deademic Unit System" and object self calle the constructor deademic through self academic unit. Four different frames are differed for user regulation, sign in, profile update and sur delete back frame has a set of labels with which the leser entone data and buttons which our elicking, triggers the functions specified under command. These functions in liver each the main function defined in the backend place deademic net.

Teacher's Signature









User pracheta.en@gmail.com deleted successfully.

<u>O</u>K