

Fire Department Management System

Effective record management for fire departments.

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1 Project Progress and Timeline

- Database
- Database Schema
- Personnel Information
- Inventory
- Fire Drills
- Fire Calls
- Search
- Demo

2 Educational Progress

- Qt
- SQLite
- SQL Parameterization

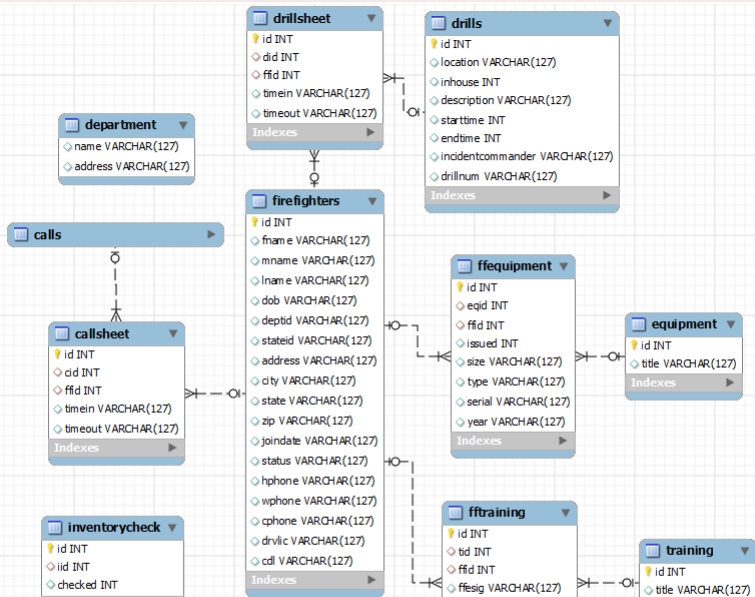
3 Closing

- Thanks
- Questions
- Project Information

Database

- Database Schema Design ✓
- Functionally Create ✓
- Verify Structure ✓

Database Schema



Personnel Information

- Create GUIs for Firefighter's Information (New, Edit) ✓
- Form functionality in code ✓
- Firefighter class ✓

Inventory

- Create GUI for Inventory (Control, Audit) ✓
- Provide Load and Save functionality ✓
- Generate inventory reports ✓

Fire Drills

- Create GUI for Fire Drills ✓
- Form functionality in code (New, Historic) ✓

Fire Calls

- Create GUI for Fire Calls ✓
- Form functionality in code

Search

- Create GUI for search ✓
- Search for firefighters, drills, calls ✓

Demo

- Live Demo

Qt is Awesome!

Qt for rapid development, easy interface design, all of the power of C++ and none of the hassle.

SQLite is also Pretty Cool!

Fully functional SQL database resides in a locally stored file.

SQL Parameterization

- Escaping user input is not efficient or safe.
- Parameterization should be your only option

Special Thanks

- Professor Mukkai S. Krishnamoorthy
- Sean O'Sullivan '85
- Peter Hajas (phajas), Nate Steadman (natesm)
irc.freenode.net#rcos

Questions?

Info, Repo, and Contact

- Website: <http://FireDepartmentSolutions.com>
- Repo: <http://firedepartmentsolutions.com/svn/fdms/>
- Repo View: <http://firedepartmentsolutions.com/websvn/>
- Contact: Joseph@JWDougherty.com