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# Objectives

To create a desktop application using Python

To implement three-tier architecture: Data Access Layer, Business Logic Layer, and User Interface

To use SQLite for storing data

# Scope and Features

## Three Types of User

TutorialOn users are identified as: Advisee, Peer Adviser, and Administrator – each having different user capabilities. Advisee and Peer Adviser are classified as Student users.

## Real-Time Login and Logout

TutorialOn utilizes real-time logging-in and logging-out of students.

## View Session Log

Administrators are capable of viewing session logs of Advisee users.

## View Time Sheet

Administrators are capable of viewing time sheets – the time-in and time-out of Peer Adviser users.

## Add User

Advisees with no data can register without Administrator permission. Only Administrators can add other users such as Peer Advisers and Administrators.

## Email Students

Students, either Advisees or Peer Advisers can be emailed by an Administrator through the application.

## Lists Logged-in Students

TutorialOn lists logged-in students.

# Limitations

## Real-Time Login and Logout

Logged-in student users that were not logged-out will have a null value in time-out when the application closes.

## Email Students

TutorialOn uses outlook.com server: 587 in emailing Student users, thus, email addresses not having MyMail as domain name system are not considered.

# Class Diagram

## TutorialOn Class Diagram

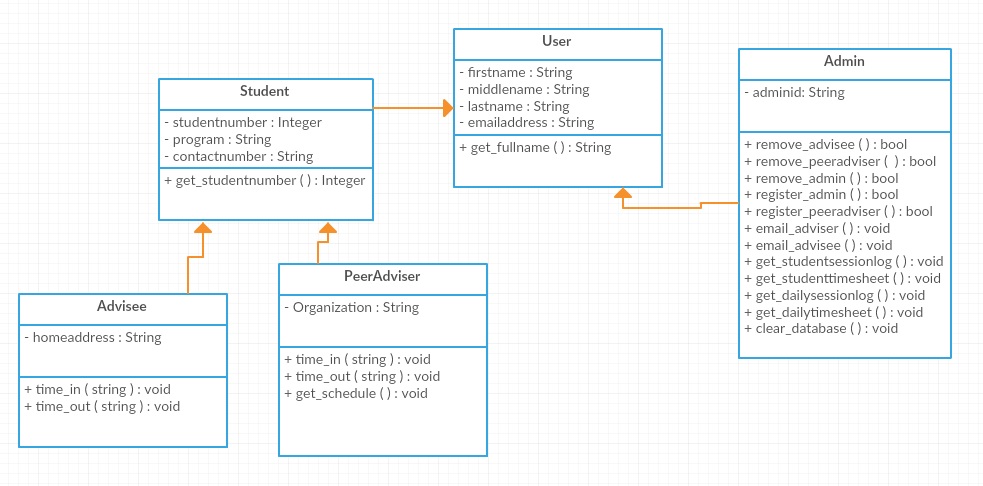


Figure .: Business Logic Layer Class Diagram

# User Manual

## Peer Adviser Login

Enter student number (10-digit).

Press Enter.

Click “Login”.

Enter password.

Click “Login”.

Click “OK”.

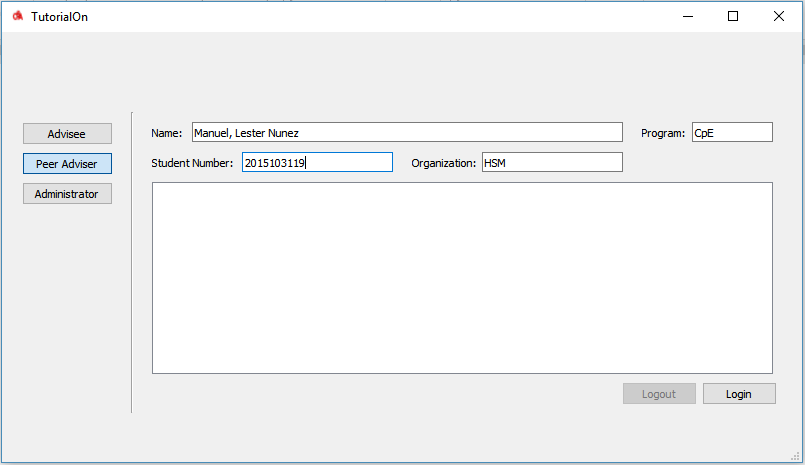


Figure .: Peer Adviser Login

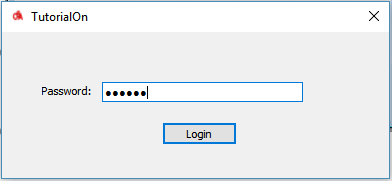


Figure .b: Peer Adviser Login Password Prompt

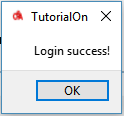


Figure .c: Peer Adviser Successful Login Prompt

## Advisee Login

Enter student number (10-digit).

Choose a field (Mathematics, Chemistry, Physics, or Professional Course)

Select a course code from the drop-down list.

If “Others” is selected, enter the course code.

Click the “…” button to choose a peer adviser from the logged in list.

Select a peer adviser.

Click “Select”.

Click “Login”.

Click “OK”.

Note: No advisee can login if there is no logged-in peer adviser.

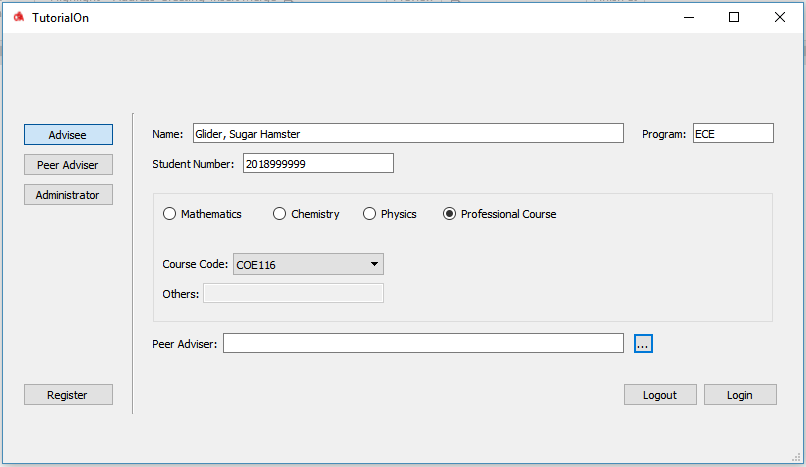


Figure .: Advisee Login

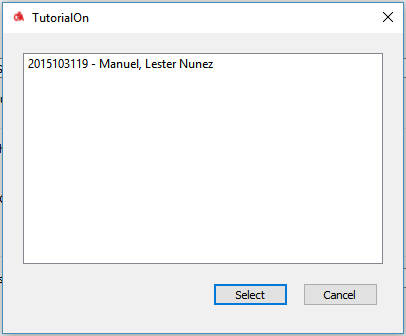


Figure 2.b: Logged-In Peer Advisers

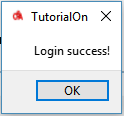


Figure 2.c: Advisee Successful Login Prompt

## Administrator Login

Enter username.

Enter password.

Click “Login”.

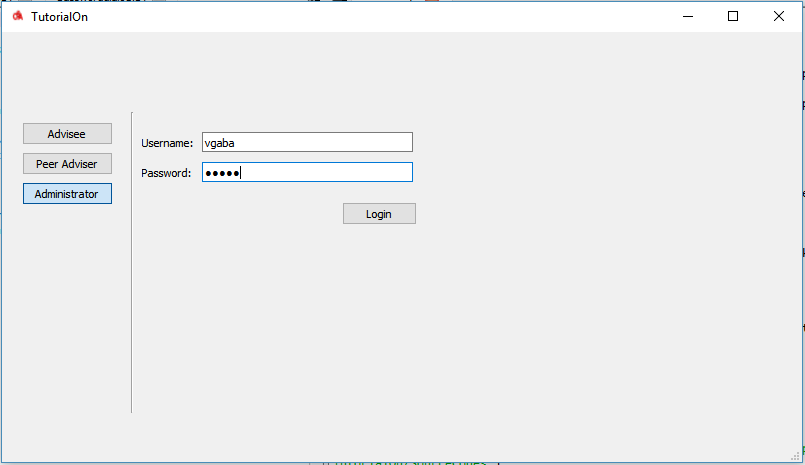


Figure .: Administrator Login

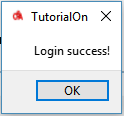


Figure 3.c: Administrator Successful Login Prompt

## Administrator Panel

### View Student Info

Choose between “Advisee” and “Peer Adviser”.

Enter 10-digit student number.

Click “Search”.

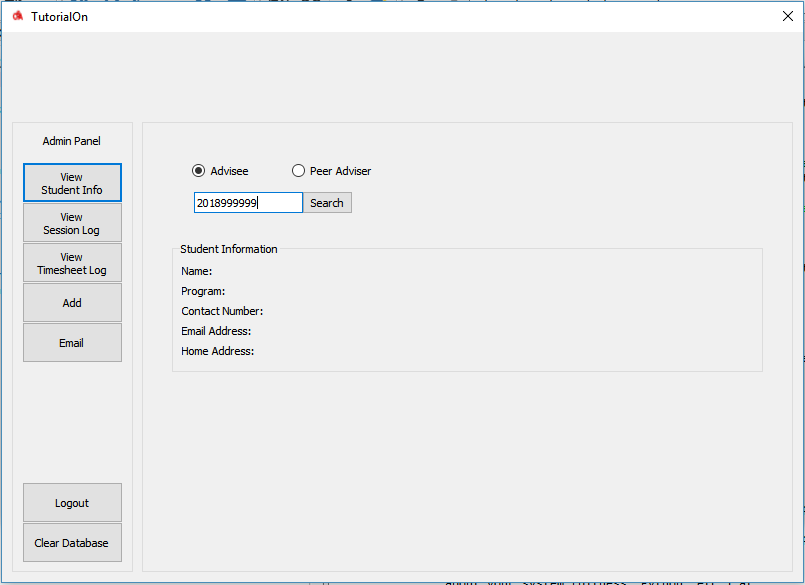


Figure 4.1.a: View Student Info Panel

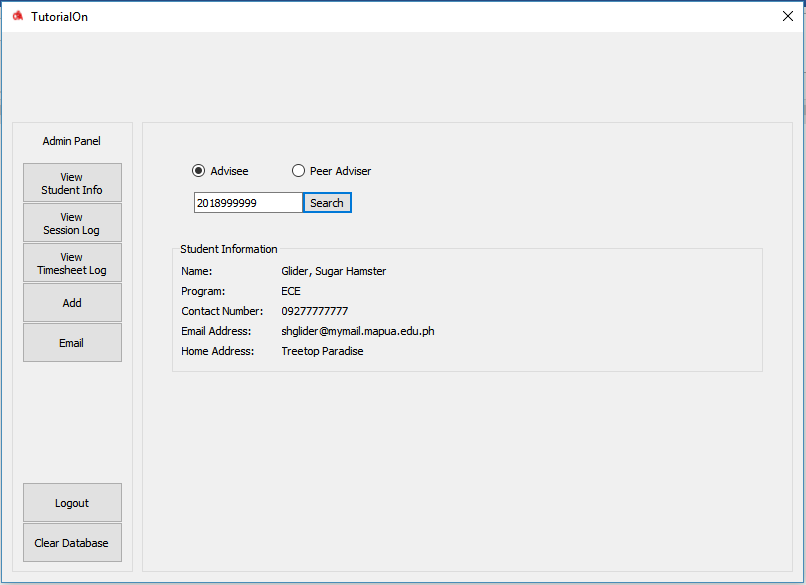


Figure 4.1.b: View Student Info Panel – Student Found

### View Session Log via Date

Select “Search by date”.

Set date.

Click “Search”.

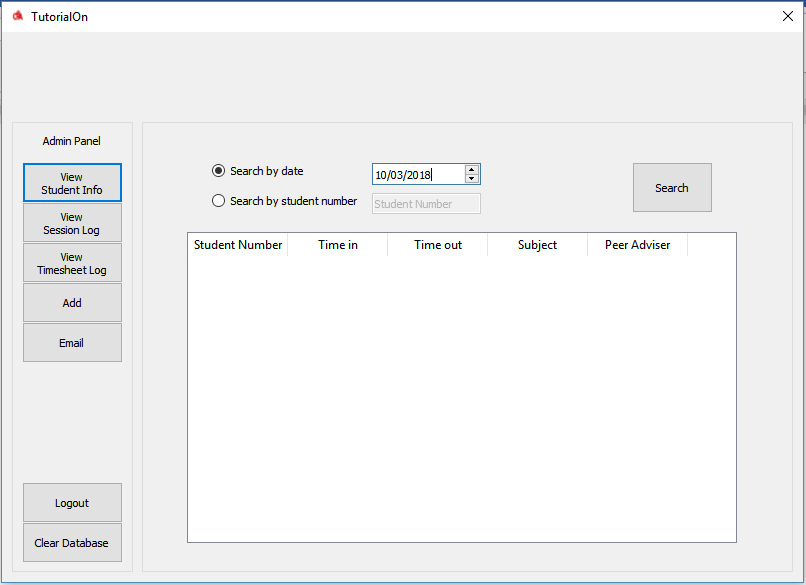


Figure 4.2.a: View Session Log Panel via Date

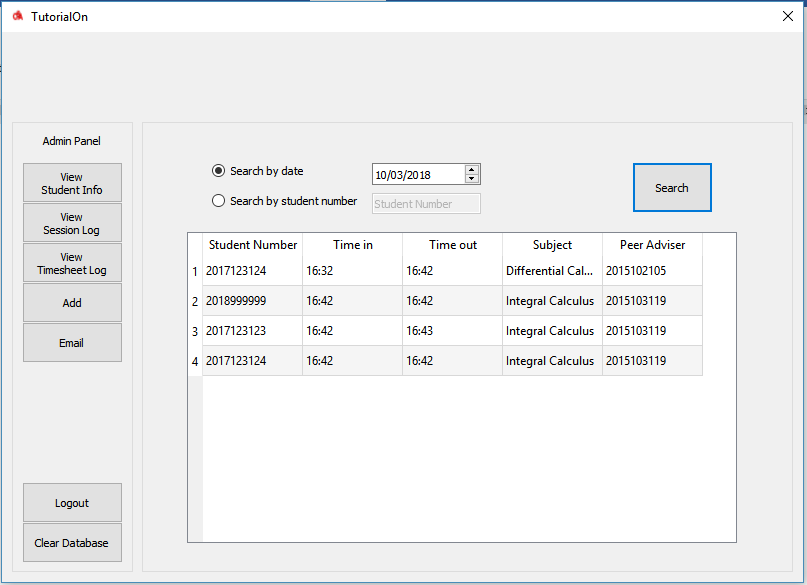


Figure 4.2.b: View Session Log Panel via Date– Student Found

## Peer Adviser Signup

Fill-up fields.

Click “Register”.

Note: Only administrators are capable of creating peer adviser’s account.

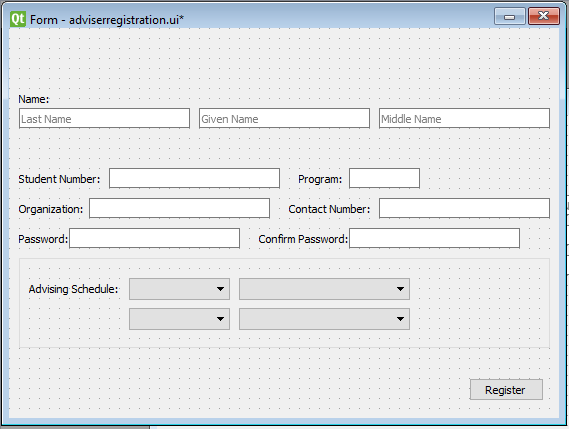


Figure : Peer Adviser Signup

## Advisee Signup

Fill-up fields.

Click “Register”.

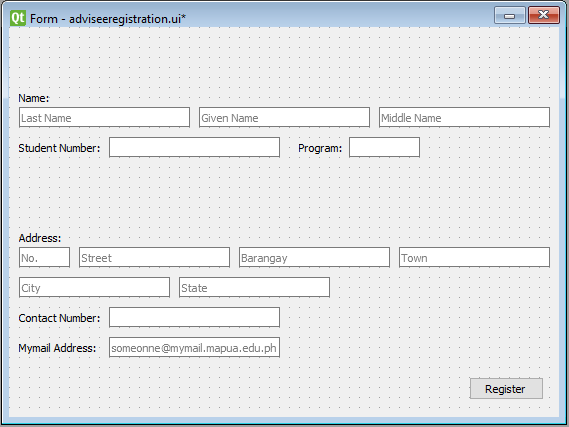


Figure : Advisee Registration

## Administrator Signup

Fill-up fields.

Click “Register”.

Note: Only administrators can create administrator account.

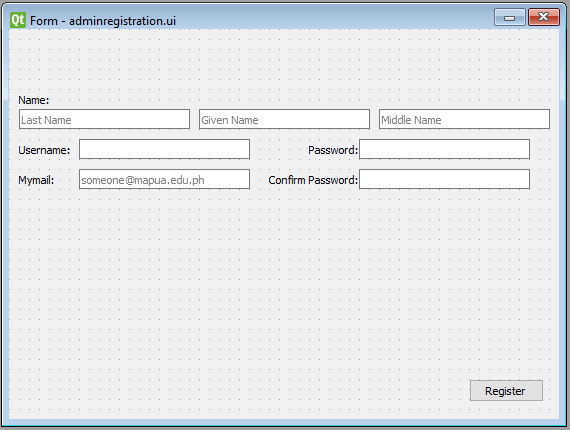


Figure : Administrator Registration

# Unit Test

## User Class

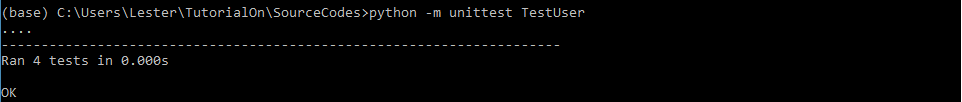


Figure : User Class

## Admin Class

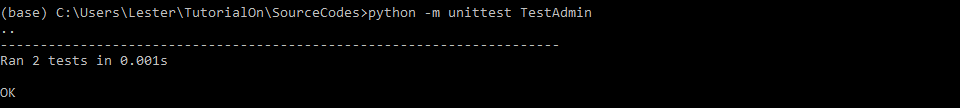
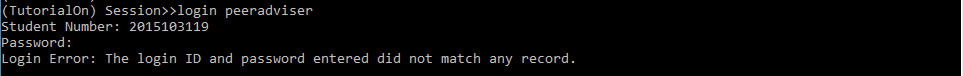
 

Figure : Admin Class

## Session Class

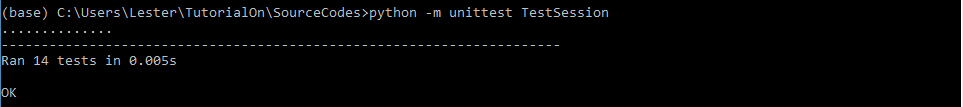


Figure : Session Class

