

CMPSC 487W, Project 1
Japheth Beiler, 13 September 2023

Here is a quick walkthrough of the functionalities of my project:

My three SQL Server Database tables are Users (all user data), AdminLog (login data for admin users), and Access (logs swipes in/out).

```
select * from Users;
```

100 %

Results Messages

	UserID	FirstName	LastName	IsActive
1	123456789	Japheth	Beiler	0
2	292929292	Abe	Lincoln	1
3	540000999	Night	King	1
4	777333567	Curious	George	1
5	865437906	Charlie	Brown	1
6	999945452	Ron	Walker	1

```
select * from AdminLogin;
```

100 %

Results Messages

	UserID	AdminPassword
1	292929292	AbeLincoln
2	777333567	CuriousGeorge
3	999945452	RonWalker

```
select * from Access;
```

100 %

Results Messages

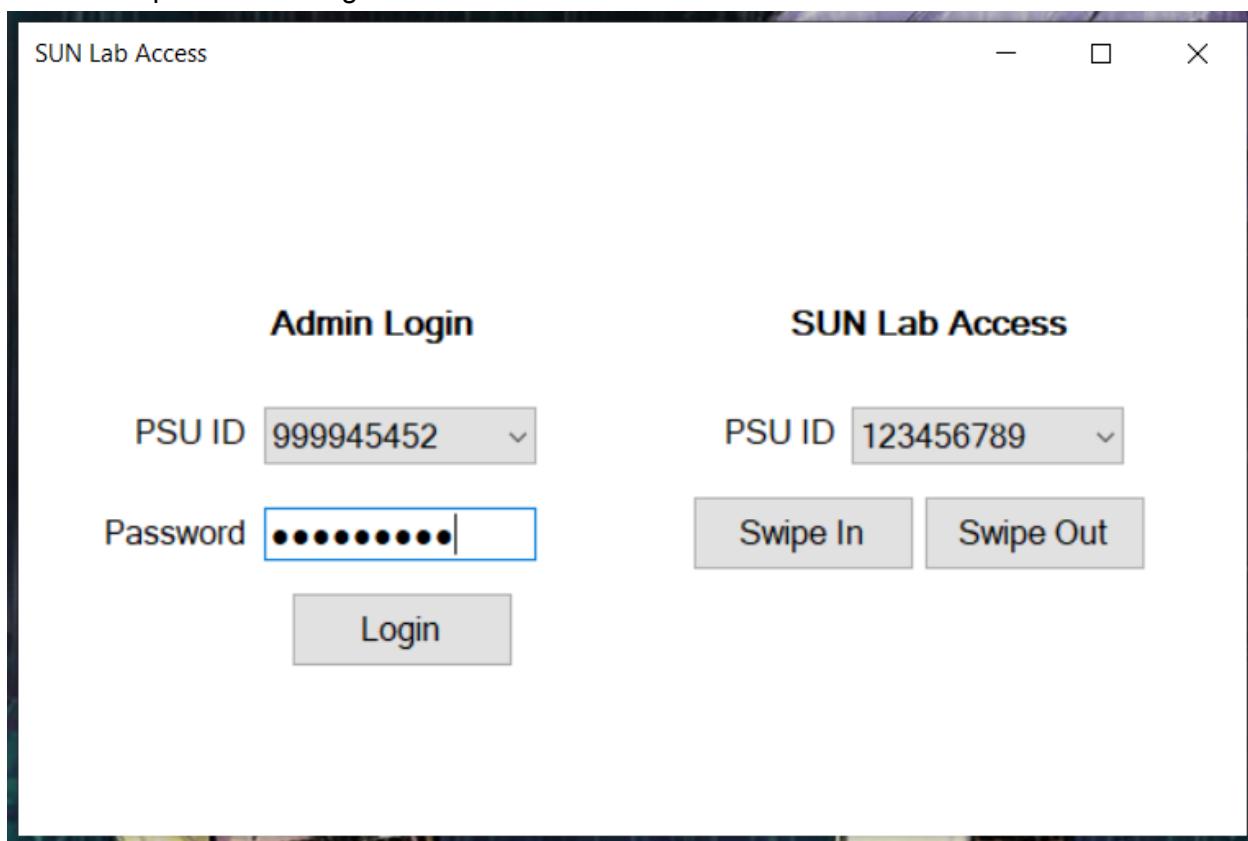
	AccessID	UserID	SwipeDatetime	SwipeInOut
1	1	999945452	2023-09-12 23:08:15.360	In
2	2	999945452	2023-09-12 23:08:17.880	Out
3	3	123456789	2023-09-12 23:08:21.230	In
4	4	292929292	2023-09-12 23:08:24.777	In
5	5	123456789	2023-09-12 23:08:28.943	Out
6	6	123456789	2023-09-12 23:08:33.870	Out
7	7	292929292	2023-09-13 08:39:11.490	Out
8	8	123456789	2023-09-13 08:39:22.230	Out
9	9	999945452	2023-09-13 09:18:32.130	In
10	10	999945452	2023-09-13 09:19:03.383	Out
11	11	292929292	2023-09-13 12:59:01.623	In
12	12	292929292	2023-09-13 12:59:05.180	Out
13	13	999945452	2023-09-13 13:03:57.810	In
14	14	999945452	2023-09-13 13:04:00.283	Out
15	15	123456789	2023-09-13 13:43:49.090	In
16	16	123456789	2023-09-13 13:43:51.397	Out
17	17	292929292	2023-09-13 14:23:48.767	In
18	18	292929292	2023-09-13 14:23:51.167	Out
19	19	123456789	2023-09-13 14:24:40.417	In
20	20	123456789	2023-09-13 14:24:42.947	Out
21	21	123456789	2023-09-13 14:28:07.063	In
22	22	123456789	2023-09-13 14:28:09.747	Out
23	23	123456789	2023-09-13 14:44:00.407	In
24	24	123456789	2023-09-13 14:44:41.833	Out
25	25	123456789	2023-09-13 15:31:19.090	In
26	26	123456789	2023-09-13 15:31:21.647	Out

This is the initial screen. The PSU ID combo box for Admin Login only displays admins IDs. The PSU ID combo box for SUN Lab Access displays all user IDs. Users can use the Swipe In and Swipe Out buttons to swipe in and out.

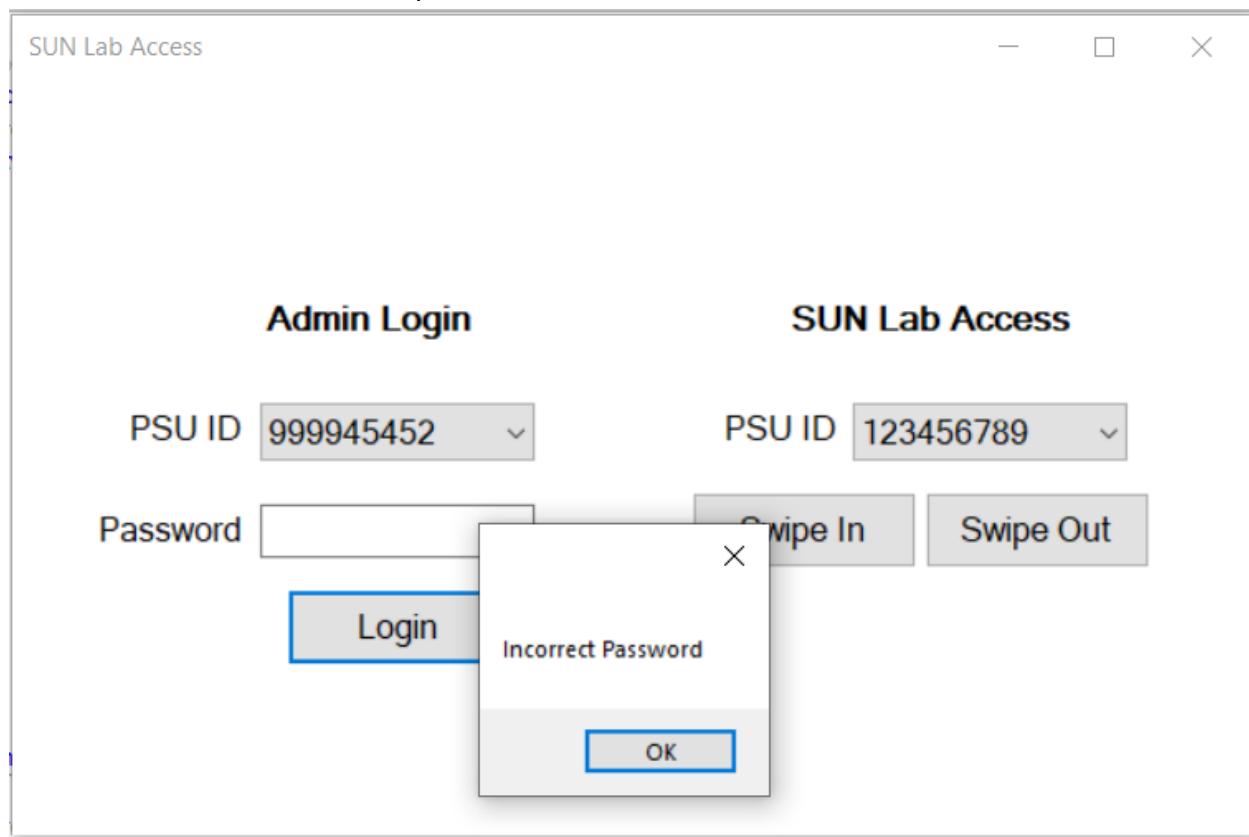
The screenshot shows a Windows application window titled "SUN Lab Access". The window has standard minimize, maximize, and close buttons at the top right. Inside, there are two main sections: "Admin Login" on the left and "SUN Lab Access" on the right. Both sections contain a "PSU ID" dropdown menu. The "Admin Login" section also includes a "Password" input field and a "Login" button. The "SUN Lab Access" section includes "Swipe In" and "Swipe Out" buttons.

Section	PSU ID	Action Buttons
Admin Login	292929292	None
SUN Lab Access	123456789	Swipe In Swipe Out

Here is the password being entered.



The admin user is alerted if the password is incorrect.



If the password is correct, the admin form opens. The admin user's name is shown in the upper left corner. The SUN Lab Access History and the SUN Lab Access Privileges data grid views are auto populated on the form load.

SUN Lab Access - Admin

User: Ron Walker

SUN Lab Access History			
PSU ID	Name	Date/Time	In/Out
865437906	Charlie Brown	9/13/2023 10:14 PM	Out
865437906	Charlie Brown	9/13/2023 10:14 PM	In
777333567	Curious George	9/13/2023 10:14 PM	Out
777333567	Curious George	9/13/2023 10:14 PM	In
292929292	Abe Lincoln	9/13/2023 10:14 PM	Out
292929292	Abe Lincoln	9/13/2023 10:14 PM	In
540000999	Night King	9/13/2023 10:14 PM	Out
E10000000	Next User	9/13/2023 10:14 PM	In

Show All History

Filter by PSU ID
123456789

Filter by Date/Time

Start Date (YYYY-MM-DD) -
End Date (YYYY-MM-DD) -

Start Time (HH:MM) :
End Time (HH:MM) :

Change SUN Lab Access Privileges
123456789

The access history can be filtered by PSU ID. The Filter by PSU ID combo box contains all the user IDs.

SUN Lab Access - Admin

User: Ron Walker

SUN Lab Access History

PSU ID	Name	Date/Time	In/Out
540000999	Night King	9/13/2023 10:14 PM	In
540000999	Night King	9/13/2023 10:14 PM	Out

Show All History

Filter by PSU ID

540000999

Filter by Date/Time

Start Date (YYYY-MM-DD) -

End Date (YYYY-MM-DD) -

Start Time (HH:MM) :

End Time (HH:MM) :

SUN Lab Access Privileges

PSU ID	Name	Is Acti
123456789	Japheth Beiler	<input checked="" type="checkbox"/>
292929292	Abe Lincoln	<input type="checkbox"/>
540000999	Night King	<input checked="" type="checkbox"/>

< >

Change SUN Lab Access Privileges

123456789

The access history can be filtered by date only.

SUN Lab Access - Admin

User: Ron Walker

SUN Lab Access History

PSU ID	Name	Date/Time	In/Out
999945452	Ron Walker	9/12/2023 11:08 PM	In
999945452	Ron Walker	9/12/2023 11:08 PM	Out
123456789	Japheth Beiler	9/12/2023 11:08 PM	In
292929292	Abe Lincoln	9/12/2023 11:08 PM	In
123456789	Japheth Beiler	9/12/2023 11:08 PM	Out
123456789	Japheth Beiler	9/12/2023 11:08 PM	Out

Show All History

Filter by PSU ID
123456789

Filter by Date/Time

Start Date (YYYY-MM-DD)

End Date (YYYY-MM-DD)

Start Time (HH:MM) :

End Time (HH:MM) :

SUN Lab Access Privileges

PSU ID	Name	Is Acti
123456789	Japheth Beiler	<input checked="" type="checkbox"/>
292929292	Abe Lincoln	<input checked="" type="checkbox"/>
540000999	Night King	<input type="checkbox"/>

Change SUN Lab Access Privileges
123456789

Return to Login

The access history can be filtered by time only.

SUN Lab Access - Admin

User: Ron Walker

SUN Lab Access History

PSU ID	Name	Date/Time	In/Out
999945452	Ron Walker	9/12/2023 11:08 PM	In
999945452	Ron Walker	9/12/2023 11:08 PM	Out
123456789	Japheth Beiler	9/12/2023 11:08 PM	In
292929292	Abe Lincoln	9/12/2023 11:08 PM	In
123456789	Japheth Beiler	9/12/2023 11:08 PM	Out
123456789	Japheth Beiler	9/12/2023 11:08 PM	Out
292929292	Abe Lincoln	9/13/2023 12:59 PM	In
200000000	Al Lichten	9/12/2023 12:59 PM	Out

Show All History

Filter by PSU ID
123456789

Filter by Date/Time

Start Date (YYYY-MM-DD) -

End Date (YYYY-MM-DD) -

Start Time (HH:MM) 11:15

End Time (HH:MM) 23:39

SUN Lab Access Privileges

PSU ID	Name	Is Acti
123456789	Japheth Beiler	<input checked="" type="checkbox"/>
292929292	Abe Lincoln	<input checked="" type="checkbox"/>
540000999	Night King	<input type="checkbox"/>

Change SUN Lab Access Privileges
123456789

The access history can be filtered by both date and time.

SUN Lab Access - Admin

User: Ron Walker

SUN Lab Access History

PSU ID	Name	Date/Time	In/Out
999945452	Ron Walker	9/12/2023 11:08 PM	In
999945452	Ron Walker	9/12/2023 11:08 PM	Out
123456789	Japheth Beiler	9/12/2023 11:08 PM	In
292929292	Abe Lincoln	9/12/2023 11:08 PM	In
123456789	Japheth Beiler	9/12/2023 11:08 PM	Out
123456789	Japheth Beiler	9/12/2023 11:08 PM	Out

Show All History

< >

Filter by PSU ID
123456789

Filter by Date/Time

Start Date (YYYY-MM-DD)

End Date (YYYY-MM-DD)

Start Time (HH:MM)

End Time (HH:MM)

SUN Lab Access Privileges

PSU ID	Name	Is Acti
123456789	Japheth Beiler	<input checked="" type="checkbox"/>
292929292	Abe Lincoln	<input checked="" type="checkbox"/>
540000999	Night King	<input type="checkbox"/>

< >

Change SUN Lab Access Privileges
123456789

The user can use the Show All History button at any time to show all the access history.

SUN Lab Access - Admin

User: Ron Walker

SUN Lab Access History

PSU ID	Name	Date/Time	In/Out
865437906	Charlie Brown	9/13/2023 10:14 PM	Out
865437906	Charlie Brown	9/13/2023 10:14 PM	In
777333567	Curious George	9/13/2023 10:14 PM	Out
777333567	Curious George	9/13/2023 10:14 PM	In
292929292	Abe Lincoln	9/13/2023 10:14 PM	Out
292929292	Abe Lincoln	9/13/2023 10:14 PM	In
540000999	Night King	9/13/2023 10:14 PM	Out
E40000000	Next User	9/13/2023 10:14 PM	In

Show All History

Filter by PSU ID
123456789

Filter by Date/Time

Start Date (YYYY-MM-DD)

End Date (YYYY-MM-DD)

Start Time (HH:MM)

End Time (HH:MM)

SUN Lab Access Privileges

PSU ID	Name	Is Acti
123456789	Japheth Beiler	<input checked="" type="checkbox"/>
292929292	Abe Lincoln	<input checked="" type="checkbox"/>
540000999	Night King	<input type="checkbox"/>

Change SUN Lab Access Privileges
123456789

The Change SUN Lab Access Privileges combo box holds all the user IDs. Clicking the Change button reverses the Access status of whichever user ID is selected. Note that Abe Lincoln is no longer active, and that Night King is now active.

SUN Lab Access - Admin

User: Ron Walker

SUN Lab Access History			
PSU ID	Name	Date/Time	In/Out
865437906	Charlie Brown	9/13/2023 10:14 PM	Out
865437906	Charlie Brown	9/13/2023 10:14 PM	In
777333567	Curious George	9/13/2023 10:14 PM	Out
777333567	Curious George	9/13/2023 10:14 PM	In
292929292	Abe Lincoln	9/13/2023 10:14 PM	Out
292929292	Abe Lincoln	9/13/2023 10:14 PM	In
540000999	Night King	9/13/2023 10:14 PM	Out
540000999	Night King	9/13/2023 10:14 PM	In

Show All History

Filter by PSU ID
123456789

Filter by Date/Time

Start Date (YYYY-MM-DD)

End Date (YYYY-MM-DD)

Start Time (HH:MM)

End Time (HH:MM)

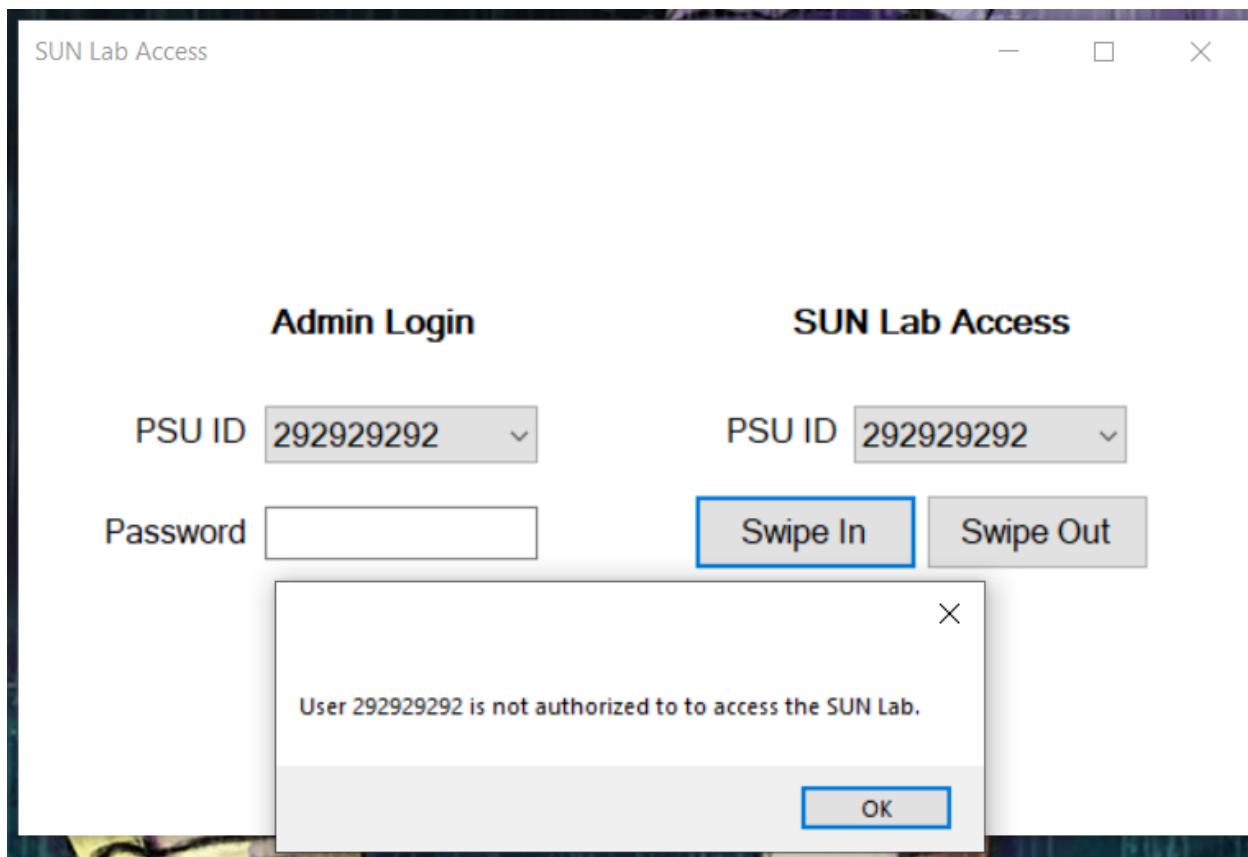
SUN Lab Access Privileges

PSU ID	Name	Is Acti
123456789	Japheth Beiler	<input checked="" type="checkbox"/>
292929292	Abe Lincoln	<input type="checkbox"/>
540000999	Night King	<input checked="" type="checkbox"/>

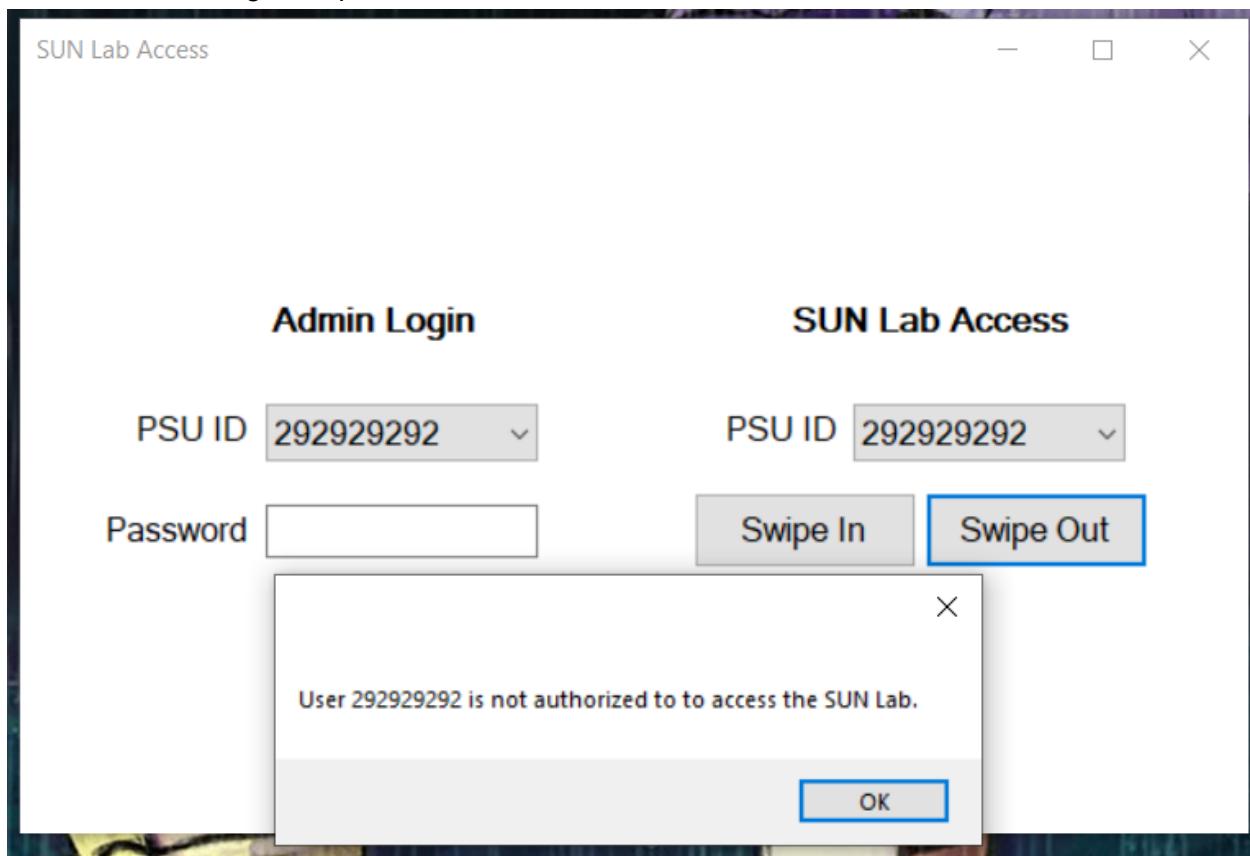
Change SUN Lab Access Privileges
540000999

The Return to Login button returns the user to the initial form.

Now that Abe Lincoln's (ID 292929292) status has changed, he can no longer swipe into the SUN Lab.



He can also no longer swipe out.



This is the end of the walkthrough.