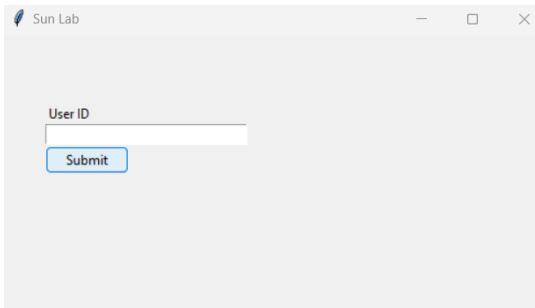
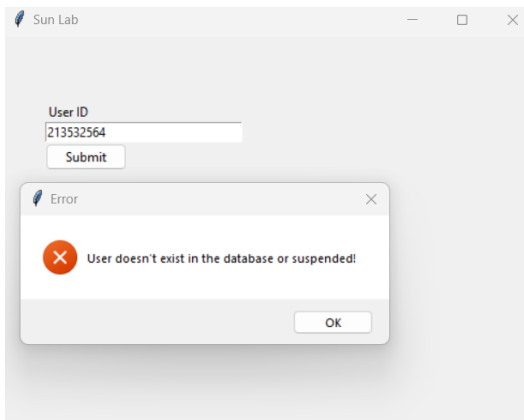


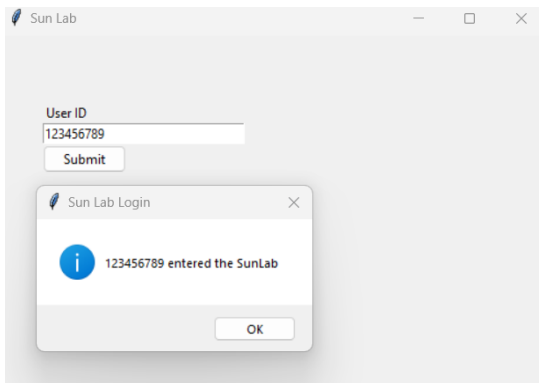
SunLab



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

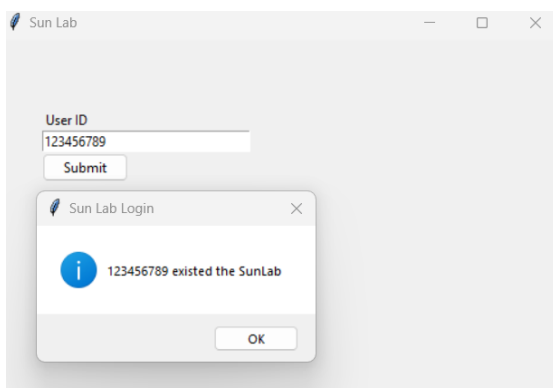


When the invilad ID or suspended user entered into the SunLab, it will prom the error and access will be denailed.



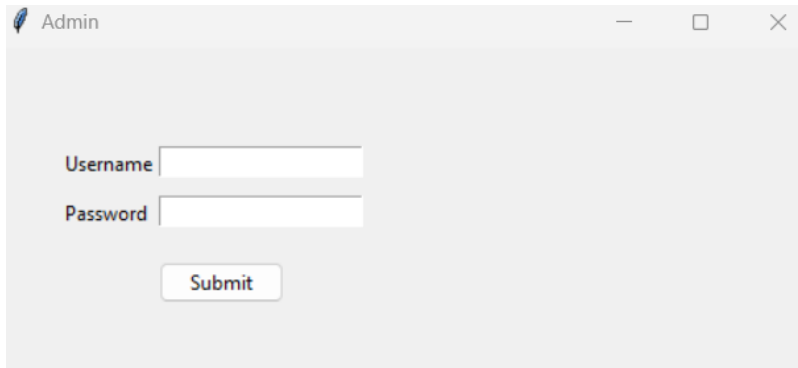
When the valid user is entered ID, it will grand the access to user and display the message of the user's current status.

* In this case user just entered the SunLab



* In this case user just existed the SunLab

Admin



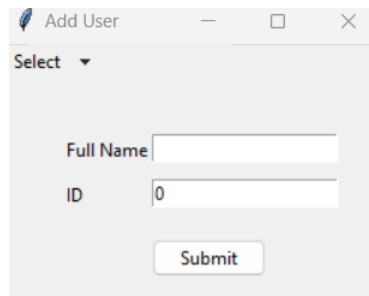
Admin

Username

Password

Once admin open the desktop app to manage database, firstly it will ask admin's username and password. This is added for the security reason.

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

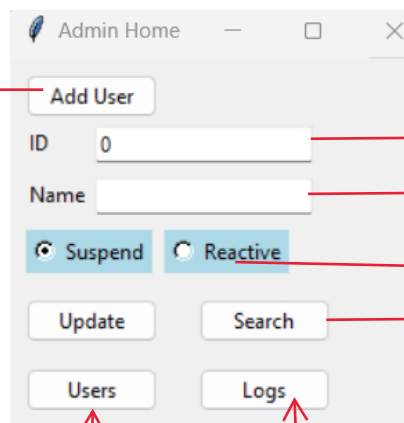


Add User

Select

Full Name

ID



Admin Home

ID

Name

☒ Suspend ☐ Reactive

input for user's ID

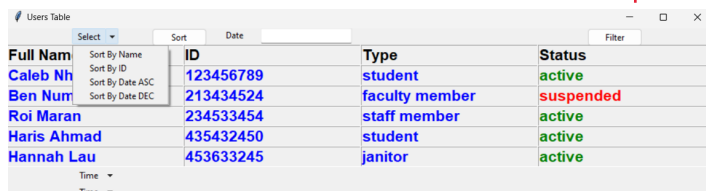
input for user's name

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

"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

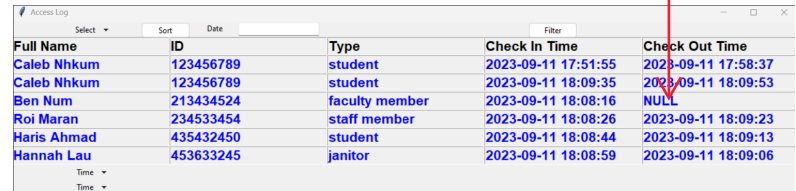
"Add User" is where admin can activate user into the database. (Select given type of user, enter user's full name in the given field, and user's ID) Note* user is active after on submit

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



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

"Logs" return all the log history as shown below

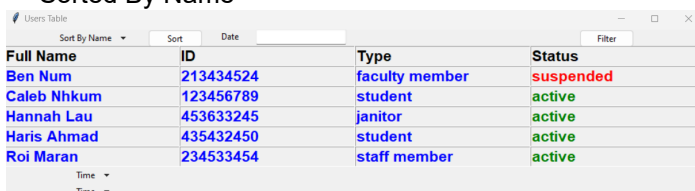


Full Name	ID	Type	Check In Time	Check Out Time
Caleb Nhkum	123456789	student	2023-09-11 17:51:55	2023-09-11 17:58:37
Caleb Nhkum	123456789	student	2023-09-11 18:09:35	2023-09-11 18:09:53
Ben Num	213434524	faculty member	2023-09-11 18:08:16	NULL
Roi Maran	234533454	staff member	2023-09-11 18:08:26	2023-09-11 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

(*NULL' indicate that user have not left the room)

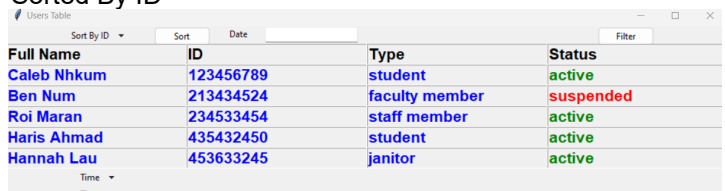
Note* In all the table windows, it contains sort function(By name, id, date asc/dec) and filter by date and time range. Some of sort function and filter are disabled due to invalid data in the tabel.

Sorted By Name



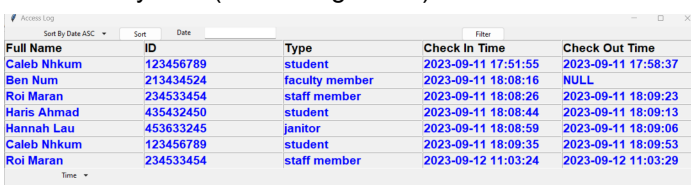
Full Name	ID	Type	Status
Ben Num	213434524	faculty member	suspended
Caleb Nhkum	123456789	student	active
Hannah Lau	453633245	janitor	active
Haris Ahmad	435432450	student	active
Roi Maran	234533454	staff member	active

Sorted By ID



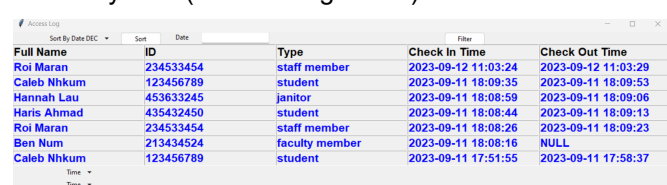
Full Name	ID	Type	Status
Caleb Nhkum	123456789	student	active
Ben Num	213434524	faculty member	suspended
Roi Maran	234533454	staff member	active
Haris Ahmad	435432450	student	active
Hannah Lau	453633245	janitor	active

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

Filtred By Date

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
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

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

Filtred By Date and Time

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

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

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

User: John, doesn't exist in the database!

User ID: 43543234, doesn't exist in the database!

Update User

Status Change

435432450 is suspended!

Before

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

After suspended on (Haris Ahmad)

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)

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

Update(Sort By Type of user)

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)