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1. Table of Contents

[A Analysis 3](#_Toc527351880)

[B Objectives 1](#_Toc527351881)

[C Scope and Features 2](#_Toc527351882)

[C.1 Three Types of User 2](#_Toc527351883)

[C.2 Real-Time Login and Logout 2](#_Toc527351884)

[C.3 View Session Log 2](#_Toc527351885)

[C.4 View Time Sheet Log 2](#_Toc527351886)

[C.5 Add User 2](#_Toc527351887)

[C.6 Email Students 2](#_Toc527351888)

[C.7 Lists Logged-in Students 2](#_Toc527351889)

[D Limitations 3](#_Toc527351890)

[D.1 Three Types of User 3](#_Toc527351891)

[D.2 Real-Time Login and Logout 3](#_Toc527351892)

[D.3 View Session Log 3](#_Toc527351893)

[D.4 View Time Sheet Log 3](#_Toc527351894)

[D.5 Add User 3](#_Toc527351895)

[D.6 Email Students 3](#_Toc527351896)

[D.7 Lists Logged-in Students 3](#_Toc527351897)

[E Class Diagram 4](#_Toc527351898)

[E.1 TutorialOn Class Diagram 4](#_Toc527351899)

[F User Manual 5](#_Toc527351900)

[F.1 Peer Adviser Login 5](#_Toc527351901)

[F.2 Advisee Login 7](#_Toc527351902)

[F.3 Administrator Login 9](#_Toc527351903)

[F.4 Administrator Panel 10](#_Toc527351904)

[F.4.1 View Student Info 10](#_Toc527351905)

[F.4.2 View Session Log by Date 12](#_Toc527351906)

[F.4.3 View Session Log by Student Number 14](#_Toc527351907)

[F.4.4 View Timesheet Log 16](#_Toc527351908)

[F.4.5 View Timesheet Log by Student Number 18](#_Toc527351909)

[F.4.6 Add User 20](#_Toc527351910)

[F.4.7 Email Students 22](#_Toc527351911)

[F.5 Register Advisee 23](#_Toc527351912)

[G Unit Test 24](#_Toc527351913)

[G.1 User Class 24](#_Toc527351914)

[G.2 Admin Class 24](#_Toc527351915)

[G.3 Session Class 24](#_Toc527351916)

# Analysis

TutorialOn is a real-time time-in and time-out monitoring desktop application built using Python. The application implemented a three-tier hierarchy architecture: Data Access Layer, Business Logic Layer, and User Interface, and used SQLite for storing data.

TutorialOn was designed for and from the Center of Student Advising of Mapua University for the Peer Advising Session of volunteer students and advisees. The Center currently uses paper-and-pen for their logging system. This application aims to replace their current system for automation, faster, easier, and better logging and monitoring system.

TutorialOn handles logging-in and out of three users: Administrator, and two student users: Advisee and Peer Adviser. No advisee can login without a logged-in Peer adviser. Advisees can register even without the Administrators permission. Most of the application features can only be used by the Administrators such as View Logs, Add User, and Email students.

The proponents implemented an emailing system using the Outlook server for easier communication and notification with all its advisees and peer advisers. Having this and a database resolves the current systems issues.

# Objectives

To create a desktop application using Python

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

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 Log

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

## Three Types of User

Users are limited to only their capabilities.

## 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.

## View Session Log

Sessions logs can only be searched by date or by student number.

## View Time Sheet Log

Time Sheet logs can only be searched by date or by student number.

## Add User

Only Administrators can add Peer Adviser and Administrator users.

## 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.

## Lists Logged-in Students

Information of students logged-in are limited to only student number, name, time-in, and time-out.

# Class Diagram

## TutorialOn Class Diagram

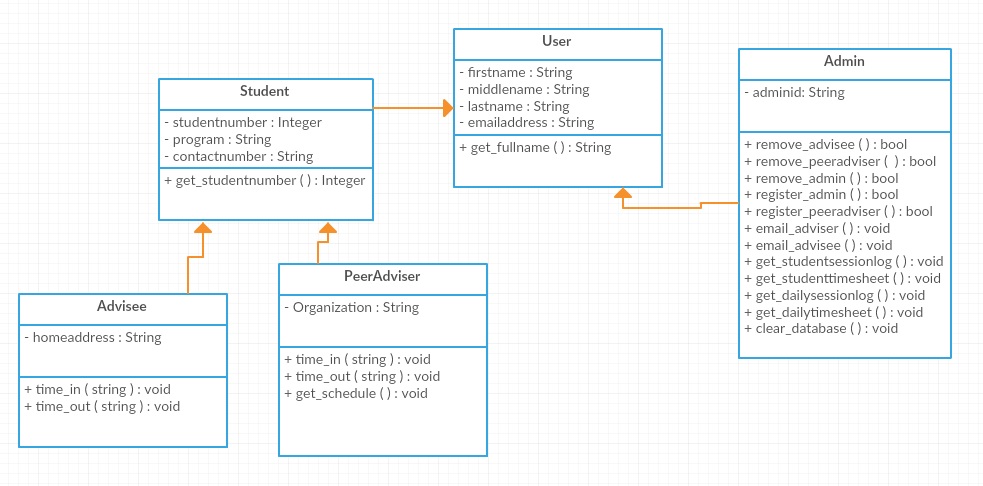


Figure E.1.a: Business Logic Class Diagram

# User Manual

## Peer Adviser Login

Enter student number (10-digit).

Press Enter.

Click “Login”.

Enter password.

Click “Login”.

Click “OK”.

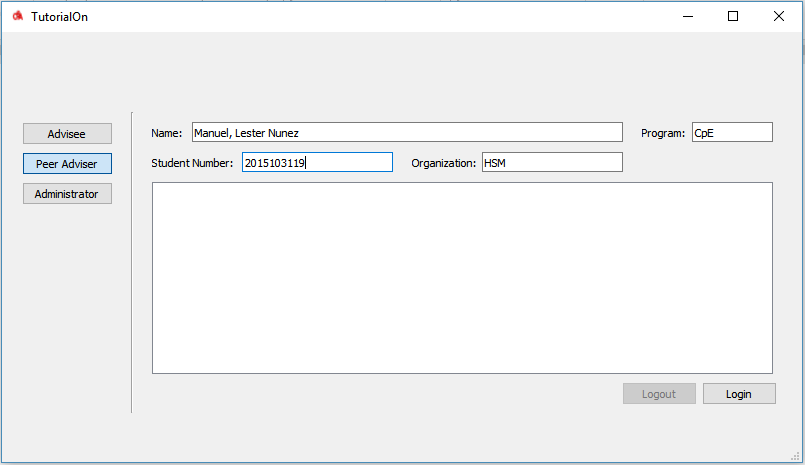


Figure F.1.a: Peer Adviser Login

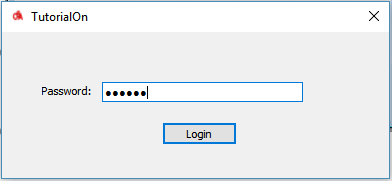


Figure F.1.b: Peer Adviser Login Password Prompt

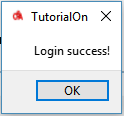


Figure F.1.c: Peer Adviser Successful Login Prompt

## 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.

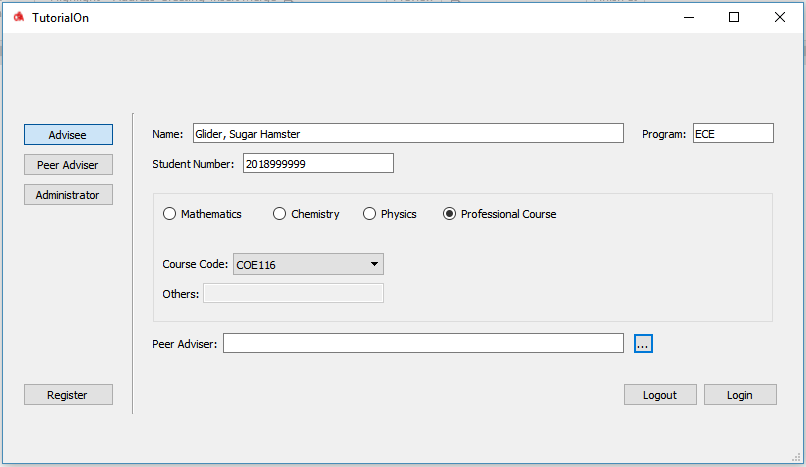


Figure F.2.a: Advisee Login

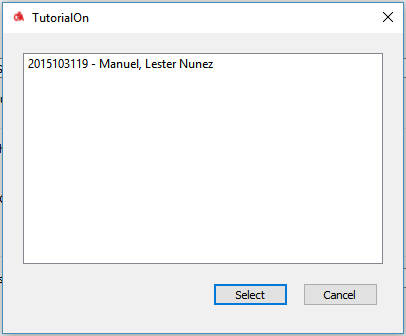


Figure F.2.b: Logged-In Peer Advisers

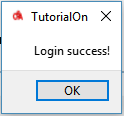


Figure F.2.c: Advisee Successful Login Prompt

## Administrator Login

Enter username.

Enter password.

Click “Login”.

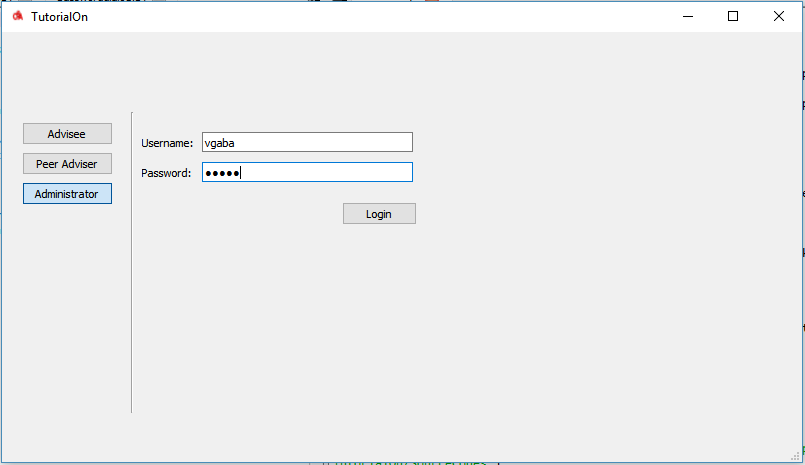


Figure F.3.a: Administrator Login

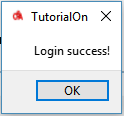


Figure F.3.c: Administrator Successful Login Prompt

## Administrator Panel

### View Student Info

Choose between “Advisee” and “Peer Adviser”.

Enter 10-digit student number.

Click “Search”.

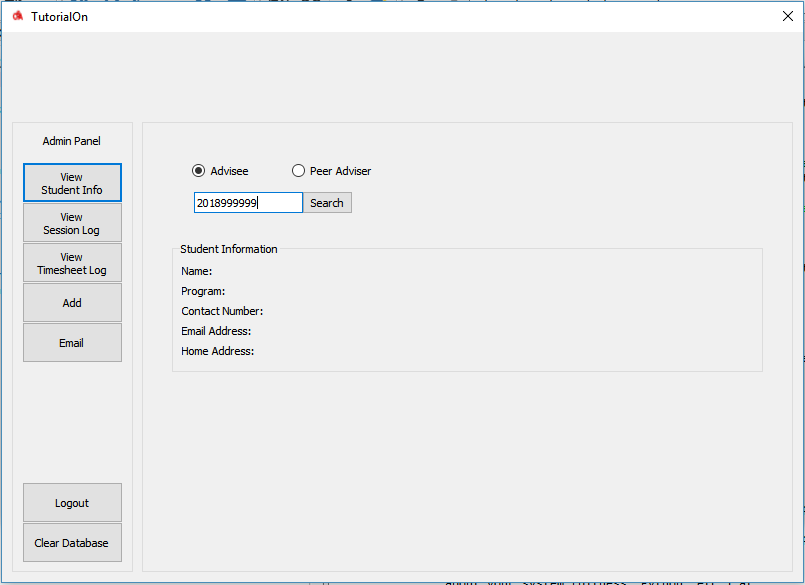


Figure F.4.1.a: View Student Info Panel

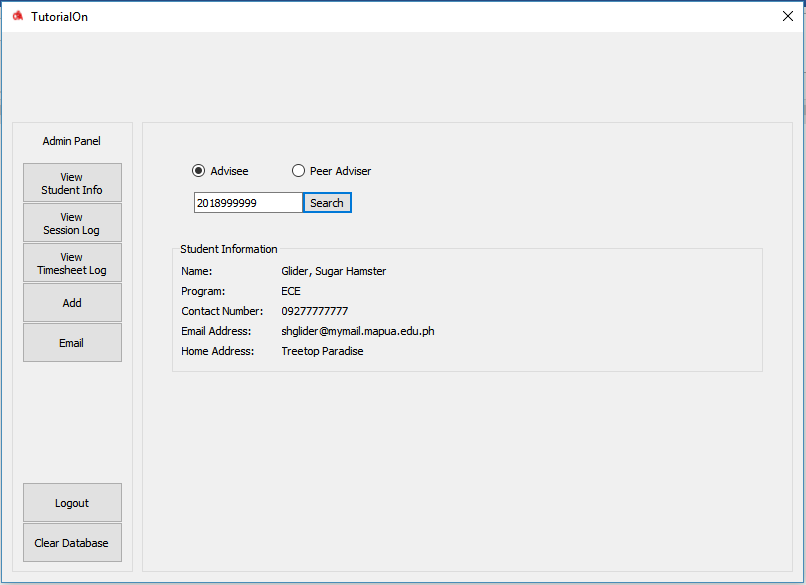


Figure F.4.1.b: View Student Info Panel – Student Found

### View Session Log by Date

Select “Search by date”.

Set date.

Click “Search”.

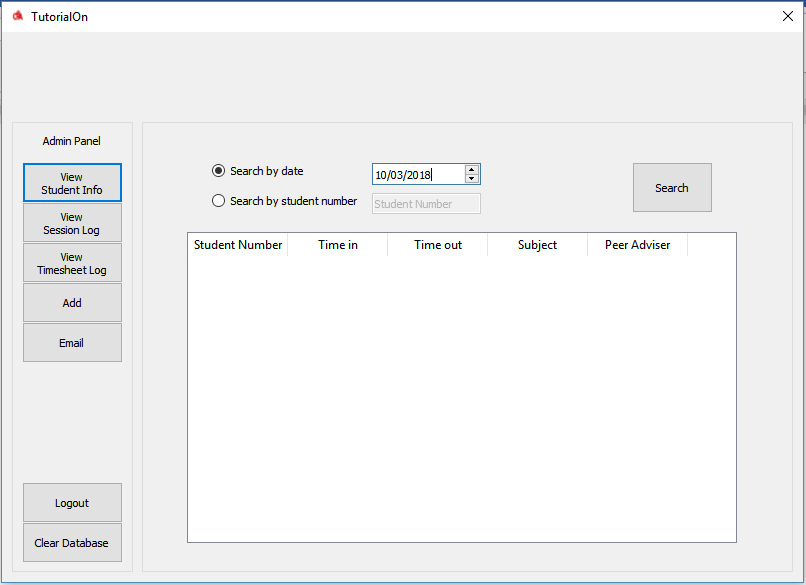


Figure F.4.2.a: View Session Log Panel by Date

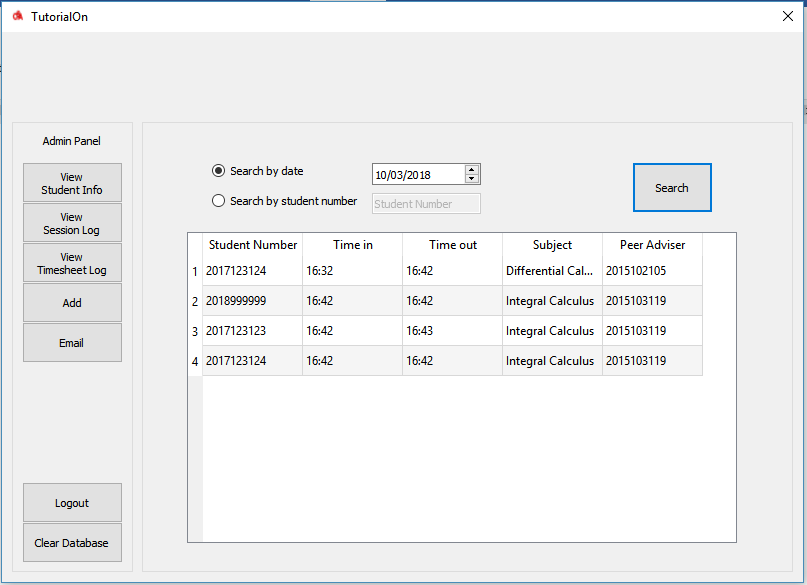


Figure F.4.2.b: View Session Log by Date – Student Found

### View Session Log by Student Number

Select “Search bi student number”.

Enter 10-digit student number.

Click “Search”.

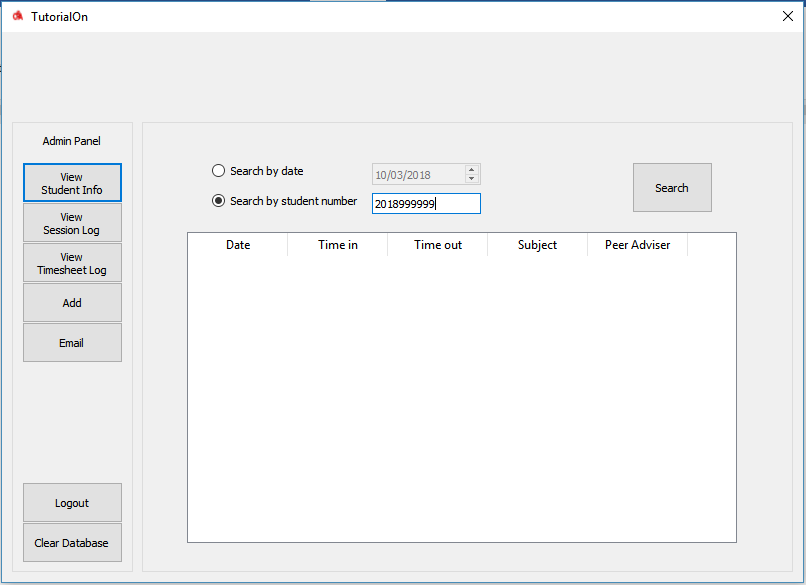


Figure F.4.3.a: View Session Log by Student Number

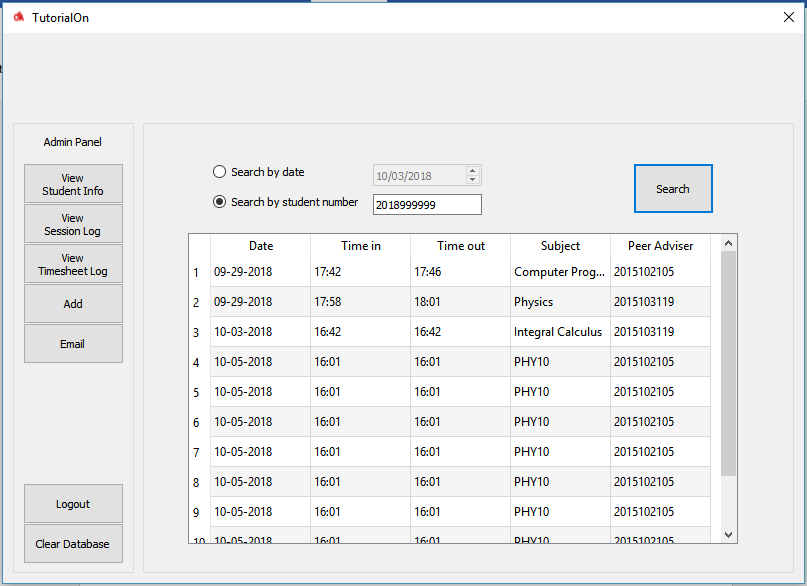


Figure F.4.3.b: View Session Log by Student Number – Student Found

### View Timesheet Log

Select “Search by date”.

Set date.

Click “Search”.

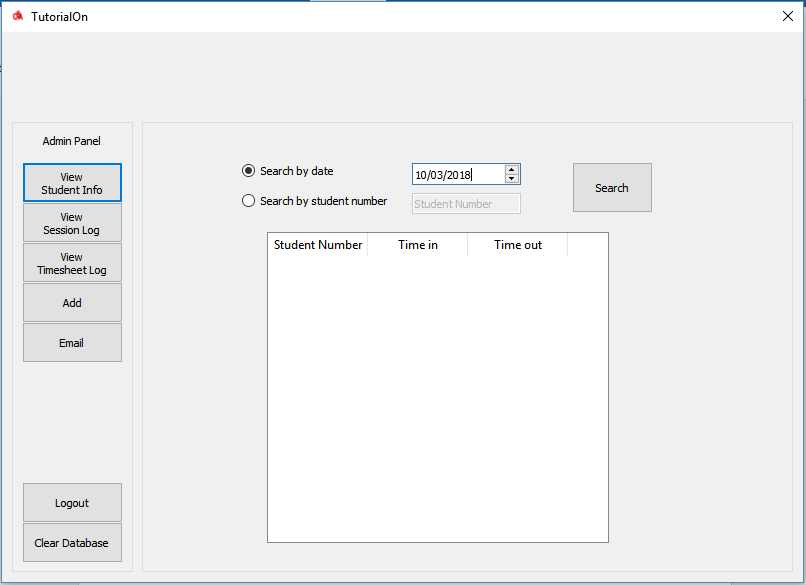


Figure F.4.4.a: View Timesheet Log by Date

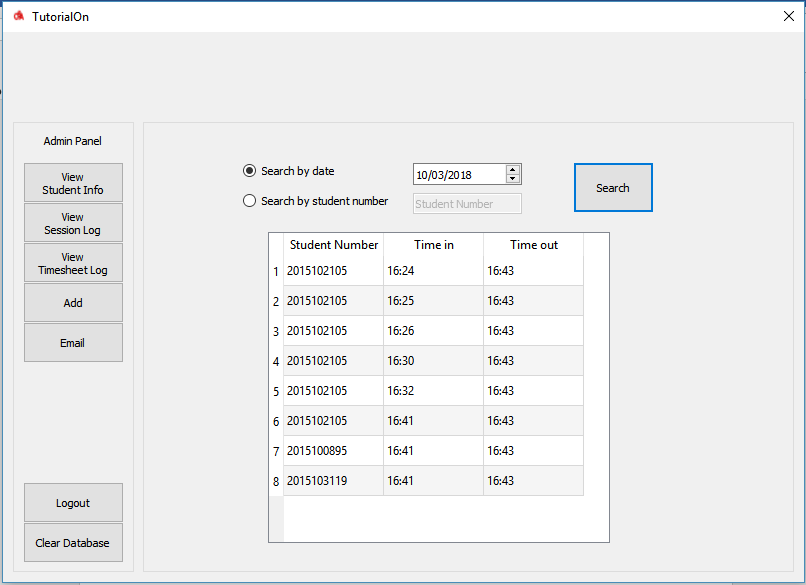


Figure F.4.4.b: View Timesheet Log by Date – Student Found

### View Timesheet Log by Student Number

Select “Search by student number”.

Enter 10-digit student number.

Click “Search”.

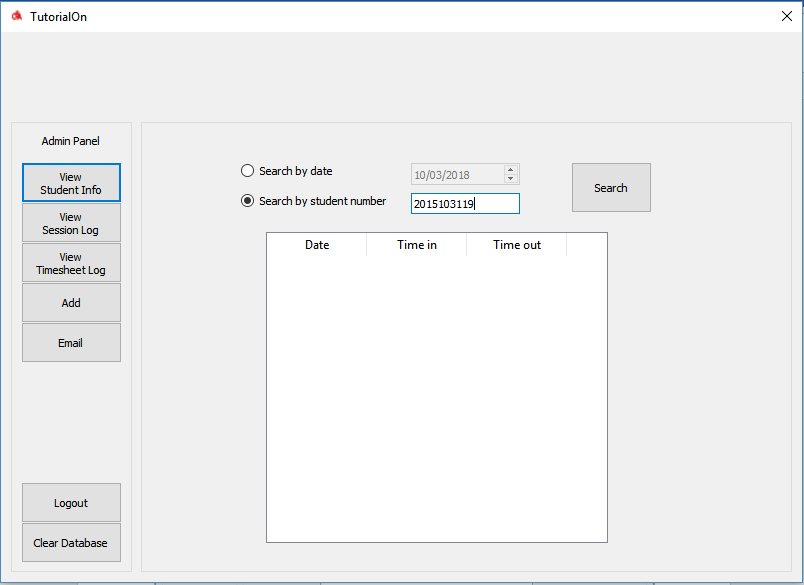


Figure F.4.5.a: View Timesheet Log by Student Number

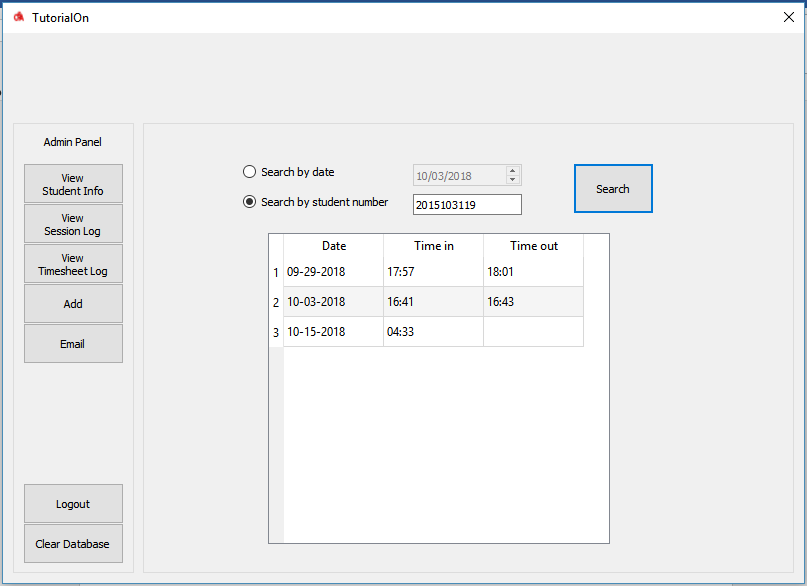


Figure F.4.5.b: View Timesheet Log by Student Number – Student Found

### Add User

Choose a user type to register among “Advisee”, “Peer Adviser”, “Administrator”

Fill-up all required fields.

Choose Advising Schedule. (Note: 1st schedule must not be the same with 3nd schedule.)

Click “Register”.

Click “OK”.

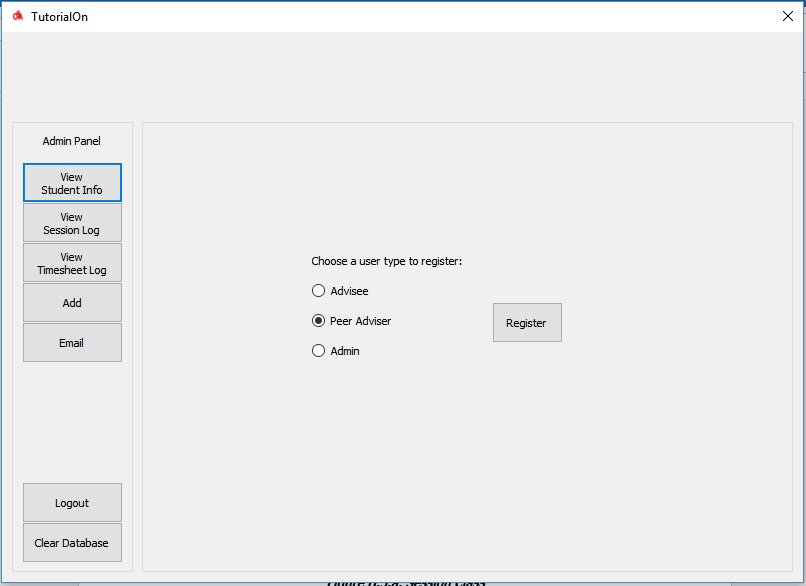


Figure F.4.6.a: Add User

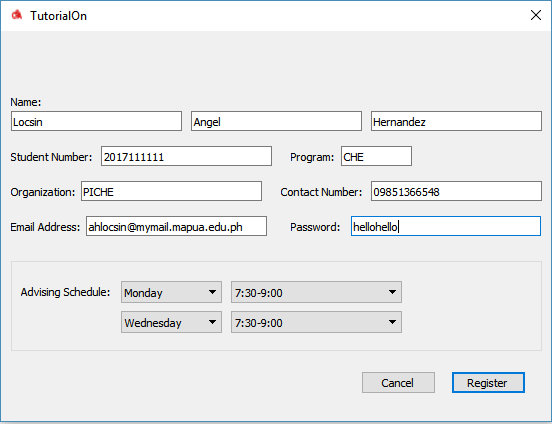


Figure F.4.6.b: Add User – Peer Adviser

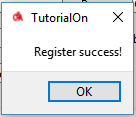


Figure F.4.6.c: Add User – Success Prompt

### Email Students

Choose between “All Advisees” or “All Peer Advisers”.

Enter Subject.

Compose Body.

Click “Send”.

Enter Mymail password.

Click “Login”.

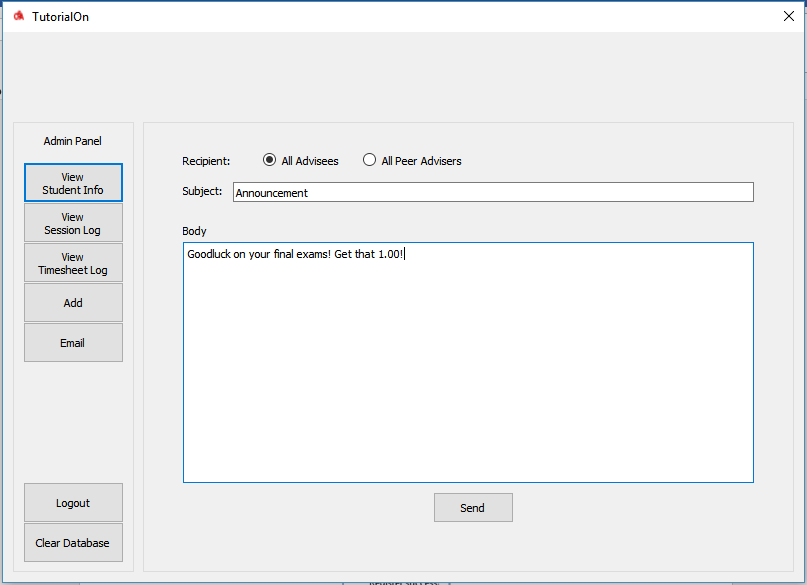


Figure F.4.7.a: Email Students

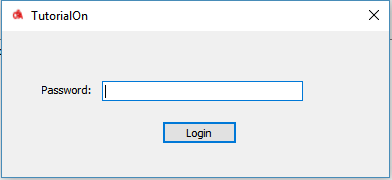


Figure F.4.7.b: Email Students Password Prompt

## Register Advisee

Click “Register”.

Fill-up all required fields.

Click “Register”.

Click ”OK”.

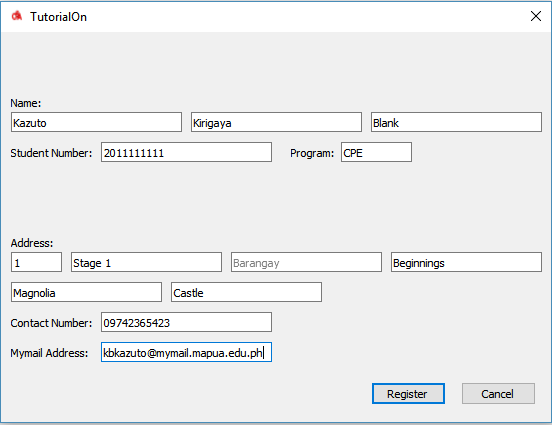


Figure F.5.a: Register Advisee

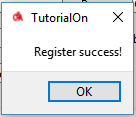


Figure F.5.b: Register Advisee – Success Prompt

# Unit Test

## User Class

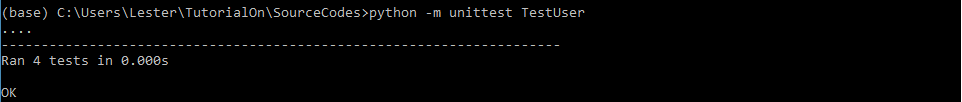


Figure H.1.a: User Class

## Admin Class

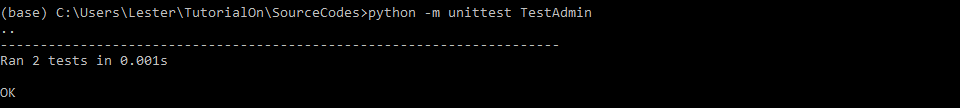


Figure H.2.a: Admin Class

## Session Class

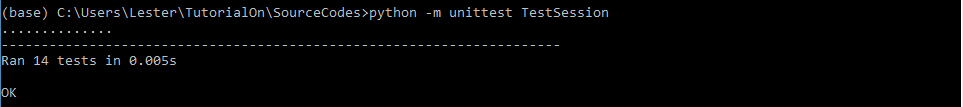


Figure H.3.a: Session Clas

