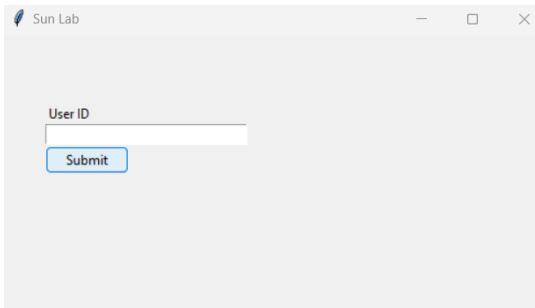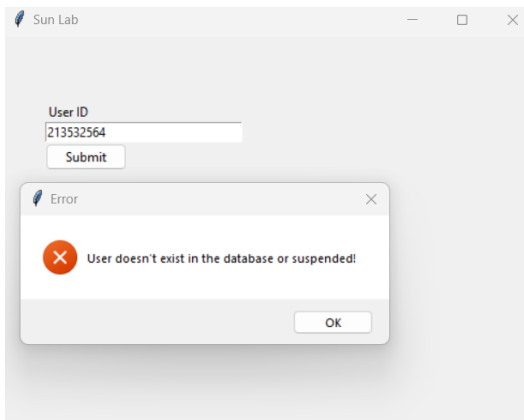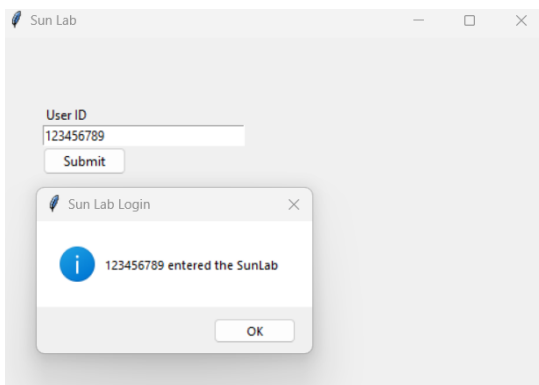Caleb Nhkum
CMPSC 487W
Project 1

SunLab

Assume that this is the SunLab in virtual, where the user would enter their ID to enter and exit the SunLab.
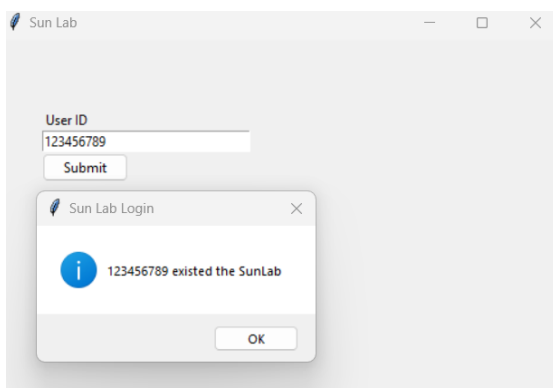

When the invalid ID or suspended user enters the SunLab, it will prompt the error, and access will be denied.
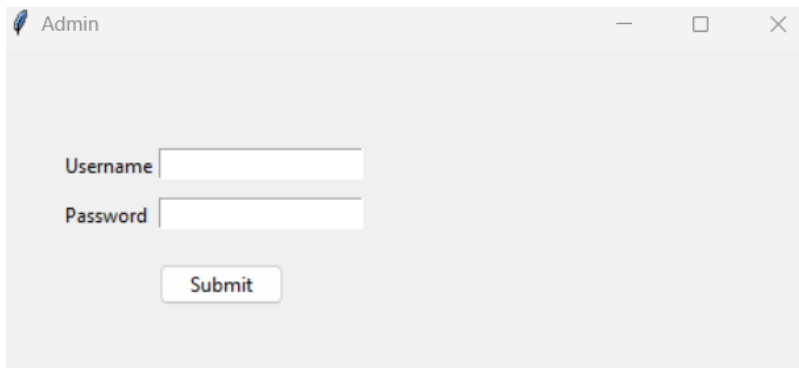

When the valid user has entered their ID, it will grand access to the user and display the message of their current status.

* In this case user just entered the SunLab
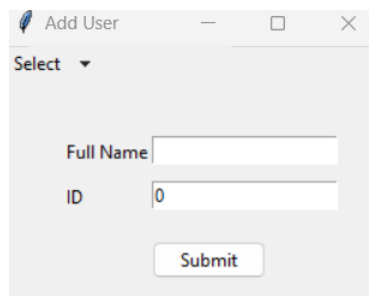

* In this case user just existed the SunLab

Admin

Once the admin opens the desktop app to manage the database, it will first ask for the admin's username and password. This is added for security reasons.

Admin

Username: [ ]

Password: [ ]

Submit

After the admin has entered the correct username and password, a new window pops up, named "Admin Home". In this window, admin is granted to modify and view the database.
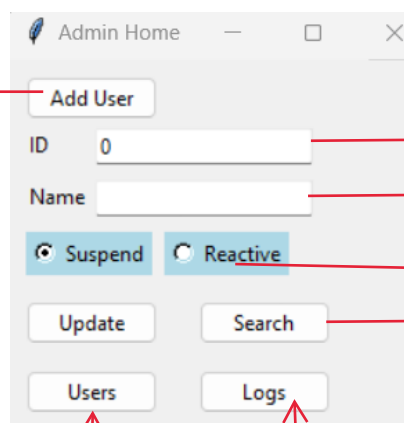
Add User

Select ▾

Full Name: [ ]

ID: [0]

Submit

Admin Home

Add User

ID: [0] → input for user's ID

Name: [ ] → input for user's name

⦿ Suspend   ○ Reactive → radio button that has two choices, "Suspend" and "Reactive", that update the user's status

Update   Search → "Search" allows admin to search the log history of user by ID or name
"Update" allows admin to update the user status, suspended or active, by user's ID

Users   Logs

"Add User" is where admin can activate user into the database. (Select given type of user, enter user's full name in the given field, and user's ID) Note* user is active after on submit
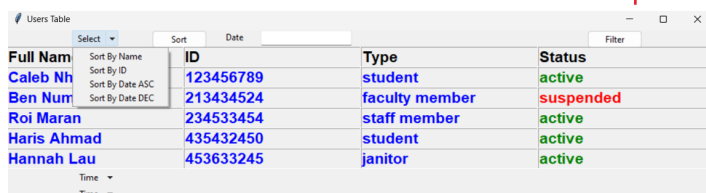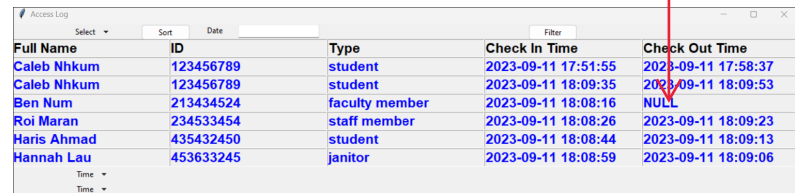
('NULL' indicate that user have not left the room)

"Users" return all the user in the database as shown below

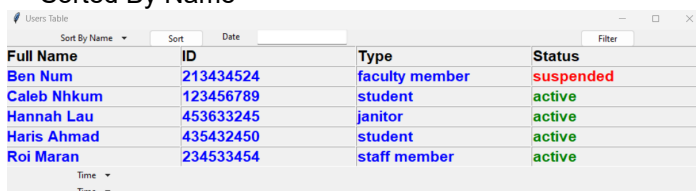| Full Name	ID	Type	Status
Caleb Nh	123456789	student	active
Ben Num	213434524	faculty member	suspended
Roi Maran	234533454	staff member	active
Haris Ahmad	435432450	student	active
Hannah Lau	453633245	janitor	active

"Logs" return all the log history as shown below

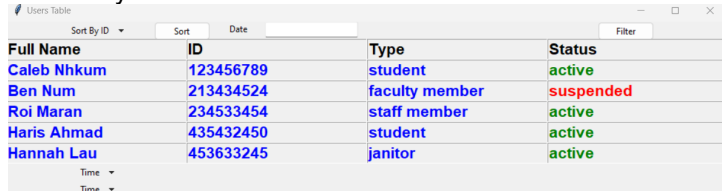| Full Name	ID	Type	Check In Time	Check Out Time
Caleb Nhkum	123456789	student	2023-09-11 17:51:55	2023-09-11 17:58:37
Caleb Nhkum	123456789	student	2023-09-11 18:09:35	2023-09-11 18:09:53
Ben Num	213434524	faculty member	2023-09-11 18:08:16	NULL
Roi Maran	234533454	staff member	2023-09-11 18:08:26	2023-09-11 18:09:23
Haris Ahmad	435432450	student	2023-09-11 18:08:44	2023-09-11 18:09:13
Hannah Lau	453633245	janitor	2023-09-11 18:08:59	2023-09-11 18:09:06

Note* In all the table windows, it contains sort fucntion(By name, id, date asc/dec) and filter by date and time range. Some of sort function and filter are disabled due to invalid data in the tabel.
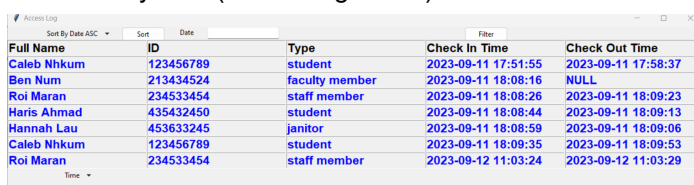

Sorted By Name

Full Name	ID	Type	Status
Ben Num	213434524	faculty member	suspended
Caleb Nhkum	123456789	student	active
Hannah Lau	453633245	janitor	active
Haris Ahmad	435432450	student	active
Roi Maran	234533454	staff member	active

Sorted By ID
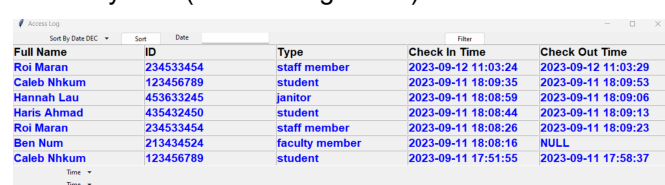
Full Name	ID	Type	Status
Caleb Nhkum	123456789	student	active
Ben Num	213434524	faculty member	suspended
Roi Maran	234533454	staff member	active
Haris Ahmad	435432450	student	active
Hannah Lau	453633245	janitor	active

Sorted By Date(Ascending Order)

Full Name	ID	Type	Check In Time	Check Out Time
Caleb Nhkum	123456789	student	2023-09-11 17:51:55	2023-09-11 17:58:37
Ben Num	213434524	faculty member	2023-09-11 18:08:16	NULL
Roi Maran	234533454	staff member	2023-09-11 18:08:26	2023-09-11 18:09:23
Haris Ahmad	435432450	student	2023-09-11 18:08:44	2023-09-11 18:09:13
Hannah Lau	453633245	janitor	2023-09-11 18:08:59	2023-09-11 18:09:06
Caleb Nhkum	123456789	student	2023-09-11 18:09:35	2023-09-11 18:09:53
Roi Maran	234533454	staff member	2023-09-12 11:03:24	2023-09-12 11:03:29

Sorted By Date(Descending Order)

Full Name	ID	Type	Check In Time	Check Out Time
Roi Maran	234533454	staff member	2023-09-12 11:03:24	2023-09-12 11:03:29
Caleb Nhkum	123456789	student	2023-09-11 18:09:35	2023-09-11 18:09:53
Hannah Lau	453633245	janitor	2023-09-11 18:08:59	2023-09-11 18:09:06
Haris Ahmad	435432450	student	2023-09-11 18:08:44	2023-09-11 18:09:13
Roi Maran	234533454	staff member	2023-09-11 18:08:26	2023-09-11 18:09:23
Ben Num	213434524	faculty member	2023-09-11 18:08:16	NULL
Caleb Nhkum	123456789	student	2023-09-11 17:51:55	2023-09-11 17:58:37

Filerted By Date

Filtered By Time

Full Name	ID	Type	Check In Time	Check Out Time
Caleb Nhkum	123456789	student	2023-09-11 17:51:55	2023-09-11 17:58:37
Caleb Nhkum	123456789	student	2023-09-11 18:09:35	2023-09-11 18:09:53
Ben Num	213434524	faculty member	2023-09-11 18:08:16	NULL
Roi Maran	234533454	staff member	2023-09-11 18:08:26	2023-09-11 18:09:23
Haris Ahmad	435432450	student	2023-09-11 18:08:44	2023-09-11 18:09:13
Hannah Lau	453633245	janitor	2023-09-11 18:08:59	2023-09-11 18:09:06

Filerted By Date and Time

Logs From Date: 2023-09-11 (Time: 18-18)

Full Name	ID	Type	Check In Time	Check Out Time
Caleb Nhkum	123456789	student	2023-09-11 18:09:35	2023-09-11 18:09:53
Ben Num	213434524	faculty member	2023-09-11 18:08:16	NULL
Roi Maran	234533454	staff member	2023-09-11 18:08:26	2023-09-11 18:09:23
Haris Ahmad	435432450	student	2023-09-11 18:08:44	2023-09-11 18:09:13
Hannah Lau	453633245	janitor	2023-09-11 18:08:59	2023-09-11 18:09:06

Search By Name

Search By Name: (caleb)

Full Name	ID	Type	Check In Time	Check Out Time
123456789	Caleb Nhkum	student	2023-09-11 17:51:55	2023-09-11 17:58:37
123456789	Caleb Nhkum	student	2023-09-11 18:09:35	2023-09-11 18:09:53

Search By ID

Search By ID: 435432450

Full Name	ID	Type	Check In Time	Check Out Time
Haris Ahmad	435432450	student	2023-09-11 18:08:44	2023-09-11 18:09:13

Error

Error — User: John, doesn't exist in the databse! OK

Error — User ID: 43543234, doesn't exist in the databse! OK

Update User

Add User

ID 435432450

Name John

( ) Suspend   ( ) Reactive

Update   Search

Users   Logs

Status Change — 435432450 is suspended! OK

Before

Users Table

Full Name	ID	Type	Status
Caleb Nh	123456789	student	active
Ben Num	213434524	faculty member	suspended
Roi Maran	234533454	staff member	active
Haris Ahmad	435432450	student	active
Hannah Lau	453633245	janitor	active

(Sort By Name / Sort By ID / Sort By Date ASC / Sort By Date DEC)

After suspended on (Haris Ahmad)

Users Table

Full Name	ID	Type	Status
Caleb Nhkum	123456789	student	active
Ben Num	213434524	faculty member	suspended
Roi Maran	234533454	staff member	active
Haris Ahmad	435432450	student	suspended
Hannah Lau	453633245	janitor	active

After reactivated on (Ben Num)

Users Table

Full Name	ID	Type	Status
Caleb Nhkum	123456789	student	active
Ben Num	213434524	faculty member	active
Roi Maran	234533454	staff member	active
Haris Ahmad	435432450	student	suspended
Hannah Lau	453633245	janitor	active

(Sort By Type of user)

Logs From Date: 2023-09-11

Full Name	ID	Type	Check In Time	Check Out Time
Caleb Nhkum	123456789	student	2023-09-11 17:51:55	2023-09-11 17:58:37
Caleb Nhkum	123456789	student	2023-09-11 18:09:35	2023-09-11 18:09:53
Haris Ahmad	435432450	student	2023-09-11 18:08:44	2023-09-11 18:09:13

Note (Trigger is added in SQL to recyle the data that are 5 years old)