

Patrol Shift Bid Scheduler v3.0

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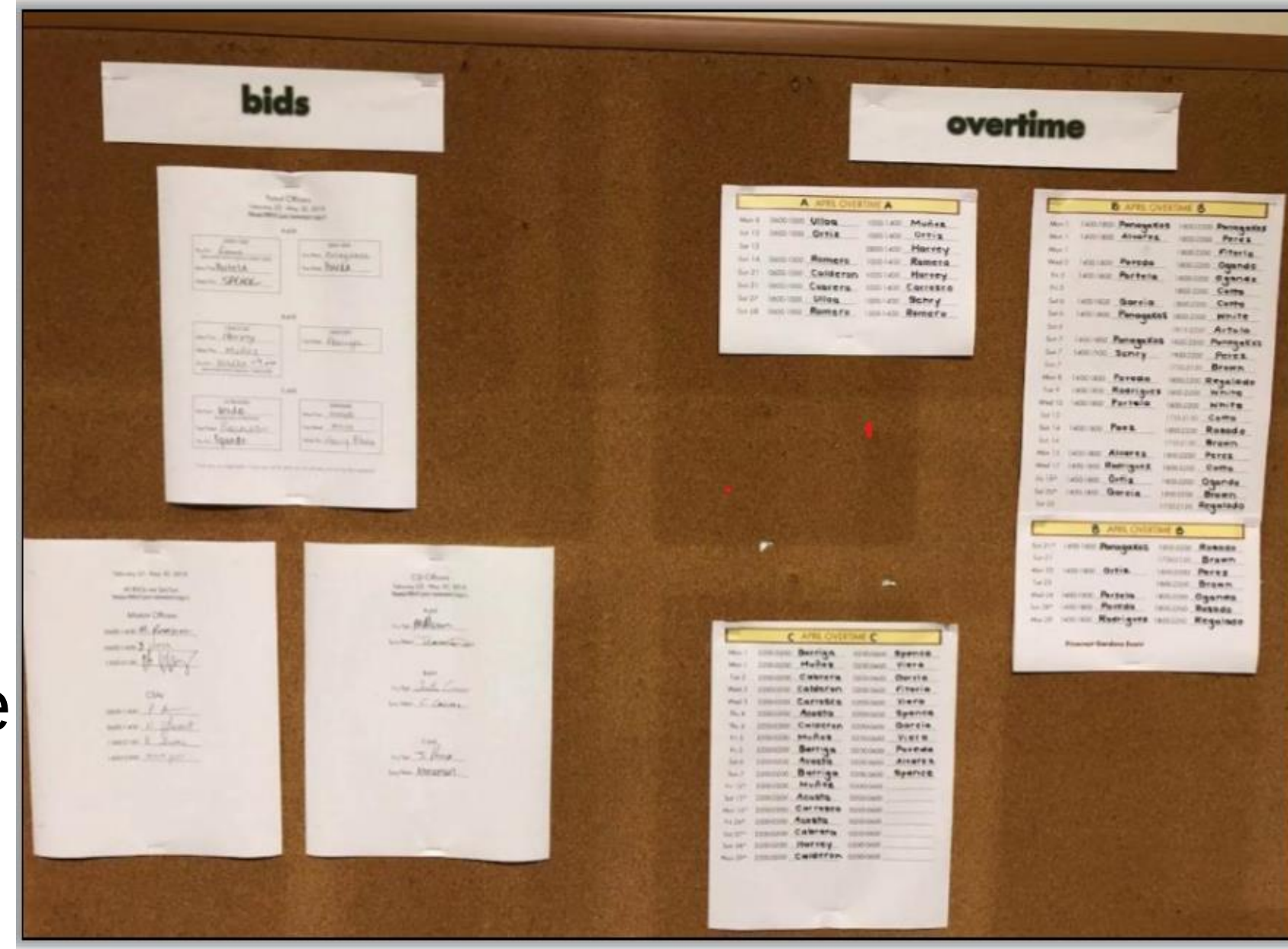


Problem

- Unorganized bidding system and shift assignments to officers in a queue. Human error at assigning shifts to officers by forgetting their seniority and bypassing their time in queue.
- Ineffective time management due to officers having to contact the person in charge of the schedule and request desired shift.
- Delayed time assigning shifts to officers in queue, due to communication setback between scheduler & officers.

Current System

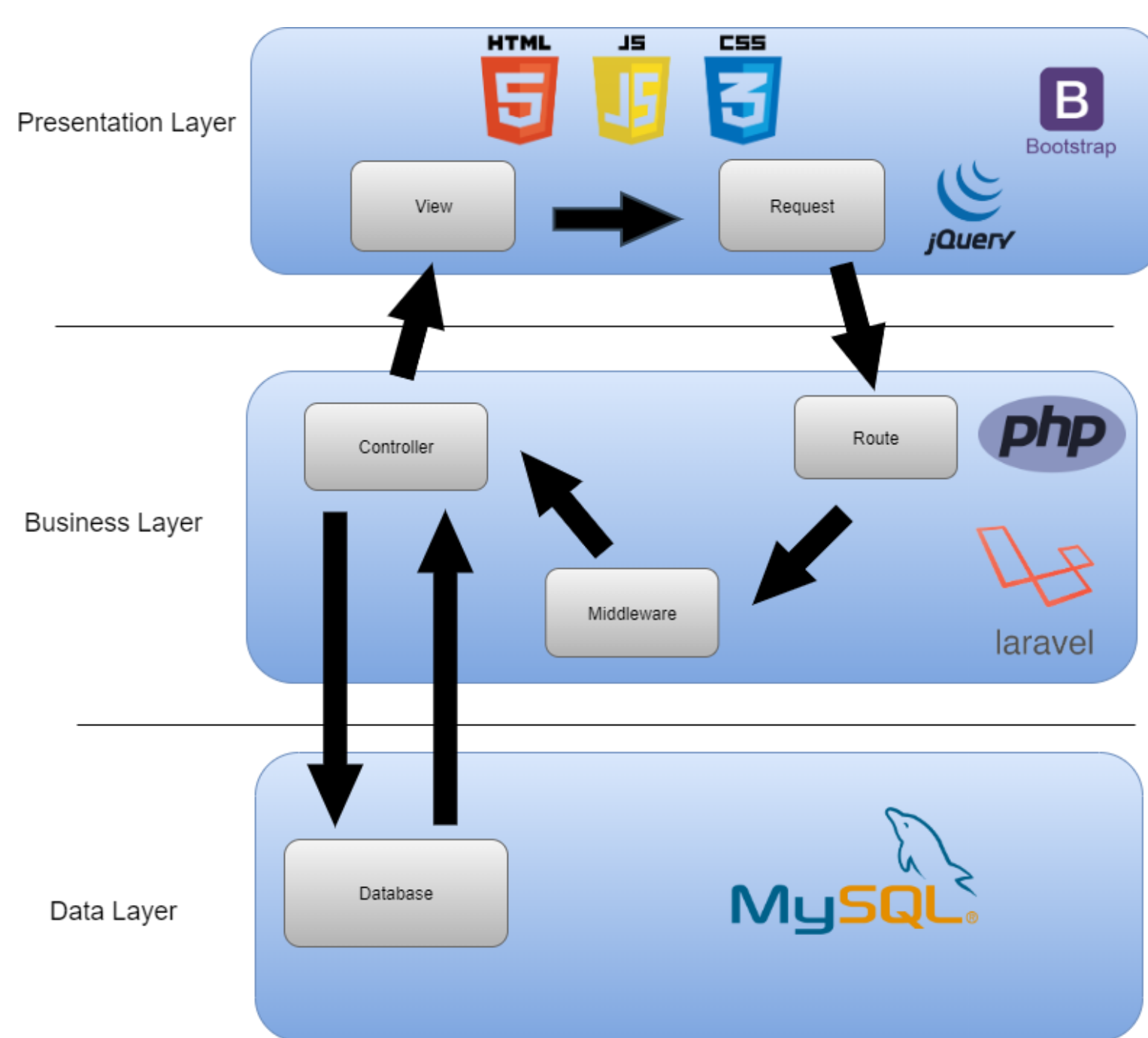
- There is an assigned schedule keeper that does all processes manually.
- Bid request is done in person on a board or over the phone when person is not present.
- Schedule keeper must generate a hard copy of the bid request, using a spreadsheet.
- Work schedule has to be efficiently updated and printed everyday by the schedule keeper for dispatch usage.



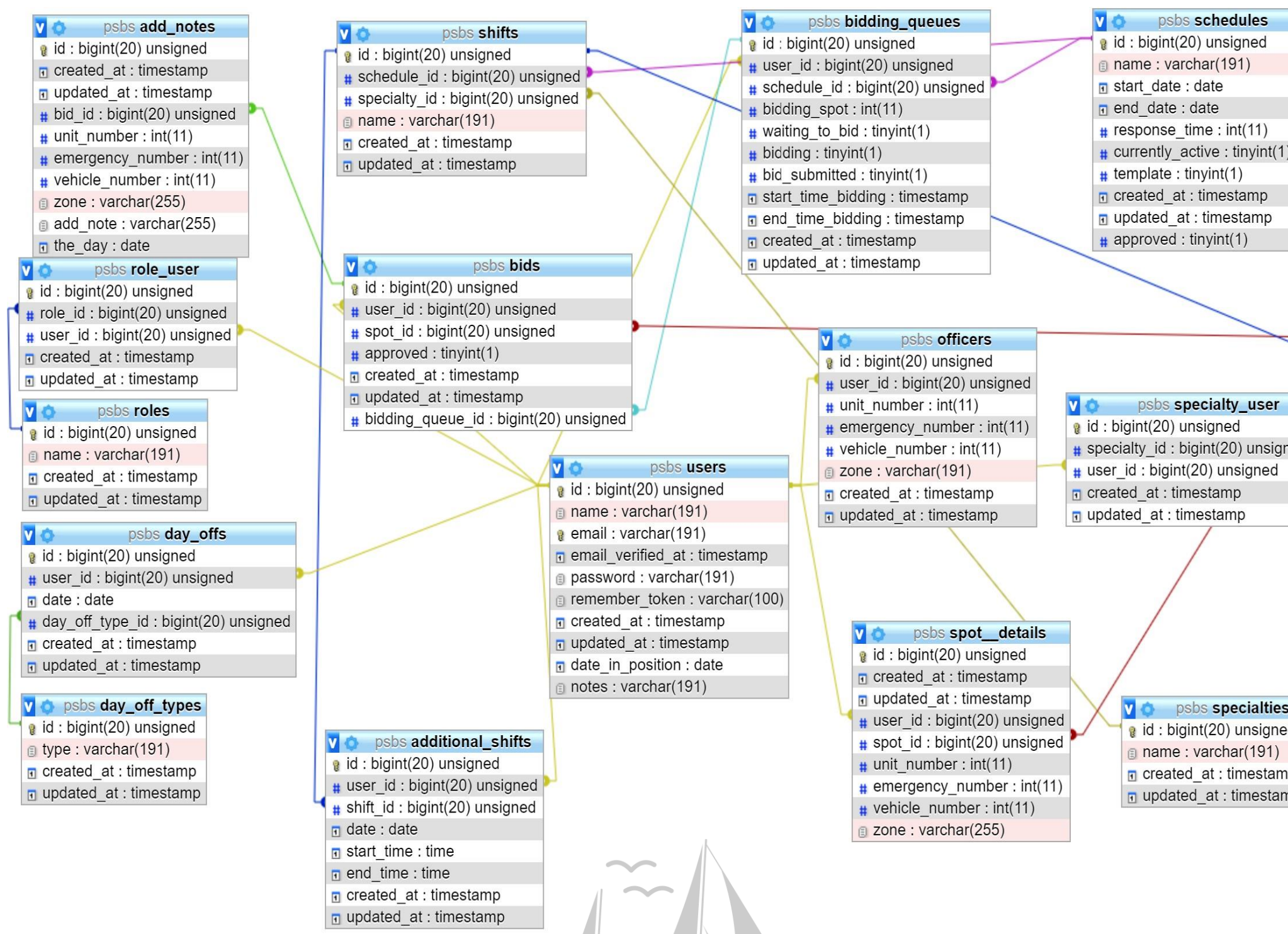
Requirements

- Ability to Edit the Schedule
- Assign certain details before approving schedule
- View Notes on Daily Roster
- Make Temporary Changes on schedule
- User Management Input
- Renaming of specialties management to group management

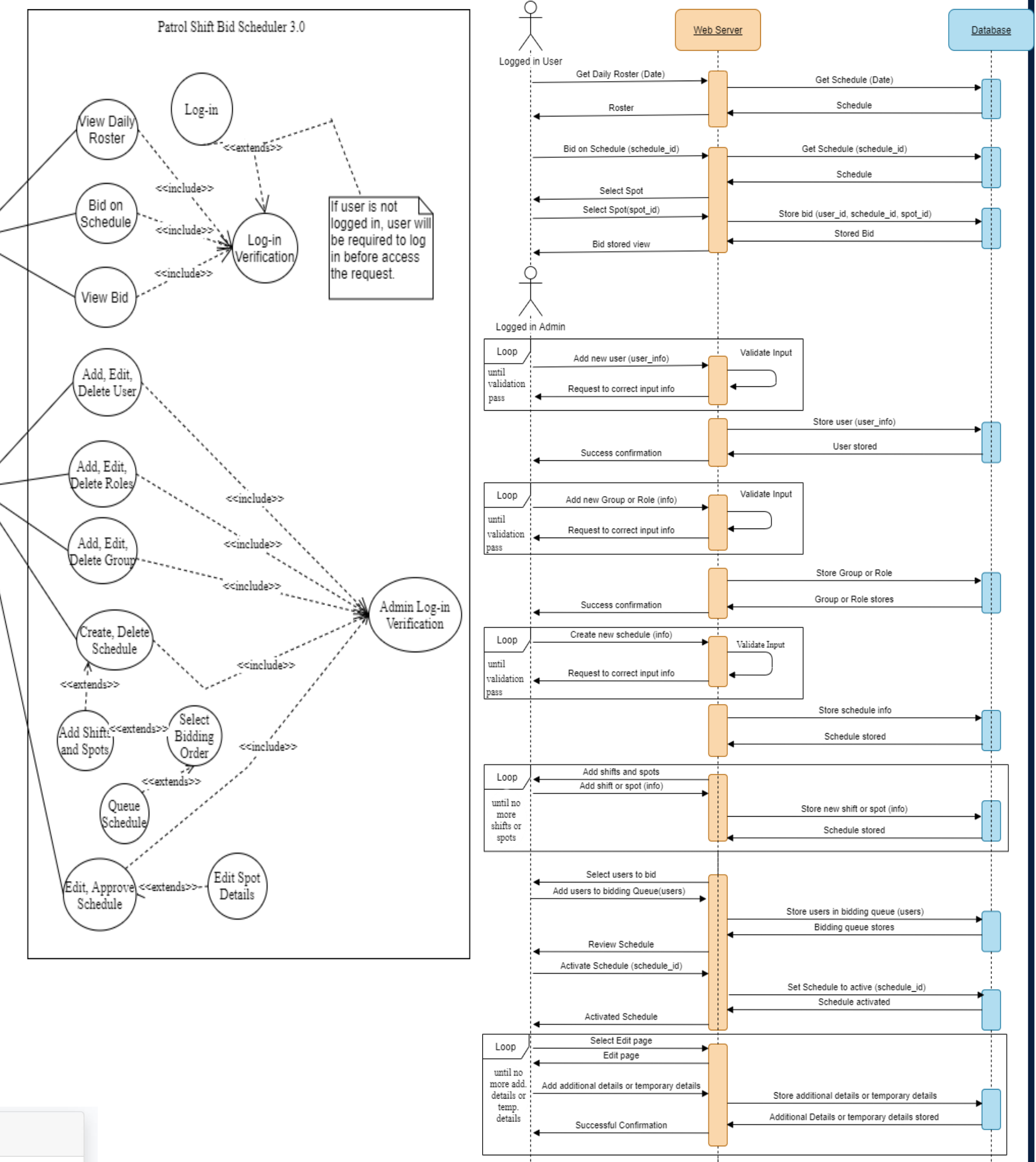
System Design



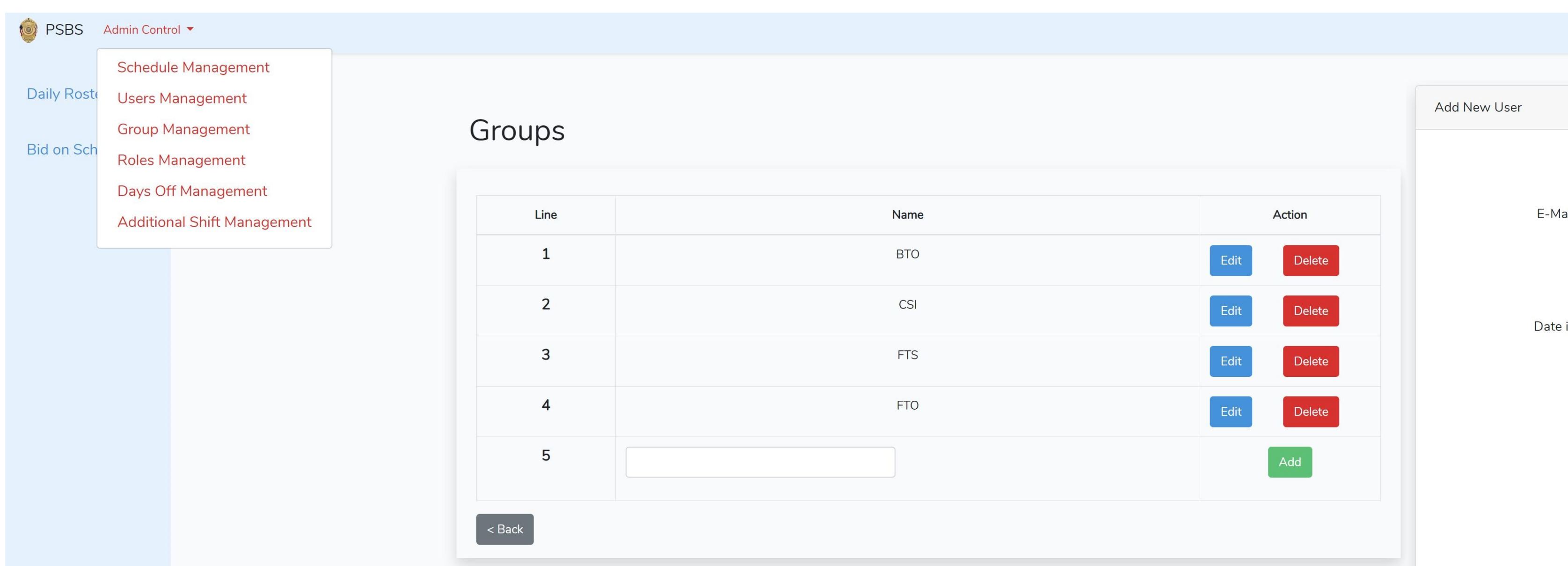
Object Design



Use Case & Sequence Diagrams



Implementation



List of all Users

#	Name	Email	Role	Date in Position	Groups	Notes	Actions
1	Root User	root@root.com	root	01-01-2000	BTO	Detective & School Patrol	Edit Delete
2	Admin User	admin@admin.com	admin	01-01-2001	CSI		Edit Delete
3	Supervisor User	supervisor@supervisor.com	supervisor	01-01-2002	FTS		Edit Delete
4	Officer User	officer@officer.com	officer	01-01-2003	FTO	Testing Notes	Edit Delete
5	User	user@user.com	user	01-01-2004	FTO		Edit Delete

Schedules

Name	Start Date	End Date	Response Time	Status	Action
test	12-20-2019	02-20-2020	1 hours	Approved	View Edit Delete
test3	03-02-2020	04-20-2020	1 hours	Approved	View Edit Delete
Schedule 1	02-15-2020	04-15-2020	1 hours	Active	Queue Approve Delete

Summary

Completed Features:

- Ability to Edit the Schedule
- View Notes on Daily Roster
- User Management Input
- Renaming of specialties management to group management

Acknowledgement

The material presented in this poster is based upon the work supported by Pinecrest Police Department. My teammate and I thank Samuel Ceballos, Heather Schry, and Frank Alvarado for assistance, cooperation and mentorship that we received throughout the senior design project.