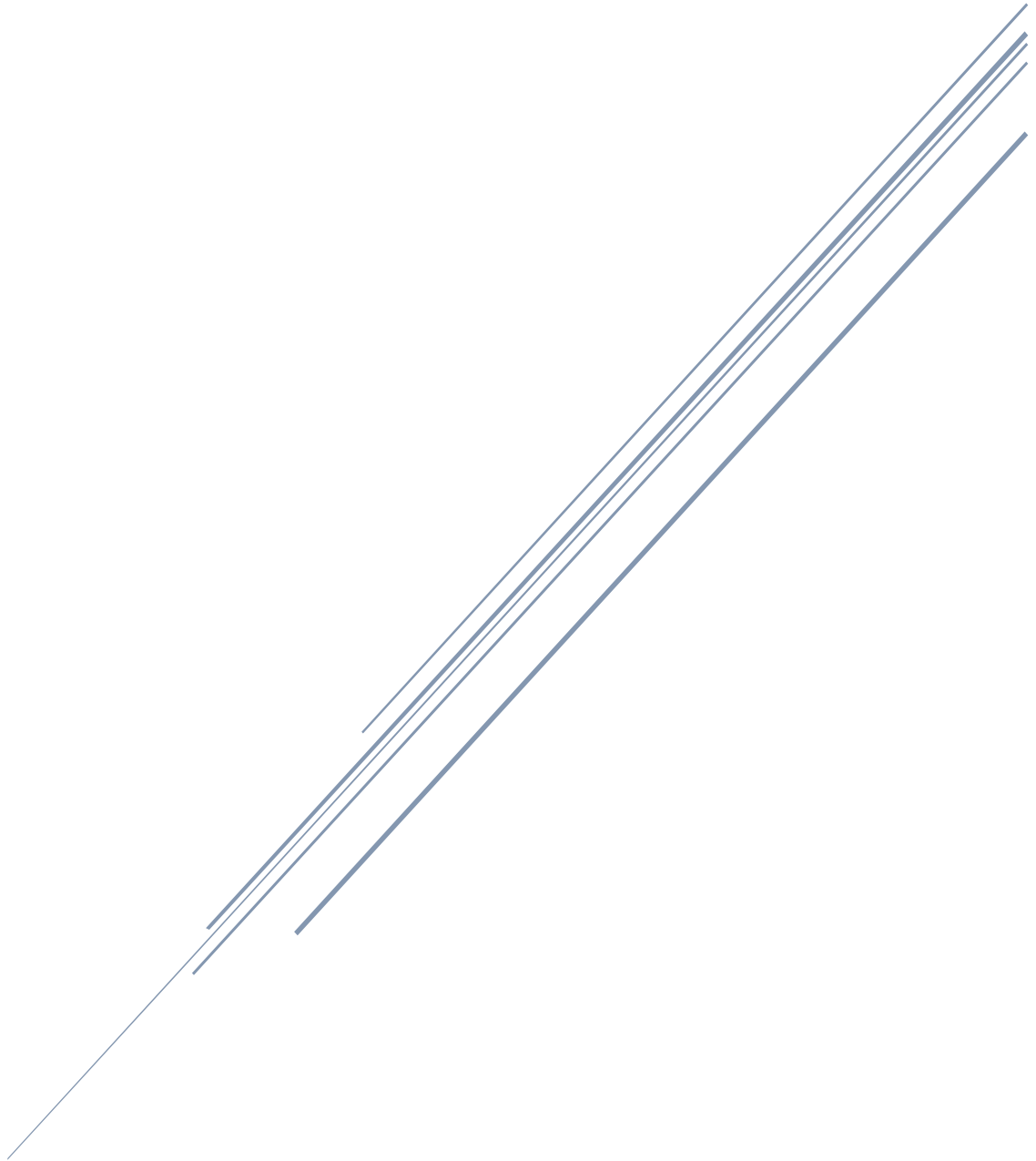


User Manual

POLICE STATION

DATABASES, INTERFACES AND SOFTWARE DESIGN PRINCIPLES
(COMP4039 UNUK)



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Introduction

UK traffic police is a website that helps officers to keep records of people and vehicles that have come to their attention, with information such as vehicles, people, offences and reports. To assist police officers in logging in to the system, changing their password, looking up people by their names or their driving license number, looking up vehicle registration (plate) numbers, entering details for a new vehicle, filing a report for an incident and retrieve existing reports, add fines by police administrator and finally audit trail to account, all required features are designed in the website.

Using the system

User Access

Users should input his/her username and password on the login page to enter the website [Figure 1].

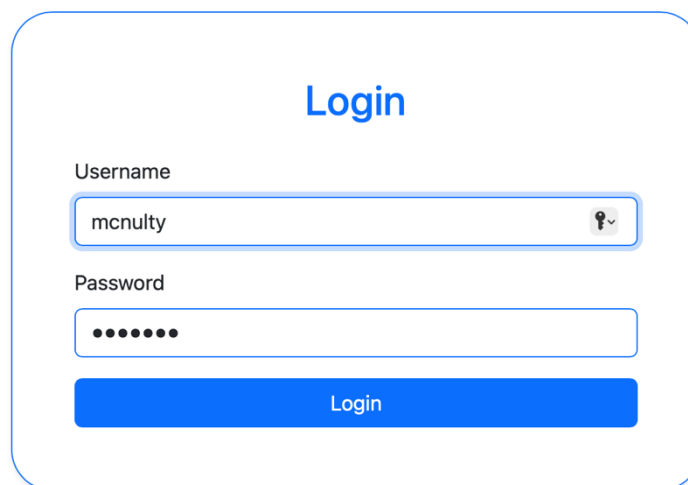
A login form titled "Login" in blue text. It contains two input fields: "Username" with the text "mcnulty" and a key icon, and "Password" with masked dots. Below the fields is a blue "Login" button.

Figure 1 - Login

To change the password, user may use the related link in top left part of home page [Figure 2].

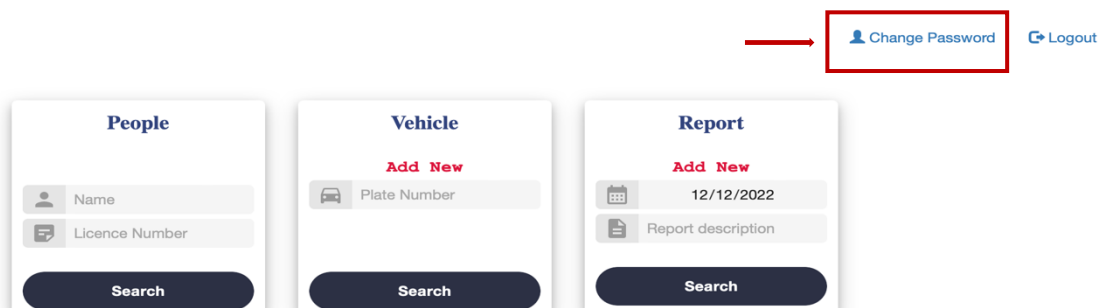
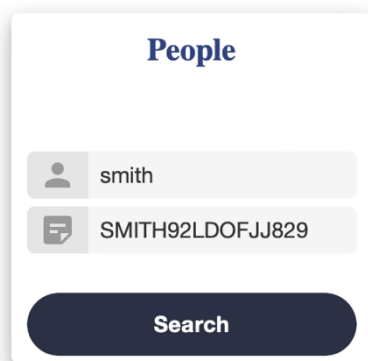
The top navigation bar of the home page. On the right, there is a "Change Password" link with a user icon and a "Logout" link with a door icon. Below the navigation bar are three search cards: "People" (with fields for Name and Licence Number), "Vehicle" (with an "Add New" link and a Plate Number field), and "Report" (with an "Add New" link and fields for date and description). Each card has a "Search" button at the bottom.

Figure 2 - Change Password

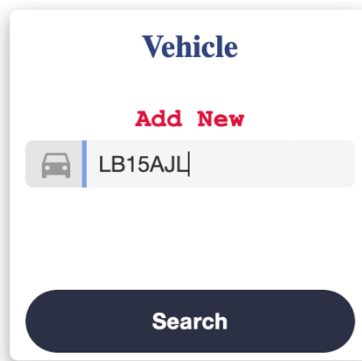
Search

To search for people, vehicles or reports, the user may use a name or license No. or a combination of them to search for people, plate No. to search for vehicles and dates or a part of the description to search for reports. To search all available people, use “-” [Figure 3, 4, 5].



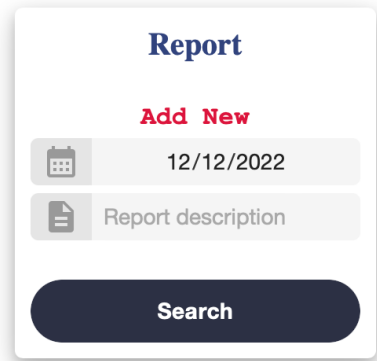
The 'People' search form has a title 'People' in blue. Below it is a red 'Add New' link. There are two input fields: the first contains 'smith' with a person icon, and the second contains 'SMITH92LDOFJJ829' with a document icon. A dark blue 'Search' button is at the bottom.

Figure 5 - People Search



The 'Vehicle' search form has a title 'Vehicle' in blue. Below it is a red 'Add New' link. There is one input field containing 'LB15AJL' with a car icon. A dark blue 'Search' button is at the bottom.

Figure 5 - Vehicle Search



The 'Report' search form has a title 'Report' in blue. Below it is a red 'Add New' link. There are two input fields: the first contains '12/12/2022' with a calendar icon, and the second contains 'Report description' with a document icon. A dark blue 'Search' button is at the bottom.

Figure 5 - Report Search

Edit

Each search record can be edited using the edit button beside it [Figure 6].

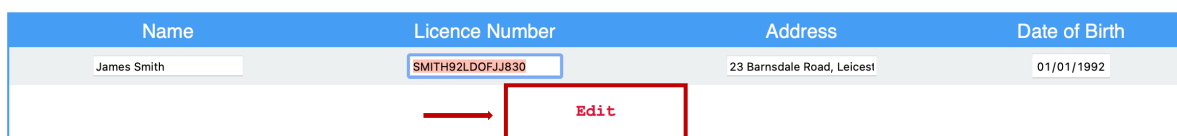
PEOPLE DATABASE

Name	Licence Number	Address	Date of Birth	Edit
James Smith	SMITH92LDOFJJ829	23 Barnsdale Road, Leicester	1992-01-01	Edit
James Smith	SMITHR004JFS20TR	26 Devonshire Avenue, Nottingham		Edit
Angela Smith	SMITH222LE9FJ5DS	30 Avenue Road, Grantham	1967-05-16	Edit

Figure 6 - Search and Edit

After editing the record in the edit box, the user may press the EDIT button to save the record [Figure 7].

EDIT RECORD



The 'Edit Record' form shows a table with columns: Name, Licence Number, Address, and Date of Birth. The first row contains 'James Smith', 'SMITH92LDOFJJ830', '23 Barnsdale Road, Leicest', and '01/01/1992'. Below the table is a red 'Edit' button. A red arrow points from the 'Edit' button to the 'Edit' button in Figure 6.

Figure 7 - Edit Page

New Record

To add a new record for a Vehicle or Report, Add New button can be used [Figure 8].

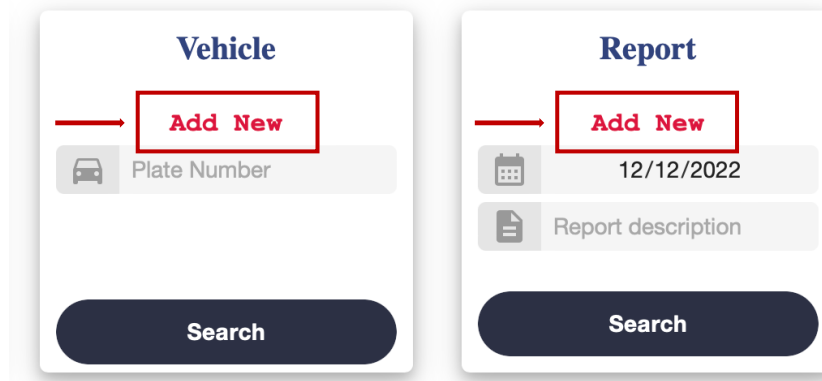


Figure 8 displays two side-by-side cards for adding new records. The left card is titled 'Vehicle' and features a red 'Add New' button with a car icon and a 'Plate Number' input field. The right card is titled 'Report' and features a red 'Add New' button with a calendar icon and a 'Report description' input field. Both cards have a 'Search' button at the bottom.

Figure 8 - New Record Button

Details of the New Report or Vehicle can be inserted on the related page [Figure 10]. When adding a vehicle with a new owner, the system will ask to add the owner's details [Figure 9].

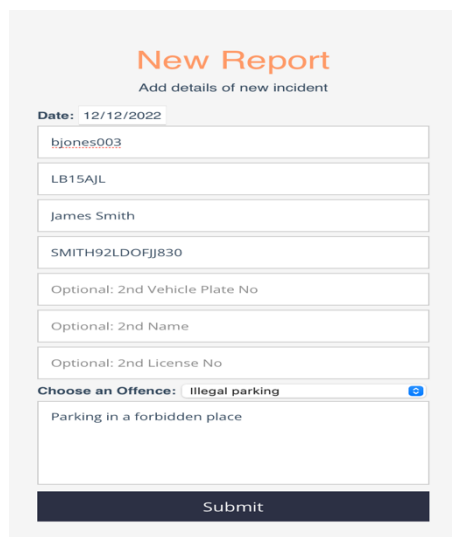


Figure 10 shows the 'New Report' form. It includes a title 'New Report' and a subtitle 'Add details of new incident'. The form contains several input fields: 'Date' (12/12/2022), 'bJones003', 'LB15AJL', 'James Smith', 'SMITH92LDOFJJ830', 'Optional: 2nd Vehicle Plate No', 'Optional: 2nd Name', and 'Optional: 2nd License No'. There is a dropdown menu for 'Choose an Offence' with 'Illegal parking' selected. Below this is a text area for 'Parking in a forbidden place'. A 'Submit' button is at the bottom.

Figure 10 - New Report

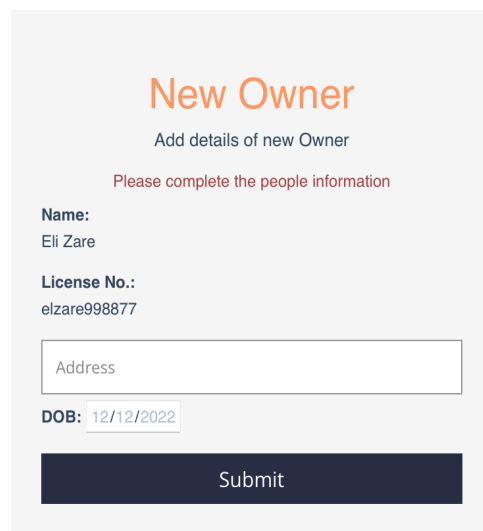


Figure 9 shows the 'New Owner' form. It includes a title 'New Owner' and a subtitle 'Add details of new Owner'. The form contains several input fields: 'Name' (Eli Zare), 'License No.' (elzare998877), 'Address', and 'DOB' (12/12/2022). A 'Submit' button is at the bottom.

Figure 9 - New Owner

Super-admin

Super admins have extra access to various parts. They can search for records or add new records to the officer and offence database too. They also have access to the Audit trail page [Figure 11].

The screenshot displays the Super-admin interface. At the top right, there is a navigation bar with three links: **Audit** (highlighted with a red box and an arrow), **Change Password**, and **Logout**. Below this, there are five search forms arranged in two rows. The top row contains **People**, **Vehicle**, and **Report** forms. The bottom row contains **Officer** and **Offence** forms, which are highlighted with a red box and an arrow. Each form includes an **Add New** link, a search input field with a placeholder text and an icon, and a **Search** button.

Section	Field 1 (Icon)	Field 2 (Icon)	Field 3 (Icon)
People	Name	Licence Number	
Vehicle	Plate Number		
Report	12/12/2022	Report description	
Officer	Officer Name		
Offence	Offence		

Figure 11 - Super-admin extra access

Audit Trail:

The super-admin can see all database changes on the Audit page. A log can be searched by a database or user or a specific period [Figure 12, Figure 13].

The figure shows a search interface with three main sections: Database, User, and Date. The Database section has a dropdown menu with options: People (selected), Vehicle, Incident, Admin, Fines, Offence, and Officer. The User section has a text input field labeled 'username' and a 'Search' button. The Date section has a 'Start Date - End Date' label, a date range '12/12/2022 12/12/2022', and a 'Search' button.

Figure 12 - Log Search

AUDIT

DB	Main DB ID	Column Name	Old Value	New Value	Done By	Date
Admin	1	admin_last_login	2022-12-12 21:25:04	2022-12-12 22:10:29	mcnulty	2022-12-12 22:10:29
People	12	People_ID		12	mcnulty	2022-12-12 22:10:19
People	12	People_name		Eli Zare	mcnulty	2022-12-12 22:10:19
People	12	People_address		NG1	mcnulty	2022-12-12 22:10:19
People	12	People_licence		elzare998877	mcnulty	2022-12-12 22:10:19
People	12	People_DOB		1985-12-12	mcnulty	2022-12-12 22:10:19
People	1	People_licence	SMITH92LDOFJJ829	SMITH92LDOFJJ830	mcnulty	2022-12-12 21:55:15
Vehicle	15	Vehicle_ID		15	mcnulty	2022-12-12 22:07:22
Vehicle	15	Vehicle_type		Peugeot 206	mcnulty	2022-12-12 22:07:22
Vehicle	15	Vehicle_colour		Black	mcnulty	2022-12-12 22:07:22
Vehicle	15	Vehicle_licence		HHH3546	mcnulty	2022-12-12 22:07:22
Vehicle	14	Vehicle_ID		14	mcnulty	2022-12-12 22:05:31
Vehicle	14	Vehicle_type			mcnulty	2022-12-12 22:05:31
Vehicle	14	Vehicle_colour			mcnulty	2022-12-12 22:05:31
Vehicle	14	Vehicle_licence		HHH6665	mcnulty	2022-12-12 22:05:31
Incident	8	Incident_ID		8	mcnulty	2022-12-12 22:05:31
Incident	8	Officer_ID		1	mcnulty	2022-12-12 22:05:31
Incident	8	Incident_Date		2022-12-13	mcnulty	2022-12-12 22:05:31

Figure 13 - Search result by user