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Current System

Traditionally the first 15 minutes of a police officer's shift is spent at the station in a briefing room where the shift supervisor, commonly of sergeant rank, goes over a clipboard of information with the officers. This information ranges from internal department matters to crime trends as well as any other information that needs to be passed on to the officers at the commencement of their daily tour of duty.

Problem

Due to many factors, officers are not always present for roll call briefings. Officers may be in court, assigned to an overlapping shift, or may have to start their tour early due to call volume.

Consequently, officers may miss important information discussed during roll call.

Solution

Development of an online software application , where administrators and supervisors can input relevant information into the software ,and officers can log in and review the latest postings

Virtual Roll Call will allow for officers to be briefed on all the necessary information when feasible.

Requirements

The software needs to have three modules:
1. Officer Module (View Documents)
2. Supervisor Module (1 + add documents, reset passwords)
3. Administrator Module (1 & 2 + the ability to add /modify/delete users, and edit site settings)
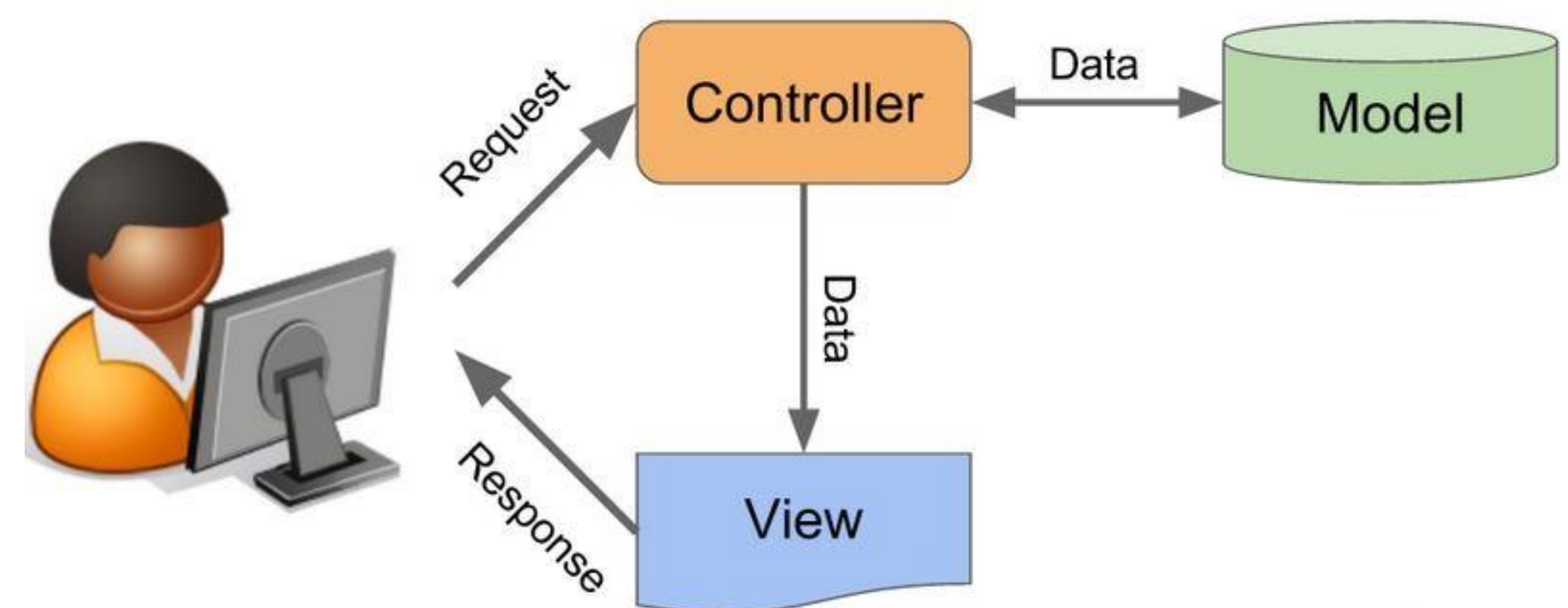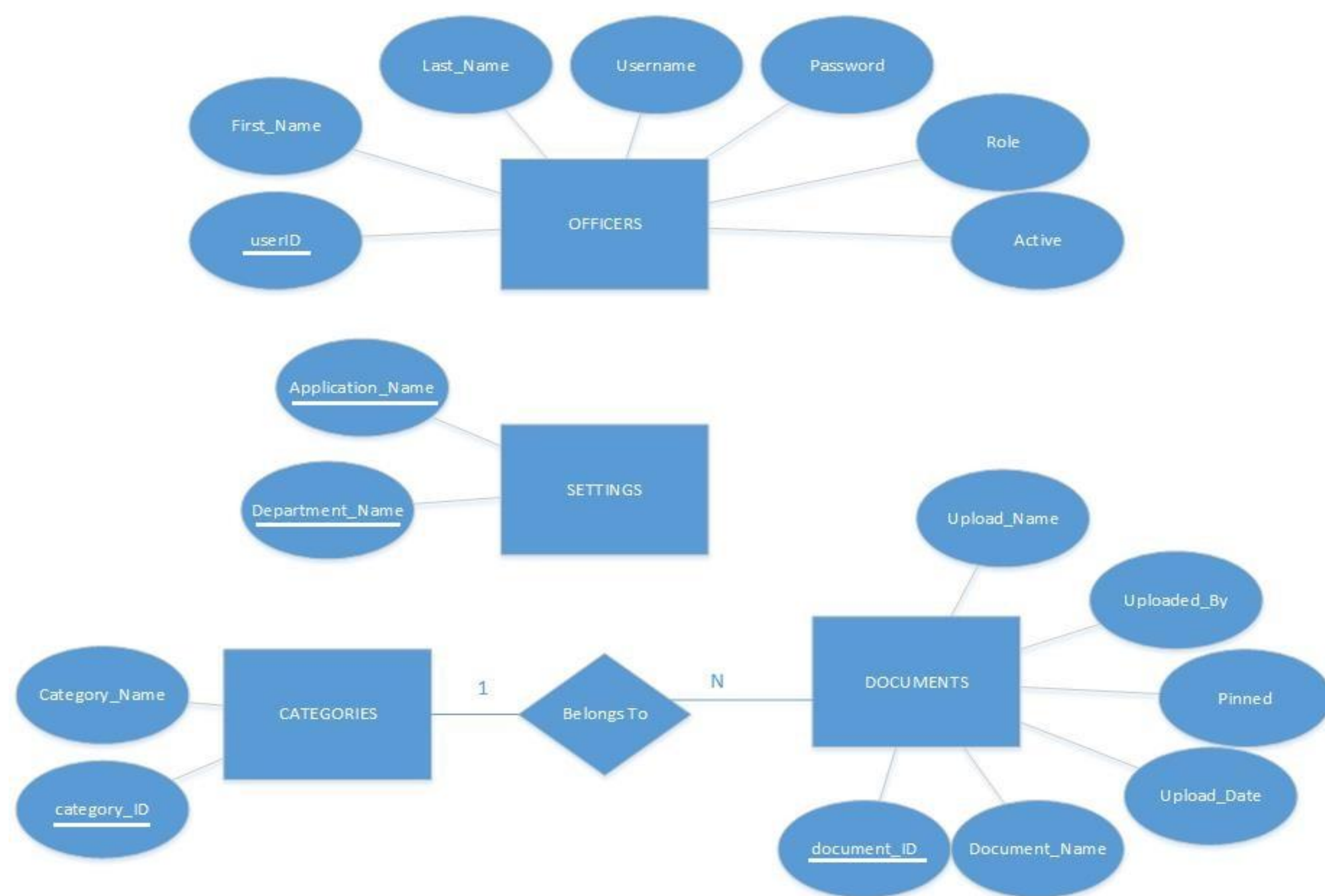
My Role

- Setup and design DB and schema
- Backend development
- Uploading files
- Feature testing
- Scrum Master

Implementation

Linux + Apache + MySQL + PHP = LAMP

ANGULARJS   HTML5   CSS3

System Design

Verification
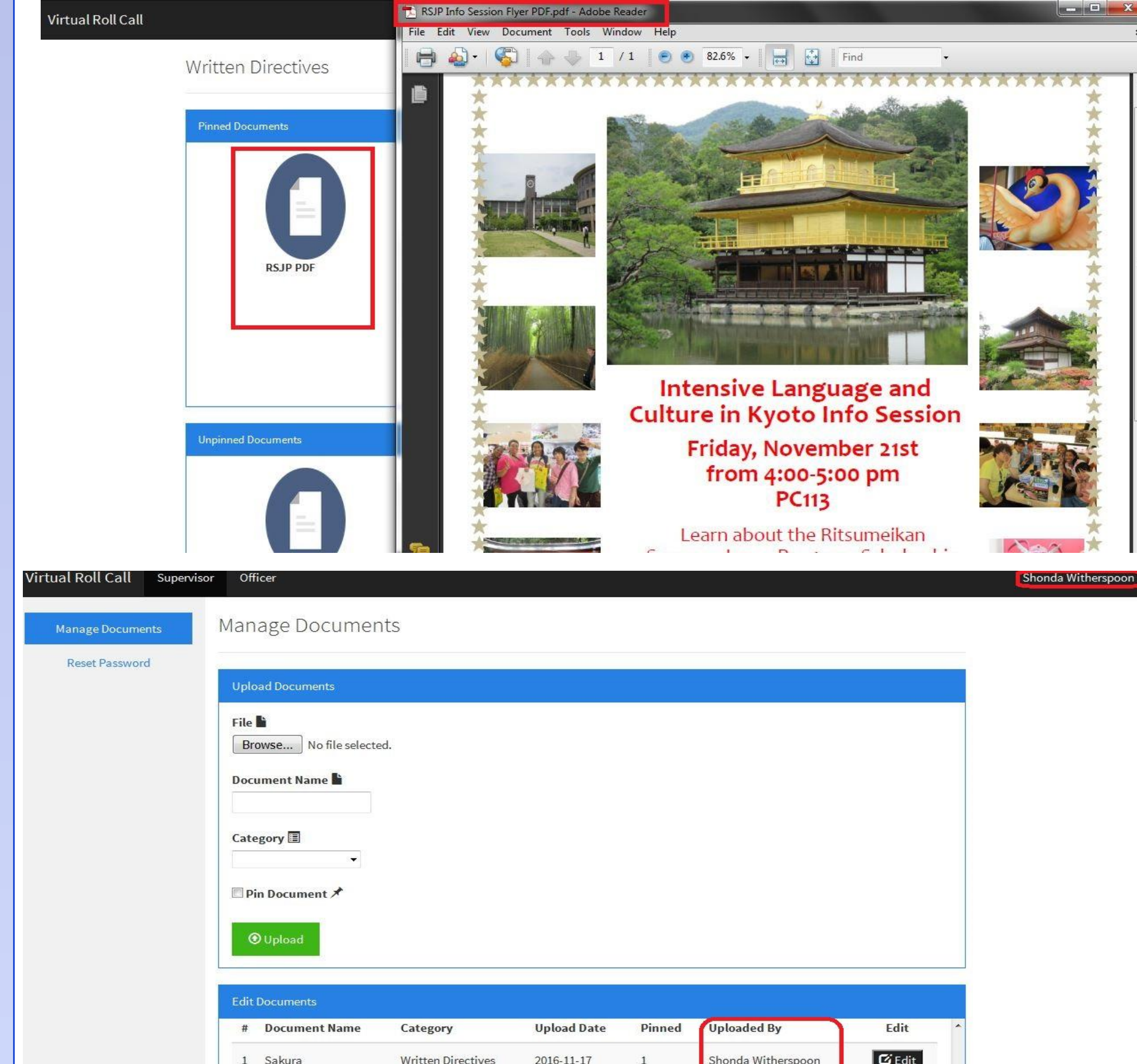
Sunny Day:

Purpose	Verify that document is uploaded to the server
Entrance Condition	1. User role is Supervisor 2. Supervisor has document to load to server
Input	Document from Supervisor's computer files, name of document, category, and whether document should be pinned,
Expected Output	Document added to uploads directory in server; input data displayed on UI

Rainy Day

Purpose	Verify that Supervisor cannot successfully add document that violates DB constraints (such as duplicate document name)
Entrance Condition	1. User role is Supervisor 2. Supervisor has document to load to server
Input	User enters a document already in the database
Expected Output	Document cannot be added

Unit and integration test were performed manually against sunny and rainy day scenarios.

Screenshots

Summary

❑The current roll call system requires officers to be physically present for their shift's briefings.
❑Officers who are unable to attend roll call miss valuable information
❑With the first version of Virtual Roll Call complete, officers are able to hold all current aspects of the roll call system online, with documents conveniently sorted by category.
❑Each user role has different interactions with the system, each with simple and clear usage and navigation.
❑Next version can extend version 1.0 features

Acknowledgement