

Problem

Scheduling in Pinecrest PD is done by hand using spreadsheets and binders with all the information, and bids are handled manually with officers having to be contacted one by one.

The daily roster (P-Sheet) must also be manually built and then shared with the department each day.



Current System

Everything from bidding, to overtime, and days off is all done manually using pen and paper as well as spreadsheets to help make it more efficient.

All the processing of the data is done by hand by the schedule keeper and the bidding must be done by officers communicating with schedule keeper either on the phone or in person.

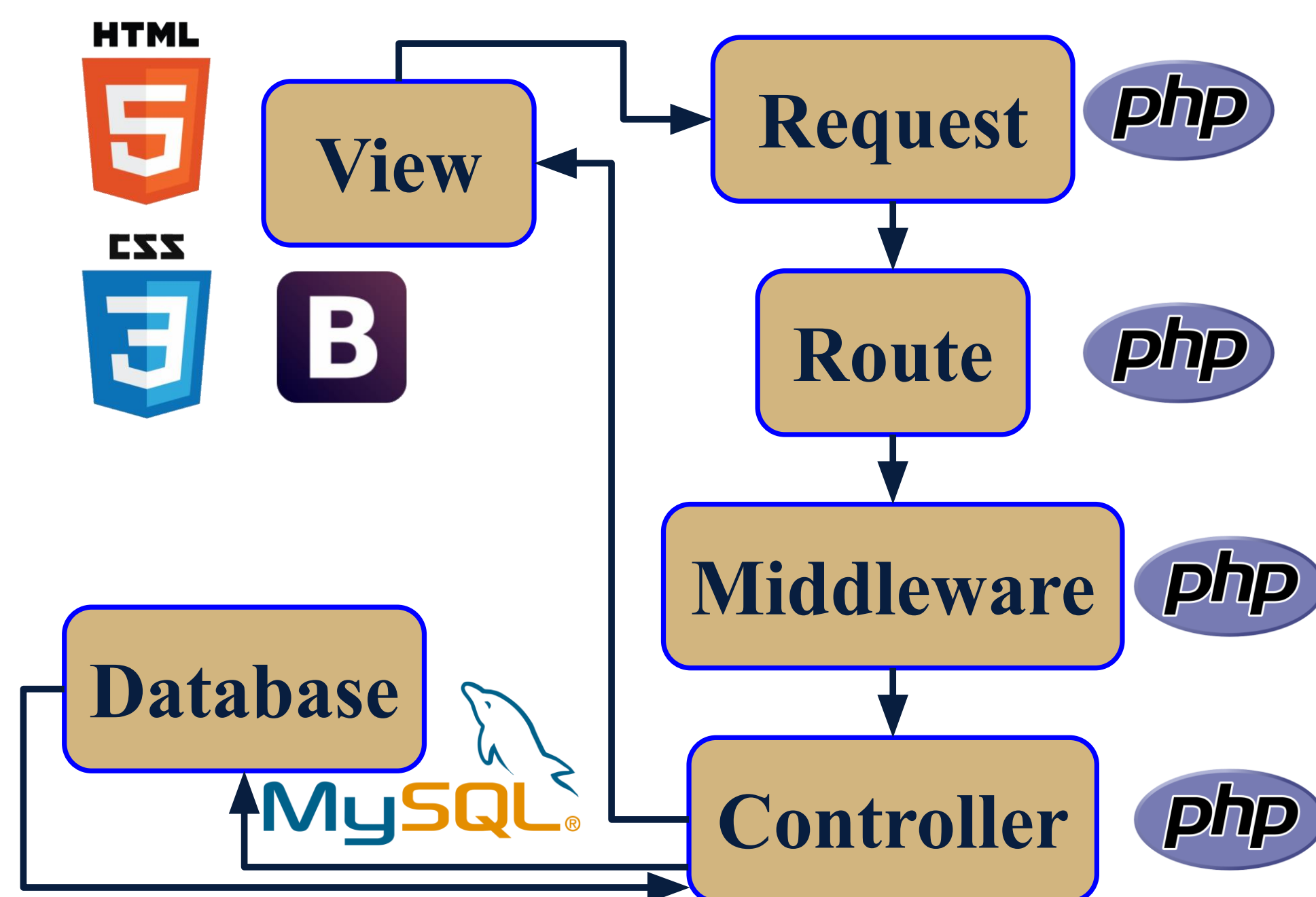
Requirements

Create, change, and delete users, roles, specialties(bidding groups), schedules, shifts, tempoary changes, and additional details.

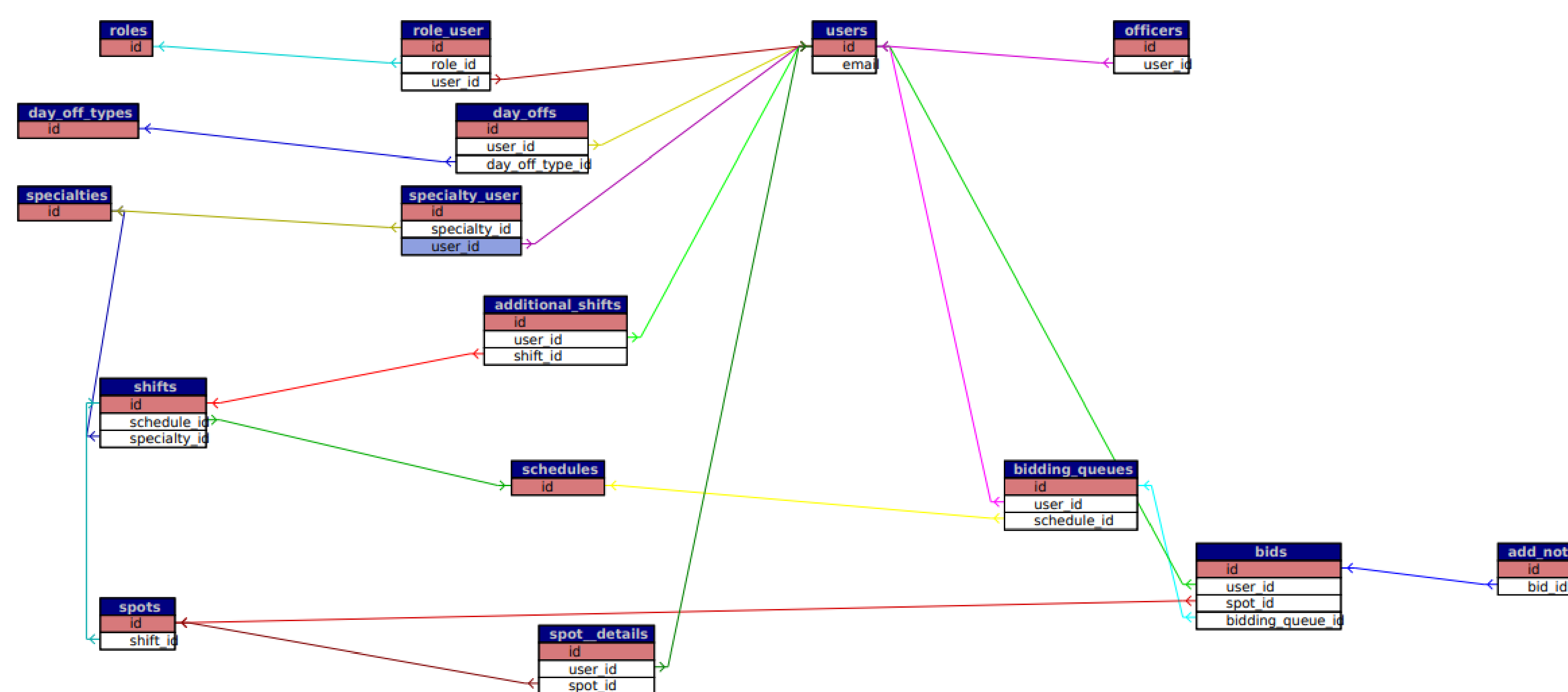
Set bidding order per group manually, notify officers of their turn to bid, and allow admins to bid for officers.

Daily roster viewable to all officers.

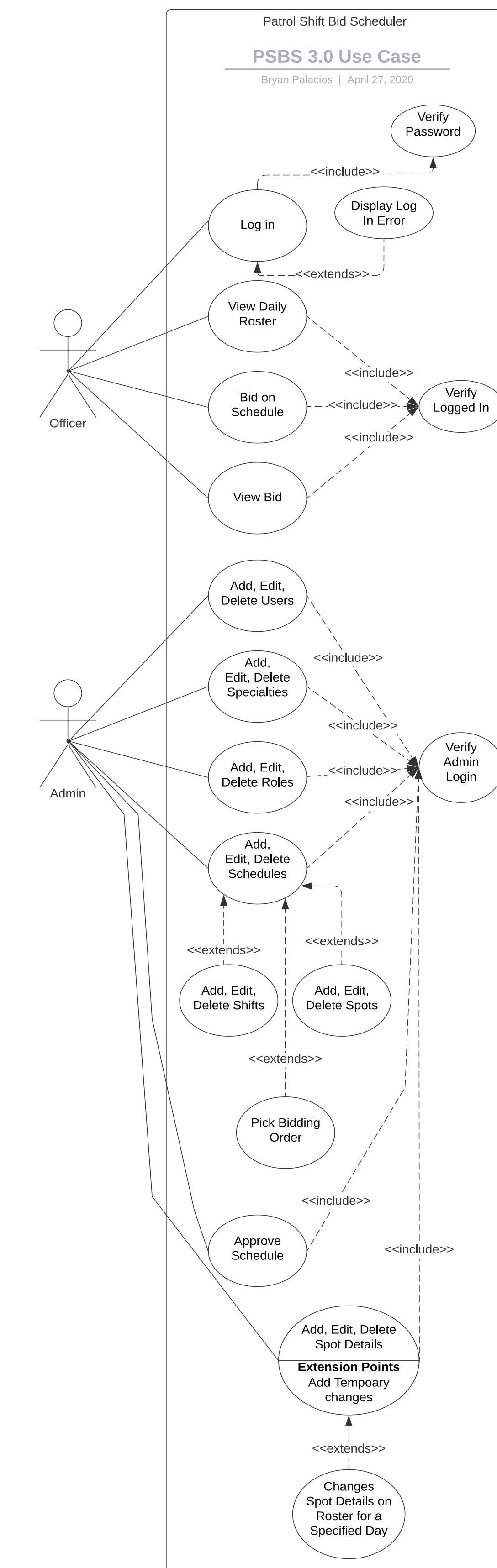
System Design



Object Design



Use Case Diagram



Screenshots

All Specialties

BTO

Shift Name: Ayo

Spot	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday
1	01:01:00 14:02:00	OFF	OFF	OFF	OFF	OFF	OFF
Users	Unit	Emergency #	Vehicle	Zone			
bob	1	1	1	4	Add	Temp change	
Root User	404	2	2	1	Add	Temp change	

Cancel Approve

Temp Override (only for selected date)

Unit Number

Emergency Number

Vehicle Number

Zone

Additional Note

Date

Add

Summary

Completed Features:

- Timepicker for shifts
- Manual bidding queue order by number
- Additional details seperated from user
- Tempoary changes to said additional details for daily roster

Acknowledgement

The material presented in this poster is based upon the work supported by the Pinecrest Police Department. I thank Dr. Masoud Sadjadi, Sergeant Heather Schry, and Chief Samuel Ceballos, Jr. for assistance, cooperation and mentorship that I received throughout this process.