



# Virtual Roll Call Briefing 5.0

Fall 2018 Senior Project  
Student: Grace Deehl, Florida International University  
Mentors: Jason Cohen, Frank Alvarado, Pinecrest Police Department  
Instructor: Dr. Masoud Sadjadi, Florida International University



## Problem: In-Person Briefing

At the beginning and end of each shift at the Pinecrest Police department, shift supervisors share critical information and assign tasks to officers during a brief meeting called 'Roll Call'.

- Schedule conflicts interfering with ability to meet in-person
- Document distribution and assignment difficult on paper
- Difficult to share documentation that arises mid-day
- No way to hold officers accountable for reviewing information

## Solution: Virtual Roll Call Briefing

The Virtual Roll Call Briefing application facilitates daily briefings online, aiding in convenience, efficiency, and accessibility. Officers can also review Watch Orders using application's map.

- Replaces in-person meeting with online repository of documents to be reviewed by officers on the field throughout their shift
- Supervisors can review the documents individual officers have viewed
- Enhance current features and resolve response time issues

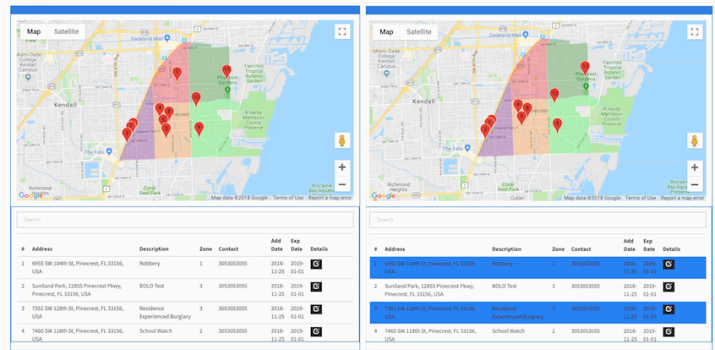
## Current System & Contributions

The Pinecrest Police Department currently has Virtual Roll Call Briefing 4.0 in production with its users. In order to optimize the already functioning application and maintain feature dependencies, my contributions to Version 5.0 were:

- Refactored Watch Orders feature
- Updated to accommodate Google Maps API dependencies
- Add/Remove by Supervisor, single and batch
- View and Track by Officer, reflected on map
- UX/UI optimization
- Optimized Search for Watch Orders to include 'zone'
- Easier methods of Removal for Documents and Watch Orders

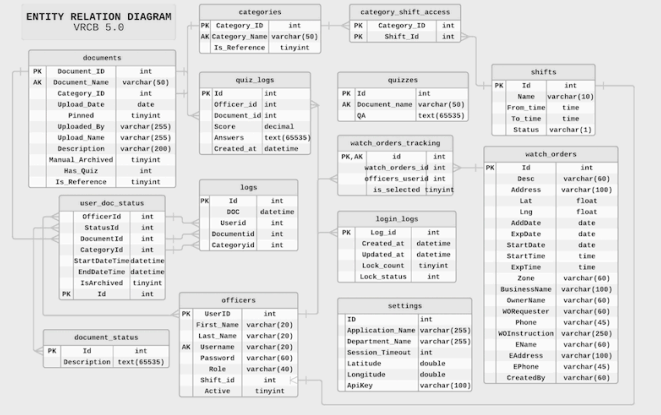
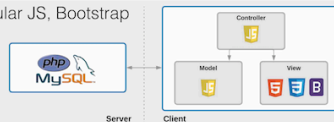
## Feature: Watch Orders

Officer navigates to the 'View Watch Orders' button. The officer 'selects' Watch Orders they have already visited to only view the orders they haven't attended to on the map. Zones 1-5 are featured on map for navigation.

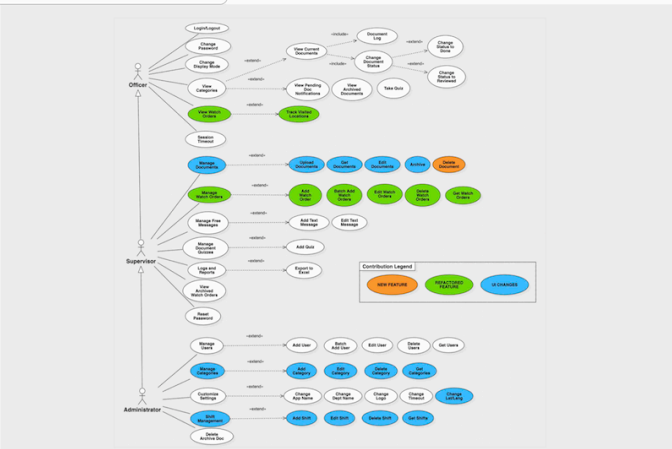


## Class & System Design

Front-End: HTML5, CSS, JavaScript, Angular JS, Bootstrap  
Back-End: PHP  
Database: MySQL  
Web Server: Apache HTTP



## Requirements



## Implementation & Verification

Use Case: Officer using 'Watch Orders' feature

Test Case: Officer keeps track of 'Watch Orders'

Purpose:

- Verify "Watch Order" feature is fully functional.

Precondition:

- Officer is logged in.
- Officer is at the "View Watch Order" screen.
- Officer can see the "Watch Orders" created.

Input:

- Officer clicks the row containing the visited location to 'select' it.
- Officer clicks the highlighted 'selected' order to unselect.
- Officer selects "Unselect All Location" button to remove selected orders.

Expected Output:

- Officer views changes to 'selected' orders on Watch Orders map and list.
- Officer can view 'selected' orders after logging out and logging back in.
- Officer can see that all locations are unselected after they have clicked the "Unselect All Locations" button.

Actual Output:

- Officer views changes to 'selected' orders on Watch Orders map and list.
- Officer can view 'selected' orders after logging out and logging back in.
- Officer can see that all locations are unselected after they have clicked the "Unselect All Locations" button.

Status: Pass

## Summary

Virtual Roll Call Briefing 5.0 includes:

- Reference Documents Repository
- Refactored Watch Orders feature
- Refactored View Logs feature
- UX/UI Optimization