



IST 659 - PROJECT PRESENTATION

SYRACUSE UNIVERSITY
DEPARTMENT OF PUBLIC SAFETY

- Rashika Singh



BUSINESS PROBLEM

- There are student employees who work for Security of residential halls
- In certain case where a student wishes to drop a shift, he must visit the office and enter his shift in the sub-book which is maintained for shifts
- The entire process consumes time and is problematic when a person is unable to visit the office
- This is a difficult task for both the employees and the managers



SOLUTION

- The project creates an automated system for maintaining the shift schedule for managers and employees through a database
- An account holder can be an employee or a manager
- The database allows an employee to add, drop, pick and view his schedule
- The manager can use the database to give approval to the employee dropping his shift and supervising over the shifts

DATA QUESTIONS



How many employees are working at a hall?



What are the shift timings for an employee?



How many employees are working at a hall at a time?



What are the number of hours an employee is working?



Is the reason for dropping a shift valid?



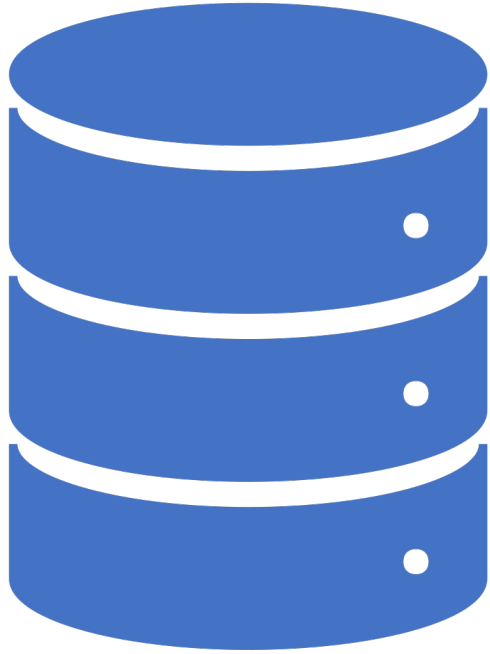
Has the student arrived for his shift?



Is the student receiving the pay for the number of hours he is working?



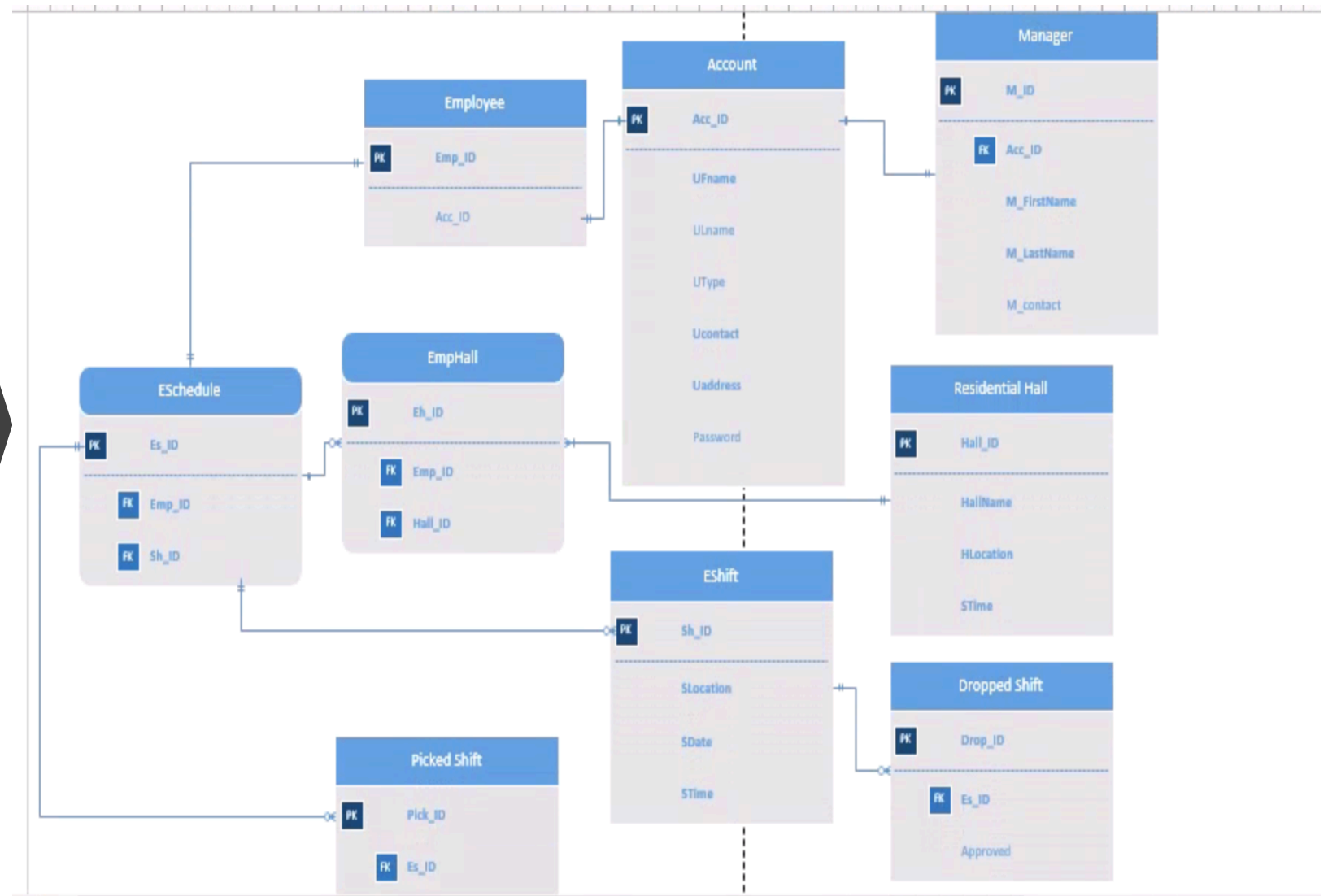
Has the person who picked up the shift arrived for the shift?



DATABASE

- Account
- Residential Halls
- Employee
- Manager
- Employee Schedule
- Employee Shift
- Employee Hall
- Dropped Shift
- Picked Shift

ERD DIAGRAM



DATA QUESTIONS

- Display employee ID and details

```
select a.UFname,a.ULname ,e.Emp_ID  
from Account a inner join Employee e  
on e.Acc_ID=a.Acc_ID
```

100 %

Results

Messages

	UFname	ULname	Emp_ID
1	Rashika	Singh	Em00
2	Alex	Shaw	Em01
3	Sue	Hopkins	Em04

DATA QUESTIONS

- Display the shifts filtered by location

```
select Sh_ID,STime,SDate  
from EShift  
where SLocation='Kimmel'
```

100 %

Results

Messages

	Sh_ID	STime	SDate
1	S103	1:15am-6am	2019-01-19

SAMPLE OF DATABASE

- Account

- EShift

Results		Messages						
	Acc_ID	Ufname	Ulname	UType	Ucontact	Uemail	Uaddress	password
1	A1000	Rashika	Singh	Employee	3158802081	rsingh37@syr.edu	118 Concord	rsingh
2	A1001	Alex	Shaw	Employee	3158802568	ashaw@syr.edu	103 Trinity	alex12
3	A1002	Kareen	John	Manager	3156759021	karen55@syr.edu	1021 Harvard	karjoh
4	A1003	Sue	Hopkins	Employee	3158651244	suehop@syr.edu	159 Westcott	sue123
5	A1004	Rahul	Rathod	Manager	3156799859	mrathod@syr.edu	100 Comstock	rahul_

Results		Messages		
	Sh_ID	SLocation	STime	SDate
1	S100	Walnut	4:45pm-8pm	2019-05-10
2	S101	Waverly	7:45-1am	2019-07-22
3	S103	Kimmel	1:15am-6am	2019-01-19
4	S104	Haven	7:45pm-1am	2019-04-12
5	S111	Emie	4:45pm-8pm	2019-11-10

SAMPLE OF DATABASE

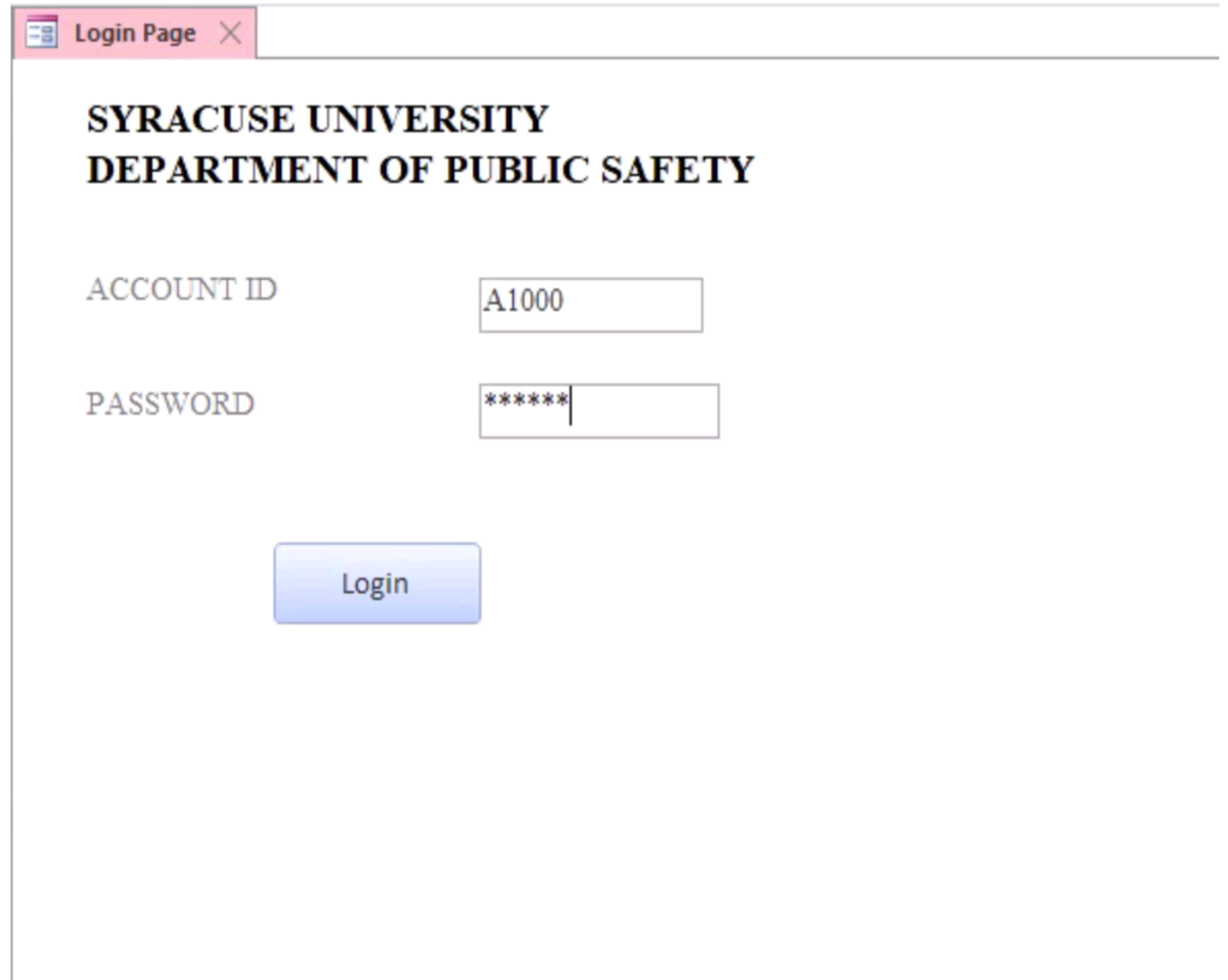
- Residential Halls
- Manager

	Hall_ID	HLocation	HName	STime
1	H001	Van Buren	Brockway	4:45pm-8pm
2	H002	College Pl	Walnut	1:30am-6am
3	H003	Comstock	Haven	4:45pm-8pm
4	H004	Waverly	Kimmel	4:45pm-8pm
5	H005	Euclid	Watson	7:45pm-1am

	M_ID	Acc_ID	M_FirstName	M_LastName	M_contact
1	M100	A1002	Kareen	John	3156759021
2	M101	A1004	Rahul	Rathod	3156799859

FORMS

- Login page



The screenshot shows a web browser window with a single tab titled "Login Page". The page content is as follows:

SYRACUSE UNIVERSITY
DEPARTMENT OF PUBLIC SAFETY

ACCOUNT ID

PASSWORD

FORMS

- User Information

User Information

First Name

Last Name

User type

Contact

Email Address

Address

FORMS

- Shift details

Shift Details

Location

Walnut

Time

4:45pm-8pm

Date

2019-05-10

Shift ID

S100

Drop Shift

FORMS

- Add new shift

Shift Location

Date

Time

New Shift

FORMS

- Residential Halls

Residential Halls

Location

Van Buren

Name

Brockway

Time

4:45pm-8pm

REPORTS

- Displaying grouping by managers and employees

Account

UType	Ufname	Ulname	Ucontact	Uemail	Uaddress
Employee	Alex	Shaw	3158802568	ashaw@syr.edu	103 Trinity
	Rashika	Singh	3158802081	rsingh37@syr.edu	118 Concord
	Sue	Hopkins	3158651244	suehop@syr.edu	159 Westcott
Manager	Kareen	John	3156759021	karen55@syr.edu	1021 Harvard
	Rahul	Rathod	3156799859	rnathod@syr.edu	100 Comstock

REPORTS

- Displaying the list of shifts arranged by hall ID

ResidentialHalls

Hall_ID	HLocation	HName	STime
H001	Van Buren	Brockway	4:45pm-8pm
H002	College Pl	Walnut	1:30am-6am
H003	Comstock	Haven	4:45pm-8pm
H004	Waverly	Kimmel	4:45pm-8pm
H005	Euclid	Watson	7:45pm-1am

TRIGGER

- Add a shift to the shift schedule after it is approved by manager

Results		Messages			
	Drop_ID	Approved	ES_ID	Pick_ID	ES_ID
1	D258	Yes	Sc01	P200	Sc01
2	D260	Yes	Sc05	P202	Sc05



SUMMARY

- The project is a centralized database which can be accessed by both the managers and employees
- The manager can supervise over all the employees and the employee can use the application to drop the shifts and pick shifts which are dropped if he is free
- The entire process of management of shifts can be done efficiently using the database