

Technical Manual for Police System

1. How to install MySQL, phpMyadmin

MySQL official installation guide: <https://dev.mysql.com/doc/mysql-installation-excerpt/8.2/en/>

phpMyAdmin official installation guide: <https://www.ionos.co.uk/digitalguide/websites/web-development/install-phpmyadmin/>

2. The structure of police system

Database named as coursework2	Store all data in police system including user accounts, passwords, incident records, people details, vehicle details, audit forms and penalties data etc.
Interface	Basic styling using CSS to format tables, headings and form elements
User authentication	Session variables (\$_SESSION) are used to store username and password. Ordinary officers can log in and perform fundamental functions. Administrator 'daniels' can have more limits of authority such as creating police officer accounts, associating fines with reports and looking up audit form.
Main functions	Login and logout , change password
	Search for people and vehicles
	Enter new vehicles and people
	File incident reports
	Create police officer account
	Associate fines with reports
	Audit trail to account for database record accesses and changes that are made

Code for different functions are placed in the order above. The main reason is that each of these functions is more in-depth than the last. Also, the privileges of administrator are placed at the bottom. When users are searching ,editing and replacing data, SQL queries are used to interact with the database to retrieve, update and insert data. If data is successfully added into the system, user can get the signal "Successfully added the data".