

1. Introduction

The objective of this document is to detail the testing approach for the internet forensics application, including the test cases and the associated test evidence.

2. Testing Approach – Group 2

The testing involves manual and automated testing

The automated tests, which are written using Django's test utility also need to be tested, hence the requirement for manual testing, to verify the automated tests work correctly

3. Automated Testing

The following commands need to be entered :

- pip install pytest
- python tests.py

Enclosed is the evidence from running the tests.py file:

```
Requirement already satisfied: packaging in c:\users\janea\appdata\local\programs\python\python311\lib\site-packages (from pytest) (22.0)
Requirement already satisfied: pluggy<2.0,>=0.12 in c:\users\janea\appdata\local\programs\python\python311\lib\site-packages (from pytest) (1.0.0)
Requirement already satisfied: colorama in c:\users\janea\appdata\local\programs\python\python311\lib\site-packages (from pytest) (0.4.6)
PS C:\Users\janea\OneDrive\Documents\GitHub\DjangoForensics>
PS C:\Users\janea\OneDrive\Documents\GitHub\DjangoForensics> python test.py
C:\Users\janea\AppData\Local\Programs\Python\Python311\python.exe: can't open file 'C:\\\\Users\\\\janea\\\\OneDrive\\\\Documents\\\\GitHub\\\\DjangoForensics\\\\test.py': [Errno 2] No such file or directory
PS C:\Users\janea\OneDrive\Documents\GitHub\DjangoForensics> cd Group2
PS C:\Users\janea\OneDrive\Documents\GitHub\DjangoForensics\Group2> cd internetForensics
PS C:\Users\janea\OneDrive\Documents\GitHub\DjangoForensics\Group2\internetForensics> python test.py
```

C:\Users\janea\AppData\Local\Programs\Python\Python311\python.exe: can't open file 'C:\\\\Users\\\\janea\\\\OneDrive\\\\Documents\\\\GitHub\\\\DjangoForensics\\\\Group2\\\\internetForensics\\\\test.py': [Errno 2] No such file or directory

PS C:\Users\janea\OneDrive\Documents\GitHub\DjangoForensics\Group2\internetForensics> python tests.py

PS C:\Users\janea\OneDrive\Documents\GitHub\DjangoForensics\Group2\internetForensics>

The screenshot shows a Visual Studio Code interface with the following details:

- File Explorer:** Shows the project structure under "DjangoForensics". The "tests.py" file is currently selected.
- Editor:** Displays the content of "tests.py". The code is a Django test script containing several test cases for user login functionality.
- Terminal:** Shows a command-line session with the following output:


```
Requirement already satisfied: packaging in c:\users\janeal\appdata\local\programs\python\python311\lib\site-packages (from pytest) (22.0)
Requirement already satisfied: pluggy<2.0,>=0.12 in c:\users\janeal\appdata\local\programs\python\python311\lib\site-packages (from pytest) (1.0.0)
Requirement already satisfied: colorama in c:\users\janeal\appdata\local\programs\python\python311\lib\site-packages (from pytest) (0.4.0)
PS C:\Users\janeal\OneDrive\Documents\GitHub\DjangoForensics>
PS C:\Users\janeal\OneDrive\Documents\GitHub\DjangoForensics> python tests.py
C:\Users\janeal\AppData\Local\Programs\Python\Python311\python.exe: can't open file 'C:\Users\janeal\OneDrive\Documents\GitHub\DjangoForensics\tests.py': [Errno 2] No such file or directory
PS C:\Users\janeal\OneDrive\Documents\GitHub\DjangoForensics> cd Group2
PS C:\Users\janeal\OneDrive\Documents\GitHub\Group2\internetForensics> python tests.py
C:\Users\janeal\AppData\Local\Programs\Python\Python311\python.exe: can't open file 'C:\Users\janeal\OneDrive\Documents\GitHub\Group2\internetForensics\tests.py': [Errno 2] No such file or directory
PS C:\Users\janeal\OneDrive\Documents\GitHub\Group2\internetForensics> python tests.py
PS C:\Users\janeal\OneDrive\Documents\GitHub\Group2\internetForensics>
```
- Status Bar:** Shows the current file is "tests.py - DjangoForensics - Visual Studio Code", and the terminal output includes "Ln 37, Col 33 Spaces: 4 UTRF-B CRLF Python 3.11.64-bit Go Live".

4. Design Requirements

The below test cases cover functional and security testing, and also test against the design requirements, as documented in the design proposal document: 'Sprint One will be a 4 week sprint, and will focus on the current top OWASP threats (See Appendix in Design Document). The sprint will include a mitigation from each of the first one to seven OWASP categories'

Scope as defined in the design proposal:

Threat Mitigation Category	Proposed Threat Mitigation Changes	OWASP	STRIDE
Authorization	<ul style="list-style-type: none"> User permissions and roles An administrator UI where a locked user can be unlocked, and where new users can be added and leavers de-activated 	Yes	Yes
Multi-factor Authentication	<ul style="list-style-type: none"> Password standards OTP Three attempts to logon 	Yes	Yes
Input Validation	<ul style="list-style-type: none"> Logon UI which includes input validation Server-side input validation 	Yes	Yes
Encryption	<ul style="list-style-type: none"> Encryption of data in transit and at rest 	Yes	Yes
Security Misconfiguration	<ul style="list-style-type: none"> Implementation of the MVC architecture pattern 	Yes	No

5. Sprint One – Scope Changes

5.1 New Functionality added to Sprint One Scope

Sprint one scope was changed to include the following:

- For sprint one, in order to be able to test permissions and user roles adequately, we also developed a dashboard, where access to different functions is dependent on the user role and associated permissions.
- A CSRF token was implemented, which mitigates the risk of cross site request forgery :

'In any template that uses a POST form, use the **csrf_token** tag inside the <form> element if the form is for an internal URL'
(<https://docs.djangoproject.com/en/4.1/howto/csrf/>) Django website

- If a user is already authenticated and tries to navigate to the login page this is prevented.
- A logout function was added, to provide the user with the ability to logout of the application.
- If a user is logged out then the user cannot navigate to the admin or main dashboard page.

5.2 Functionality which will now be included in Sprint Two

The following functionality was taken out of scope for Sprint One, and will be included in Sprint 2. The changes detailed in section 3.1 were determined to be of a higher priority or required for sufficient testing of user roles and permissions:

- OTP functionality – will be included in sprint 2
- Three attempts to login – will be included in sprint 2

5.3 Out of Scope

The objective of the testing is not to test the Django framework, but the code which the team has written :

- The Django admin page and functionality is part of the Django web framework and is out of scope for testing
- Libraries are excluded for testing
- The password encryption is excluded because this is provided by Django

6.0 Testing Phases

The testing approach was to plan for three cycles of testing

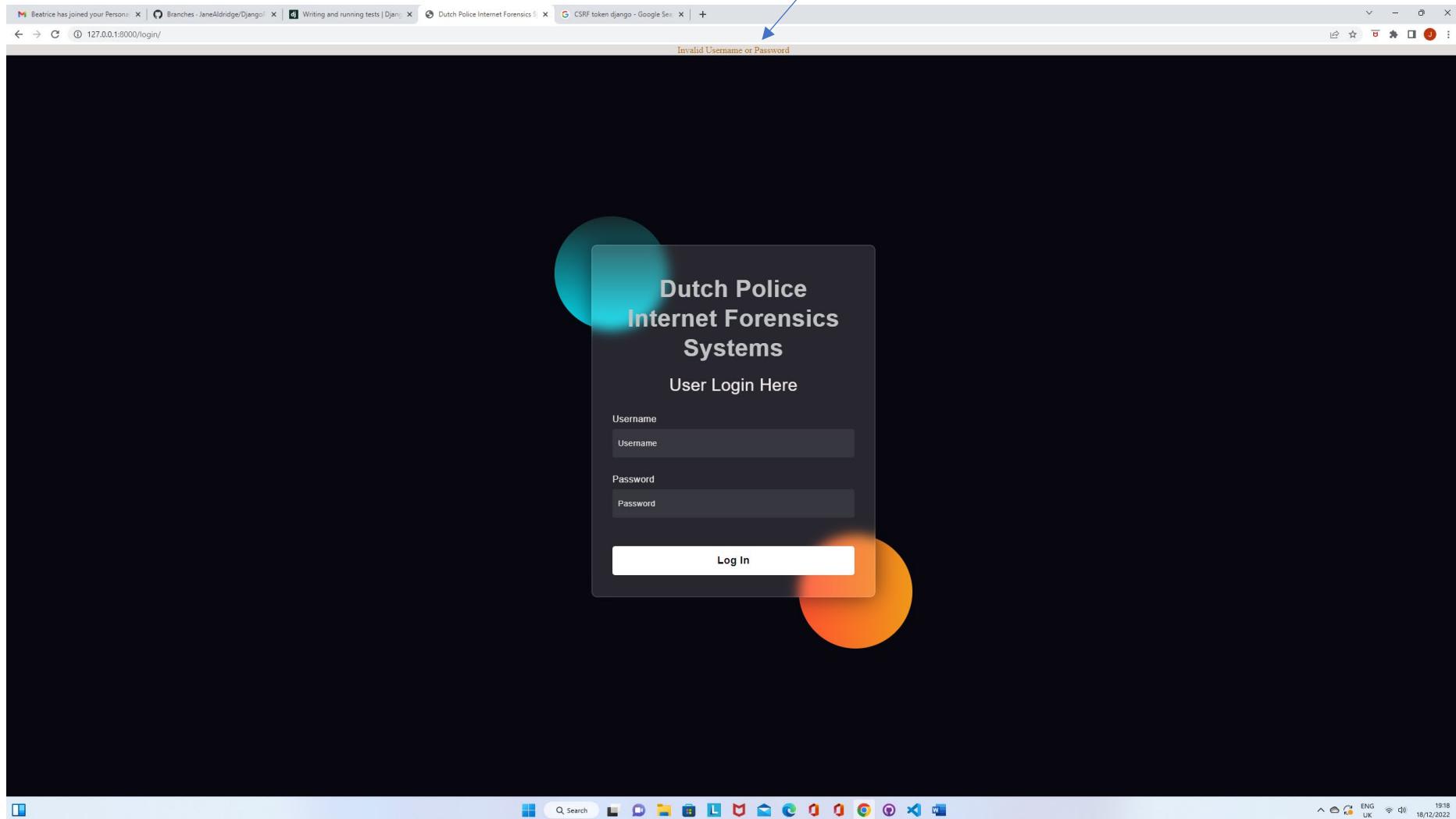
All the tests planned for cycle 1 sprint one passed

7.0 Test Cases and Test Results

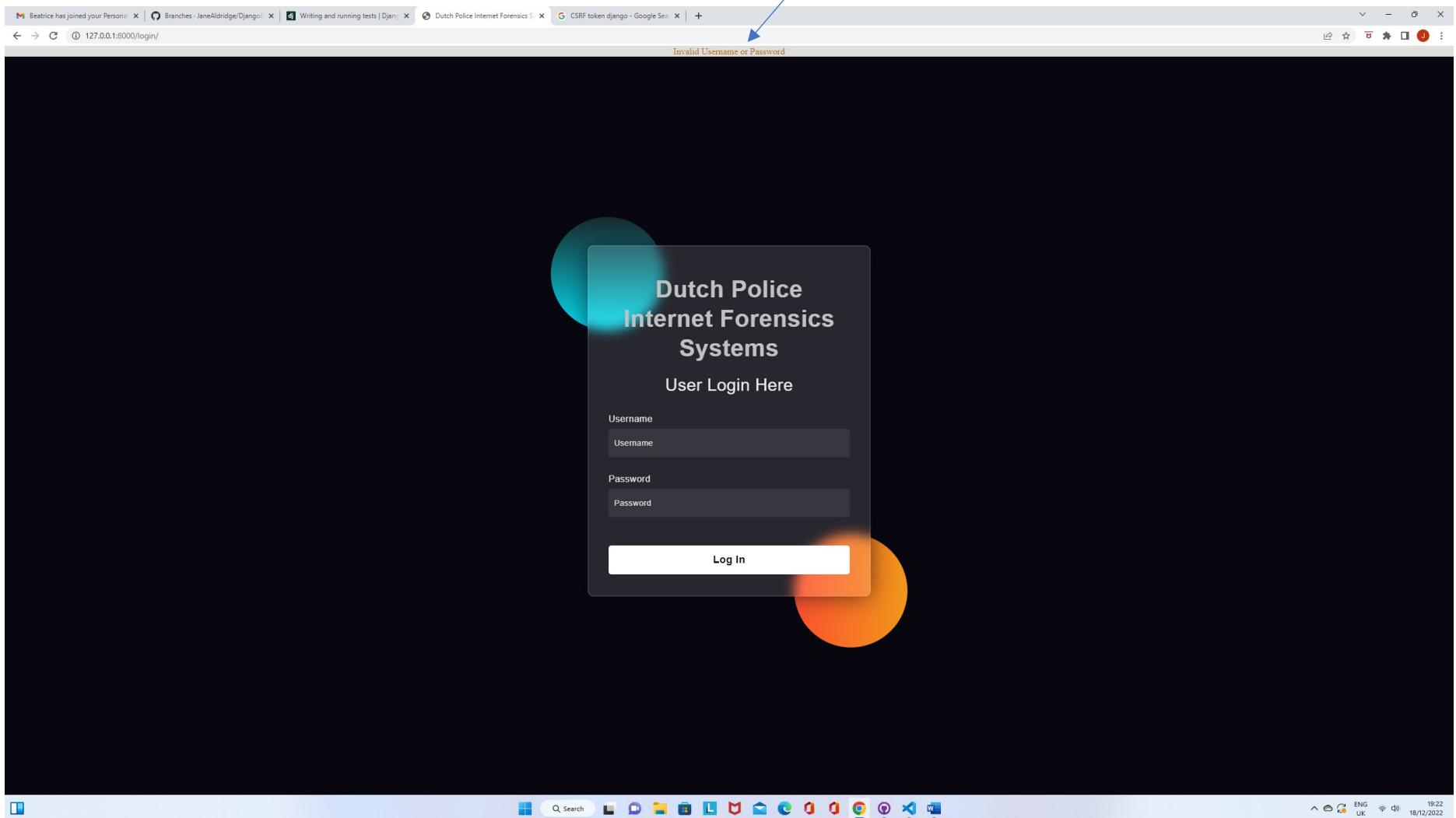
Test Group	Security or Functional Test Type	Design Requirement which was in scope for the first sprint – Threat Mitigation Category	Function being tested	Test Id	Test Description	Data entered (where applicable)	Expected Result - Valid/Invalid Data Entry	Pass/Fail	Testing cycle when test passed
1	Security – Confidentiality	Multi-factor authentication Input validation	Login Functionality – User Id	1.1	Enter spaces for the user id	<spaces>	Invalid	Pass	1
				1.2	Enter a return character for the user id	<return>	Invalid	Pass	1
				1.3	Enter an invalid character	!	Invalid	Pass	1
				1.4	Enter a valid test user id	Officer	Valid	Pass	1
		SQL Injection		1.5	Enter a SQL command	SELECT * FROM auth_user	Invalid	Pass	1
2	Security – Confidentiality and Integrity	Multi-factor authentication Input validation	Login Functionality – Password validation	2.1	Enter a password which does not exist in the database	AAAAAAA	Invalid	Pass	1
				2.2	Enter a password which is a valid password	essex123	Valid	Pass	1
			SQL Injection	2.3	Enter a SQL command for the password	SELECT * FROM auth_user	Invalid	Pass	1
3	Security – Confidentiality	Multi-factor authentication	Login Page Navigation – prevent user from going back to the login page	3.1	Login to the main page as admin and enter in the URL for the login page	Login in as Jane, essex123 Update URL	Invalid	Pass	1
4	Security – Confidentiality	Authorization	Permissions	4.1	Login as the administrator Can the dashboard options be accessed	Navigate to the dashboard as jane, essex123	Valid	Pass	1
				4.2	Login as the Officer Can the dashboard options be accessed, only the change password page should be available not the administrator page	Navigate to the dashboard, as Officer essex123	Invalid	Pass	1
		Functionality	Logout	4.3	Login as the Officer and logout from the dashboard	Submit the logout option	Valid	Pass	1
5	Functionality	User profile	Extended user profile as part of the admin page	5.1	Update the DOB, gender, department name, location (these attributes use drop downs)	01-02-1996 Male Name4 Location4	Valid	Pass	1
6	Functionality	Create a new user	New user	6.1	Create a new user and then logon with that user profile	LAldridge98 Suffolk123! Changed to Norfolk123!	Valid	Pass	1

Test 1.1 – Enter spaces for the user id – TEST PASSED

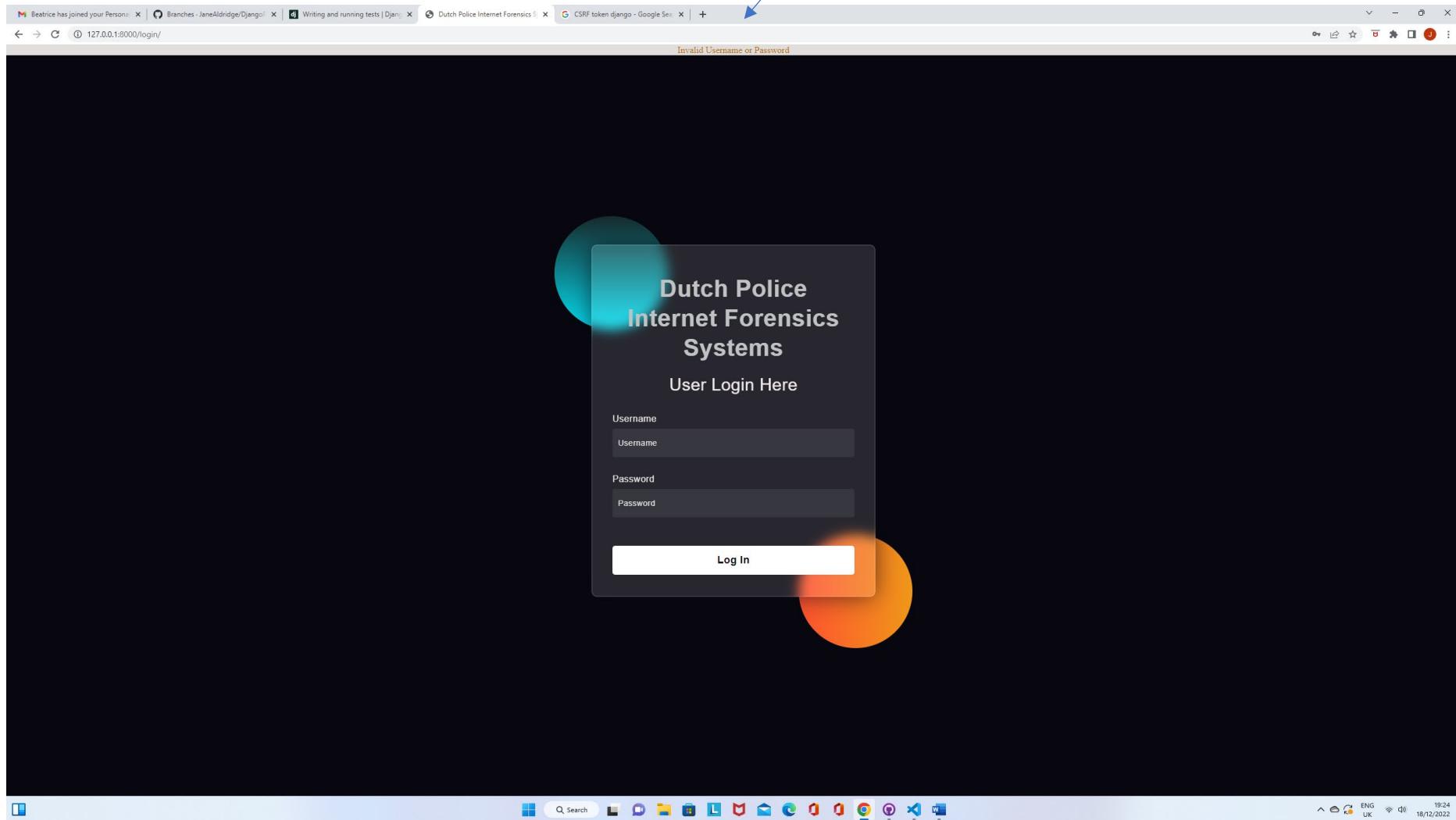
All tests have the system time included in the bottom left of the UI



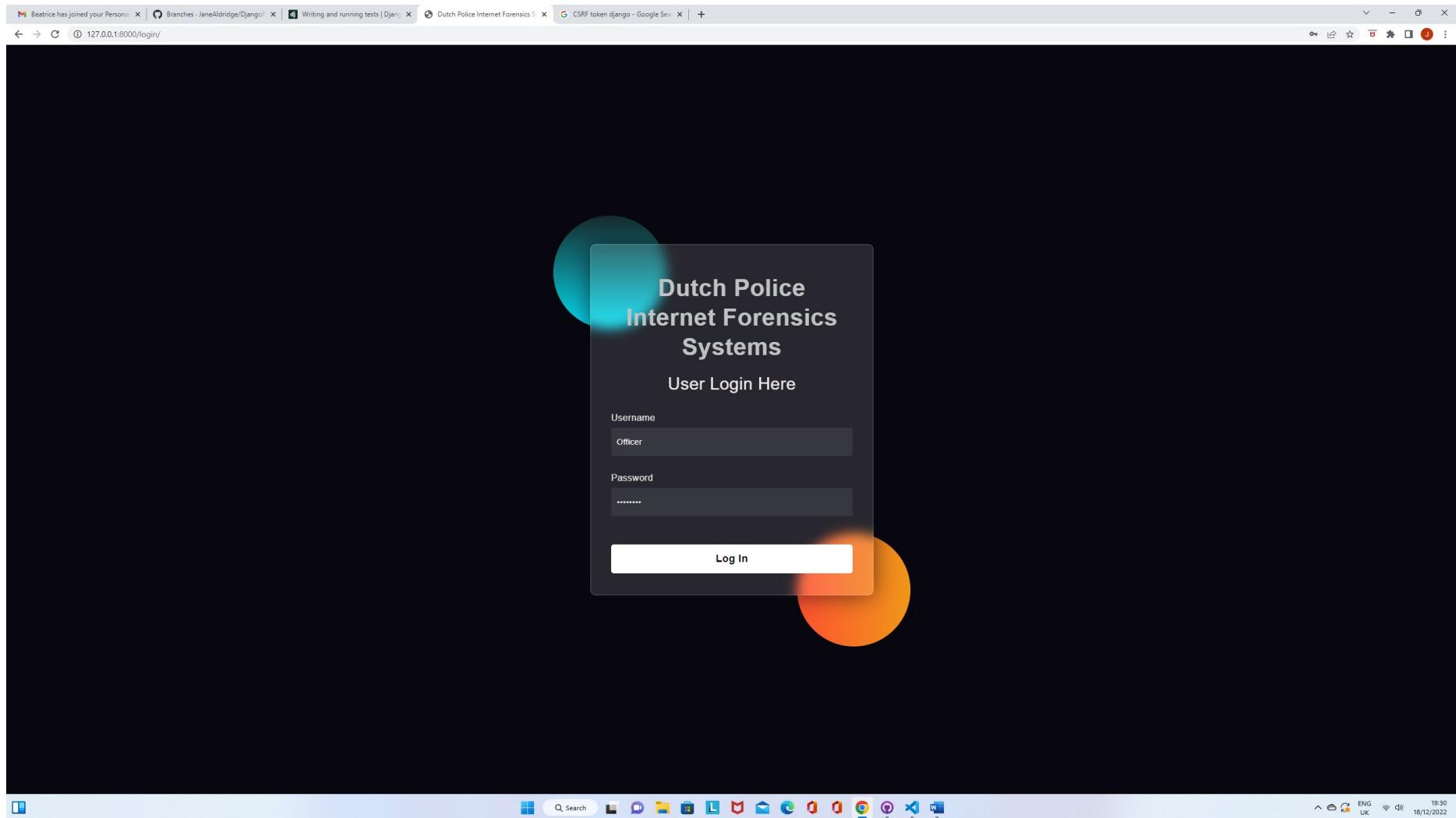
Test 1.2 – Enter a return character for the user id – TEST PASSED

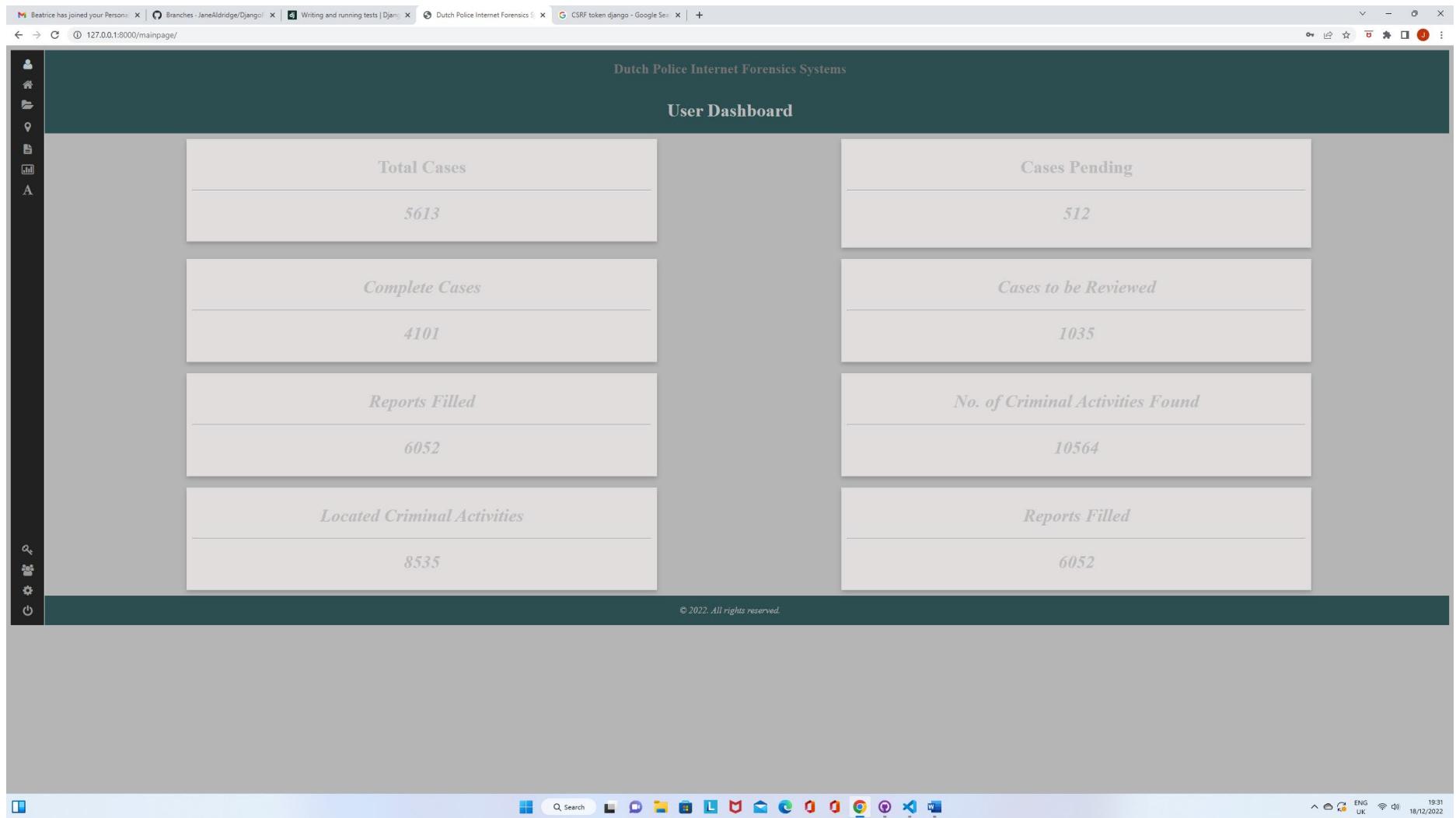


Test 1.3 – Enter an invalid ‘!’ character for the password – TEST PASSED

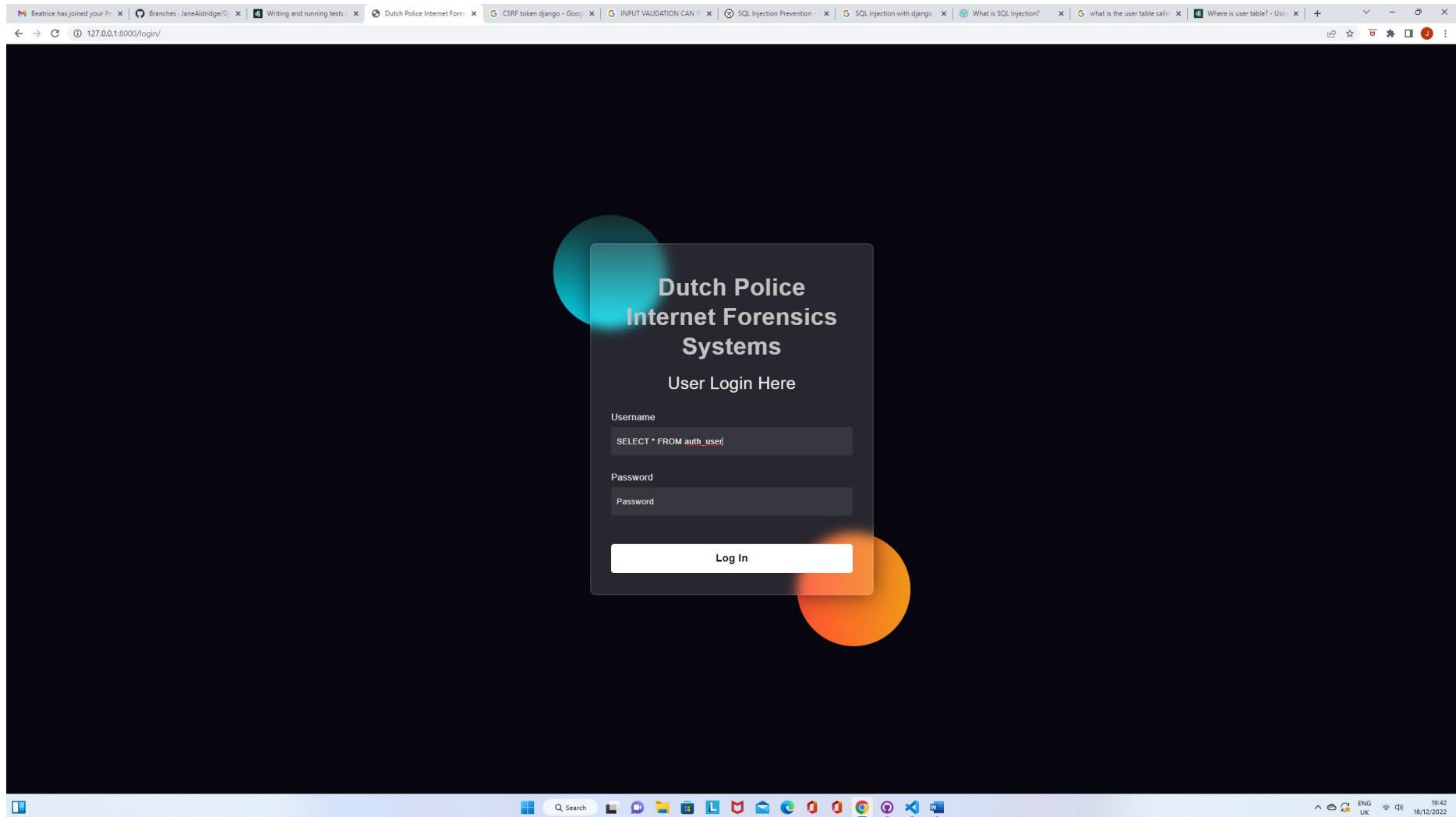


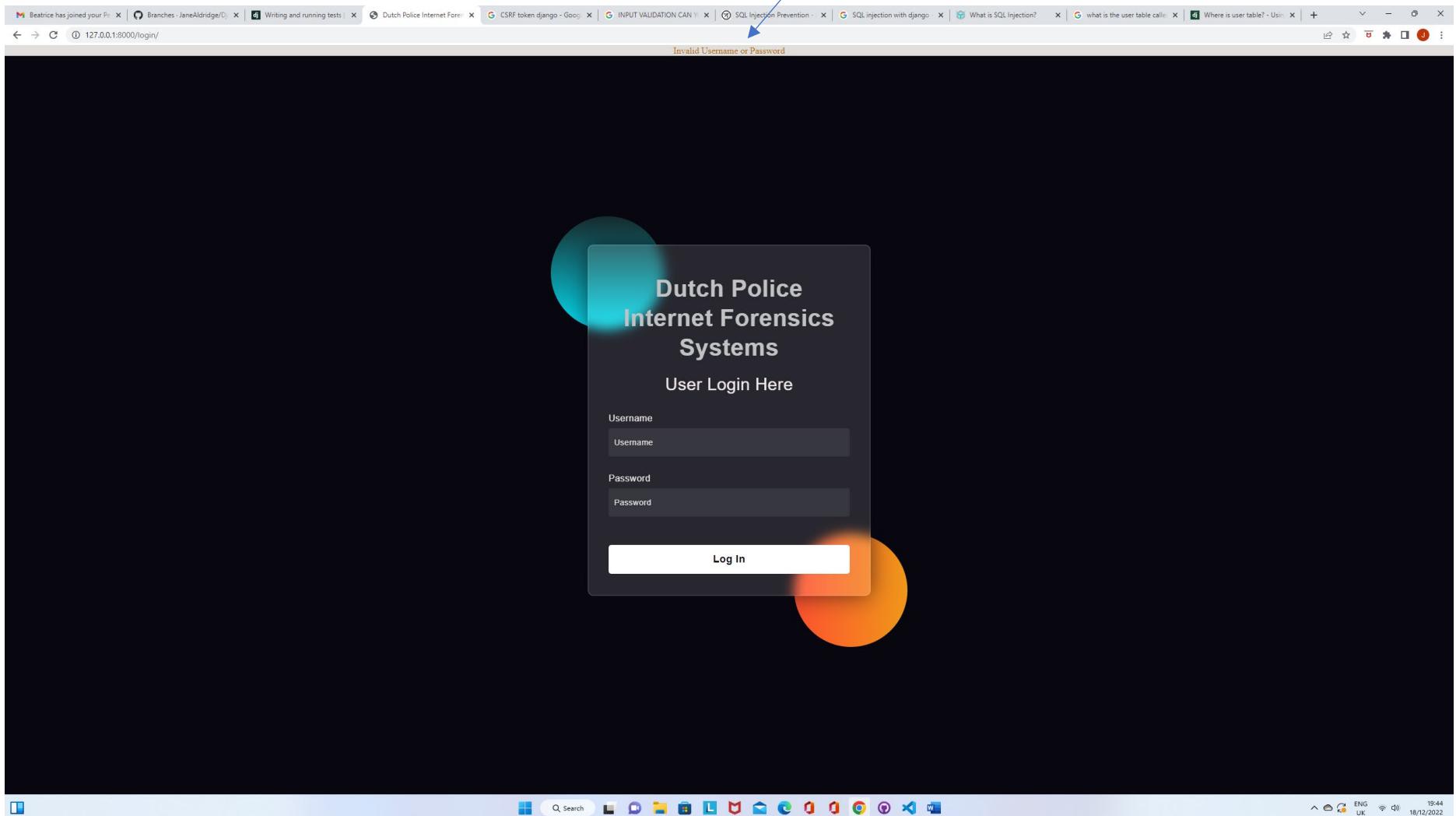
Test 1.4 – Enter a valid test user id and password – TEST PASSED



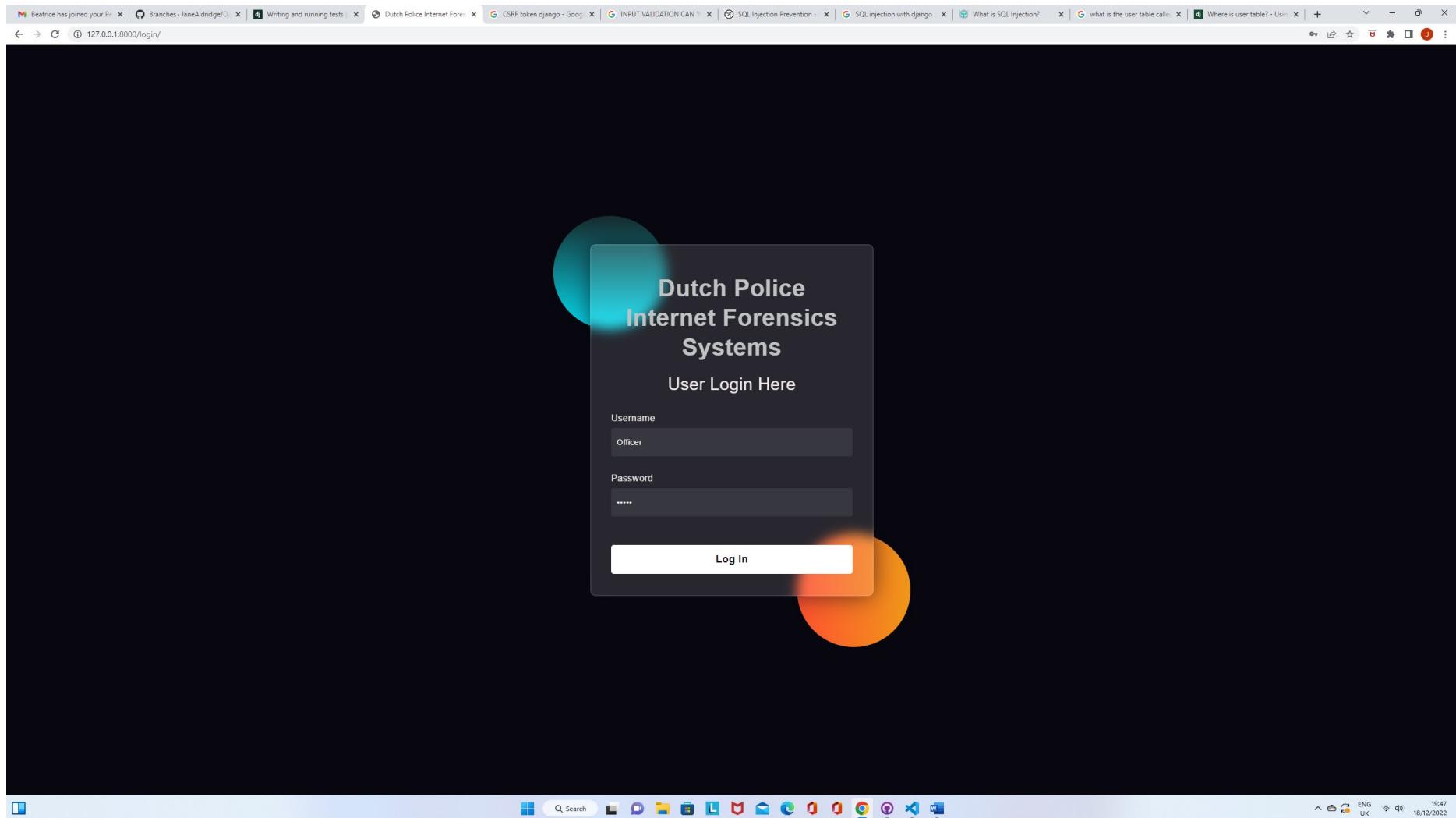


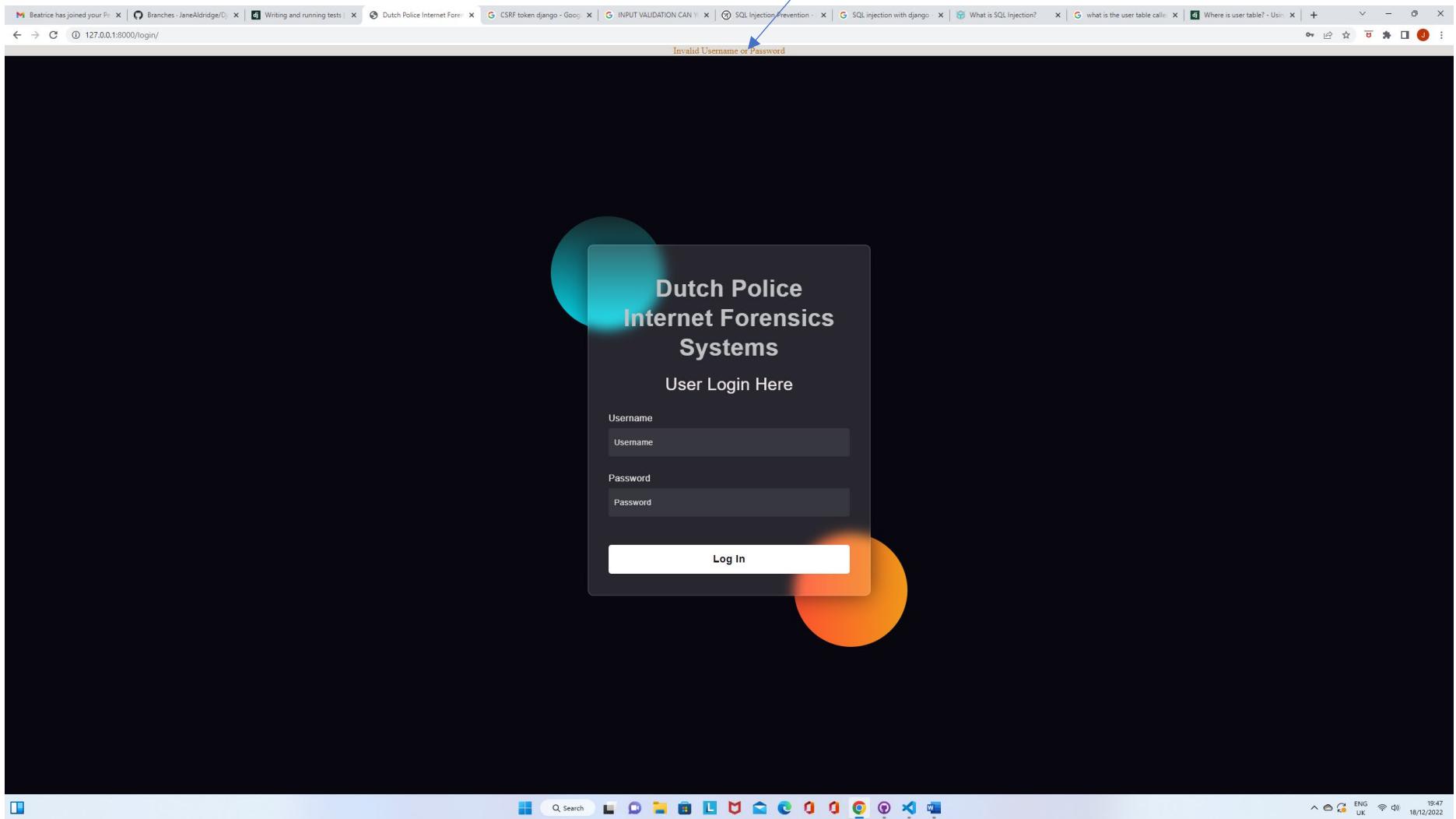
Test 1.5 – Enter a SQL Command – TEST PASSED





TEST 2.1 - Enter a password which does not exist in the database – TEST PASSED





Test 2.3 – Enter a password which is a valid password – TEST PASSED

The screenshot shows a web browser window with multiple tabs open, including Google search results for various security topics. The main content is the 'User Dashboard' of the 'Dutch Police Internet Forensics Systems'. A blue arrow points to the 'Login Successful' message at the top right of the dashboard.

User Dashboard

Total Cases
5613

Cases Pending
512

Complete Cases
4101

Cases to be Reviewed
1035

Reports Filled
6052

No. of Criminal Activities Found
10564

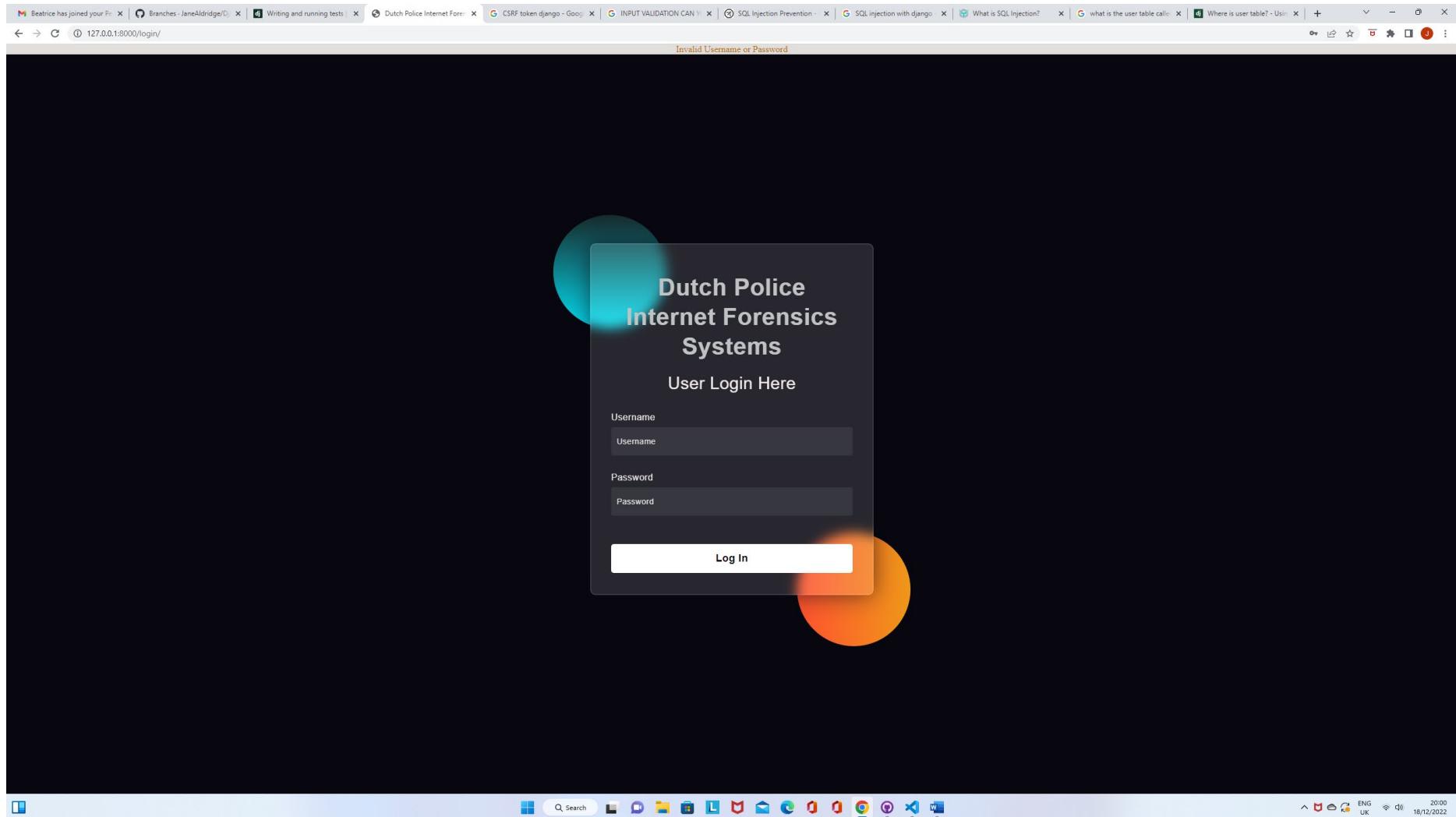
Located Criminal Activities
8535

Reports Filled
6052

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Windows taskbar icons are visible at the bottom, along with system status indicators like battery level and network connection.

Test 2.4 – Enter a SQL Command for the password – Test PASSED



Test 3.1 - Login to the main page as admin and enter in the URL for the login page – TEST PASSED

The URL remains on the mainpage and does not navigate back to the login page

Dutch Police Internet Forensics Systems - 127.0.0.1:8000/login

127.0.0.1:8000/login - Secure Search Search

Dutch Police Internet Forensics Systems - 127.0.0.1:8000/login/

Dutch Police Internet Forensics Systems - 127.0.0.1:8000/login/?next=/mainpage/

Total Cases
5613

Complete Cases
4101

Reports Filled
6052

Located Criminal Activities
8535

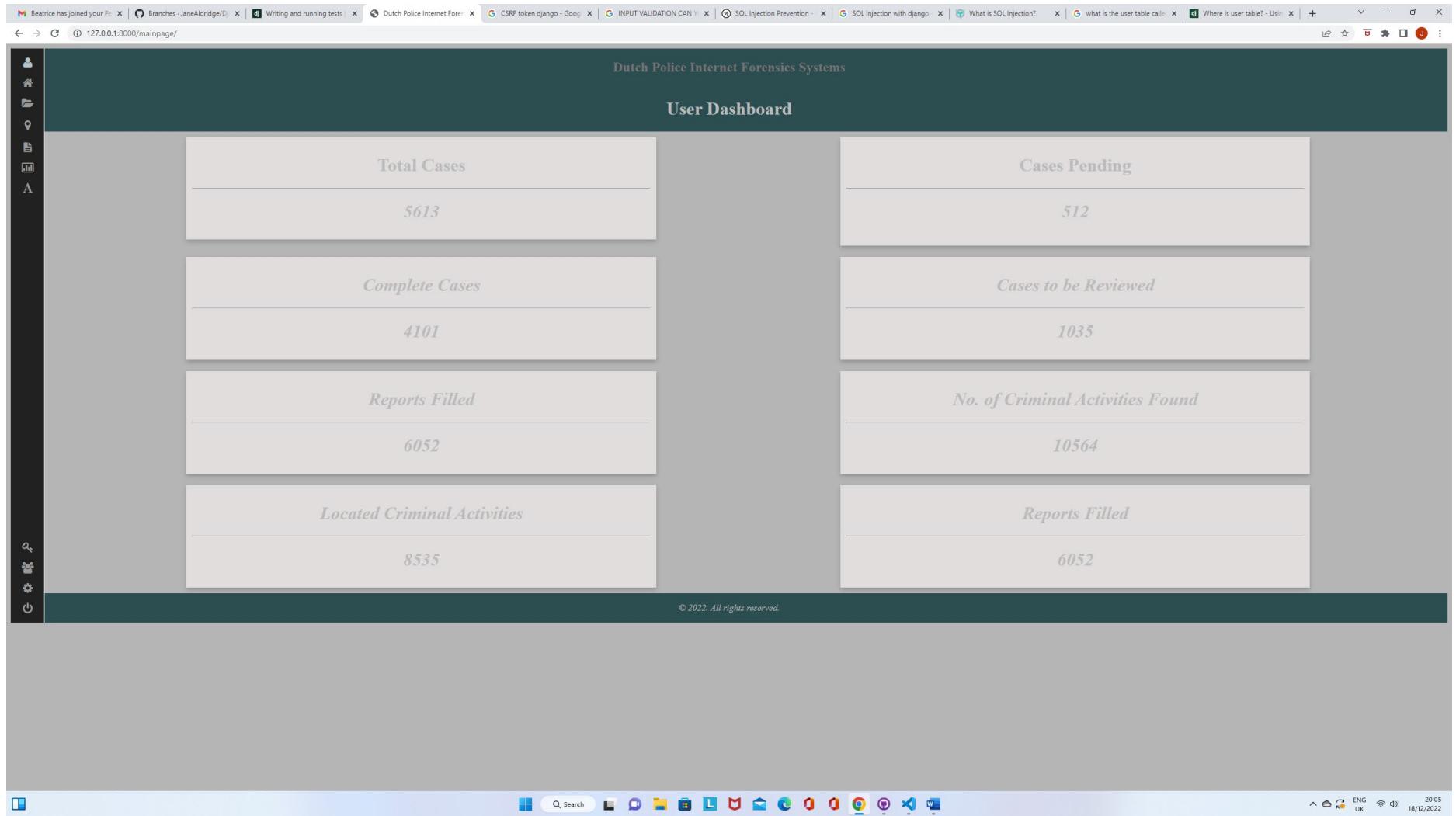
Cases Pending
512

Cases to be Reviewed
1035

No. of Criminal Activities Found
10564

Reports Filled
6052

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Test 4.1 – Login as admin can the dashboard menu options be accessed – TEST PASSED

The screenshot shows a web browser window with multiple tabs open at the top, including links to Beatrice's profile, Branches, Writing and running tests, Dutch Police Internet Forensics Systems, CSRF token django, INPUT VALIDATION CAN, SQL Injection Prevention, SQL injection with django, What is SQL injection?, what is the user table called, Where is user table?, and Using Django's ORM. The main content area displays the 'Manage Users Log Activities' dashboard with the following data:

Category	Value
Total Cases	5613
Complete Cases	4101
Reports Filled	6052
Located Criminal Activities	8535
Cases Pending	512
Cases to be Reviewed	1035
No. of Criminal Activities Found	10564
Reports Filled	6052

The left sidebar contains a navigation menu with the following items:

- Welcome, Jane
- User Dashboard
- Manage Cases
- Search and Locate Criminal Activities
- Create and View Reports
- Manage and Review Reports
- Manage Audits

The bottom left of the sidebar has links for Change Password, Manage Log Activities, Administrator Dashboard (which is highlighted with a blue arrow), and Logout.

The bottom status bar shows the URL 127.0.0.1:8000/admin/login/?next=/admin/, the Windows taskbar with various pinned icons, and system status indicators like battery level, signal strength, and date/time (18/12/2022).

The screenshot shows the Django administration interface at the URL 127.0.0.1:8000/admin/. The top navigation bar includes links for Beatrice's presence, branches, writing tests, site administration, Google search results for various security topics, and user management.

The main content area is titled "Django administration" and "Site administration". It displays two sections: "AUTHENTICATION AND AUTHORIZATION" and "PASSWORD_HISTORY".

- AUTHENTICATION AND AUTHORIZATION:** Contains links for "Groups" (+ Add, Change) and "Users" (+ Add, Change).
- PASSWORD_HISTORY:** Contains links for "Configurations" (+ Add, Change) and "Password history" (+ Add, Change).

The right sidebar features a "Recent actions" list and a "My actions" list, both showing a history of user and group operations.



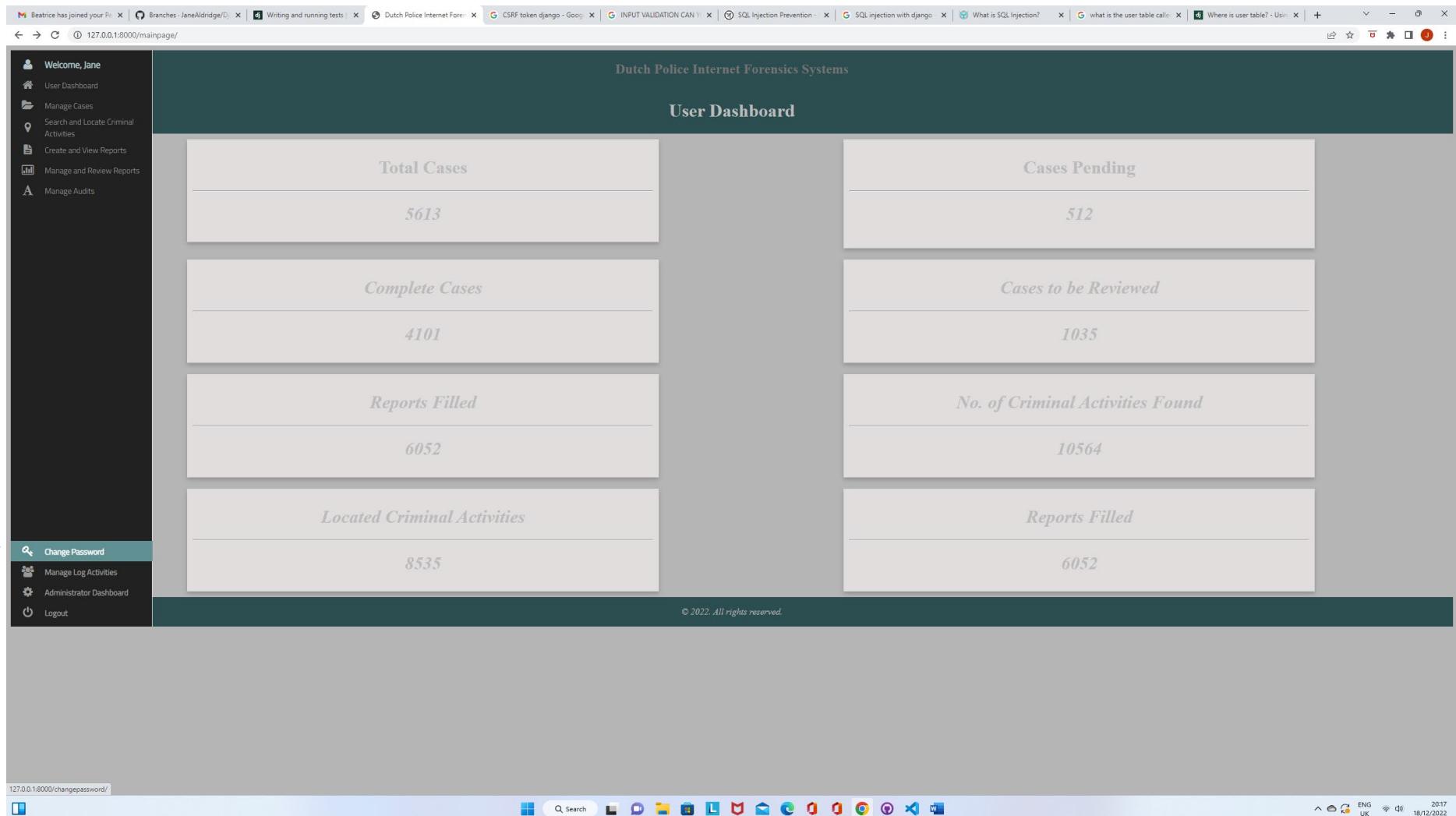
Beatrice has joined your P... | Branches · JaneAldridge/D... | Writing and running tests | Dutch Police Internet Forens... | CSRF token django - Goog... | INPUT VALIDATION CAN... | SQL Injection Prevention - | SQL injection with django... | What is SQL injection? | what is the user table calle... | Where is user table? - Usin... | +

127.0.0.1:8000/userslogs/

The screenshot shows a web-based dashboard for managing user log activities. The top navigation bar includes links for Beatrice's profile, branches, writing and running tests, and various Google search results related to Django and SQL injection prevention. The main title is "Dutch Police Internet Forensics Systems" and the specific page is "Manage Users Log Activities". On the left sidebar, there are several menu items: Welcome, Jane; User Dashboard; Manage Cases; Search and Locate Criminal Activities; Create and View Reports; Manage and Review Reports; and Manage Audits. A blue arrow points to the "Manage Log Activities" option in the sidebar, which is highlighted in green. The main content area displays six statistics in boxes:

Category	Value
Total Cases	5613
Complete Cases	4101
Reports Filled	6052
Located Criminal Activities	8535
Cases Pending	512
Cases to be Reviewed	1035
No. of Criminal Activities Found	10564
Reports Filled	6052

At the bottom of the sidebar, there are links for Change Password, Administrator Dashboard, and Logout. The footer contains the copyright notice "© 2022. All rights reserved." and the system date "18/12/2022". The taskbar at the bottom of the screen shows various open applications.



Django administration

Home : Password change

Password change

Please enter your old password, for security's sake, and then enter your new password twice so we can verify you typed it in correctly.

Old password:

New password:

Your password can't be too similar to your other personal information.
Your password must contain at least 8 characters.
Your password can't be a commonly used password.
Your password can't be entirely numeric.
This password must contain at least 1 letter, 1 digit, 1 lower case letter, 1 upper case letter, 1 special character, such as ~!@#\$%^&*().,-;:|

New password confirmation:

CHANGE MY PASSWORD



Beatrice has joined your P... | Branches · JaneAldridge/D... | Writing and running tests | Dutch Police Internet Forens... | CSRF token django - Goog... | INPUT VALIDATION CAN... | SQL Injection Prevention - | SQL injection with django... | What is SQL injection? | what is the user table calle... | Where is user table? - Usin... | +

127.0.0.1:8000/audits/

Dutch Police Internet Forensics Systems

Manage Audits

Total Cases	Cases Pending
5613	512

Complete Cases	Cases to be Reviewed
4101	1035

Reports Filled	No. of Criminal Activities Found
6052	10564

Located Criminal Activities	Reports Filled
8535	6052

Change Password
Manage Log Activities
Administrator Dashboard
Logout

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127.0.0.1:8000/audits/

Search Bar, Taskbar icons, Language and Date/Time indicators.

Beatrice has joined your P... | Branches · JaneAldridge/D... | Writing and running tests | Dutch Police Internet Forens... | CSRF token django - Goog... | INPUT VALIDATION CAN... | SQL Injection Prevention - | SQL injection with django... | What is SQL injection? | what is the user table calle... | Where is user table? - Usin... | +

127.0.0.1:8000/create_reports/

The screenshot shows the Dutch Police Internet Forensics Systems dashboard. The top navigation bar includes links for Beatrice's profile, Branches, writing and running tests, and several Google search results related to Django and SQL injection. The main title is "Dutch Police Internet Forensics Systems" and the subtitle is "Create, File and View Reports". The left sidebar menu for the user "Jane" includes "Welcome, Jane", "User Dashboard", "Manage Cases", "Search and Locate Criminal Activities", "Create and View Reports" (which is currently selected), "Manage and Review Reports", and "Manage Audits". The right side of the screen displays eight cards with statistical information:

- Total Cases: 5613
- Cases Pending: 512
- Complete Cases: 4101
- Cases to be Reviewed: 1035
- Reports Filled: 6052
- No. of Criminal Activities Found: 10564
- Located Criminal Activities: 8535
- Reports Filled: 6052

At the bottom of the page, there is a footer with the text "© 2022. All rights reserved." and a status bar at the bottom of the screen showing the URL "127.0.0.1:8000/create_reports/", the Windows taskbar with various pinned icons, and system status indicators like battery level, signal strength, and date/time.

Beatrice has joined your P... | Branches · JaneAldridge/D... | Writing and running tests | Dutch Police Internet Forens... | CSRF token django - Goog... | INPUT VALIDATION CAN... | SQL Injection Prevention - | SQL injection with django... | What is SQL injection? | what is the user table calle... | Where is user table? - Usin... | +

127.0.0.1:8000/criminalactivity/

Welcome, Jane

User Dashboard

Manage Cases

Search and Locate Criminal Activities

Create and View Reports

Manage and Review Reports

Manage Audits

Change Password

Manage Log Activities

Administrator Dashboard

Logout

Dutch Police Internet Forensics Systems

Research and Locate Criminal Activity

Total Cases
5613

Complete Cases
4101

Reports Filled
6052

Located Criminal Activities
8535

Cases Pending
512

Cases to be Reviewed
1035

No. of Criminal Activities Found
10564

Reports Filled
6052

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2022 18/12/2022

Beatrice has joined your P... | Branches · JaneAldridge/D... | Writing and running tests | Dutch Police Internet Forens... | CSRF token django - Goog... | INPUT VALIDATION CAN... | SQL Injection Prevention - | SQL injection with django... | What is SQL injection? | what is the user table calle... | Where is user table? - Usin... | +

127.0.0.1:8000/cases/

The screenshot shows the 'Manage Cases' dashboard of the Dutch Police Internet Forensics Systems. The left sidebar includes links for Welcome, User Dashboard, Manage Cases (selected), Search and Locate Criminal Activities, Create and View Reports, Manage and Review Reports, and Manage Audits. The main content area displays six boxes with statistics:

- Total Cases: 5613
- Cases Pending: 512
- Complete Cases: 4101
- Cases to be Reviewed: 1035
- Reports Filled: 6052
- No. of Criminal Activities Found: 10564
- Located Criminal Activities: 8535
- Reports Filled: 6052

At the bottom, there are links for Change Password, Manage Log Activities, Administrator Dashboard, and Logout. The footer includes a copyright notice (© 2022. All rights reserved.) and system status icons (Windows logo, search bar, taskbar icons, network, battery, volume, language, date/time).

Test 4.2 - Login as the Officer - Can the dashboard options be accessed – TEST PASSED

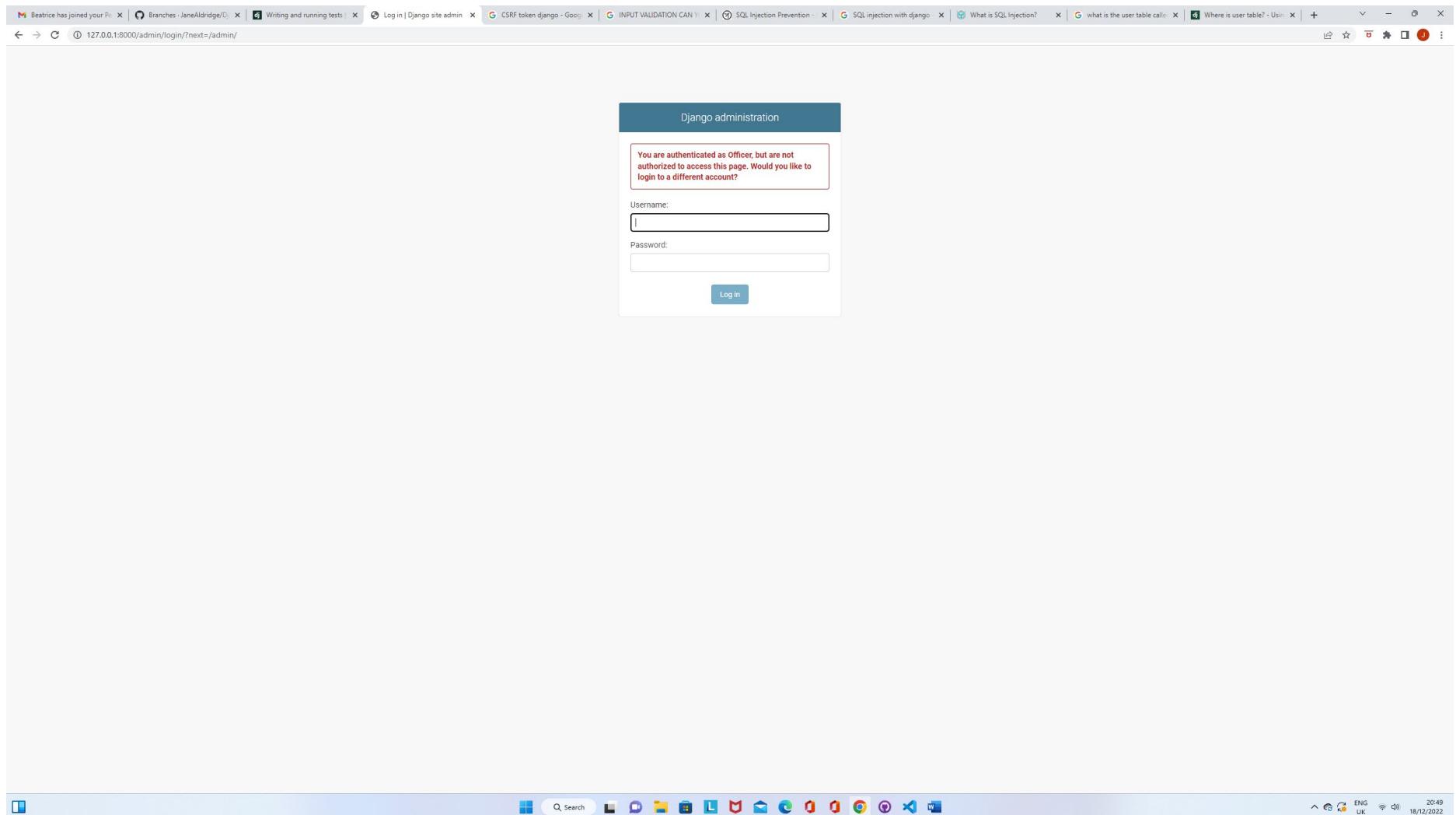
The administrator page should not be available but the officer should have access to the password page

The screenshot shows a web browser window with multiple tabs open at the top, including "Beatrice has joined your Pr...", "Branches - JaneAldridge/D...", "Writing and running tests | x", "Dutch Police Internet Forensics Systems | x", "CSRF token django - Google Search | x", "INPUT VALIDATION CAN | x", "SQL Injection Prevention - | x", "SQL injection with django - | x", "What is SQL Injection? | x", "what is the user table called | x", "Where is user table? - Using | x", and "127.0.0.1:8000/mainpage/". The main content area is titled "User Dashboard" and displays six cards with statistical information:

- Total Cases:** 5613
- Cases Pending:** 512
- Complete Cases:** 4101
- Cases to be Reviewed:** 1035
- Reports Filled:** 6052
- No. of Criminal Activities Found:** 10564
- Located Criminal Activities:** 8535
- Reports Filled:** 6052

The left sidebar menu includes: Welcome, Officer; User Dashboard; Manage Cases; Search and Locate Criminal Activities; Create and View Reports; Manage and Review Reports; Manage Audits; Change Password; Manage Log Activities; Administrator Dashboard (which is highlighted in blue); and Logout.

At the bottom of the page, it says "© 2022. All rights reserved." and shows the URL "127.0.0.1:8000/admin/login/?next=/admin/". The system status bar at the bottom right shows "20:48" and "18/12/2022".



Django administration

Home : Password change

Password change

Please enter your old password, for security's sake, and then enter your new password twice so we can verify you typed it in correctly.

Old password:

New password:

Your password can't be too similar to your other personal information.
Your password must contain at least 8 characters.
Your password can't be a commonly used password.
Your password can't be entirely numeric.
This password must contain at least 1 letter, 1 digit, 1 lower case letter, 1 upper case letter, 1 special character, such as ~!@#\$%^&*(),.-;:|

New password confirmation:

CHANGE MY PASSWORD

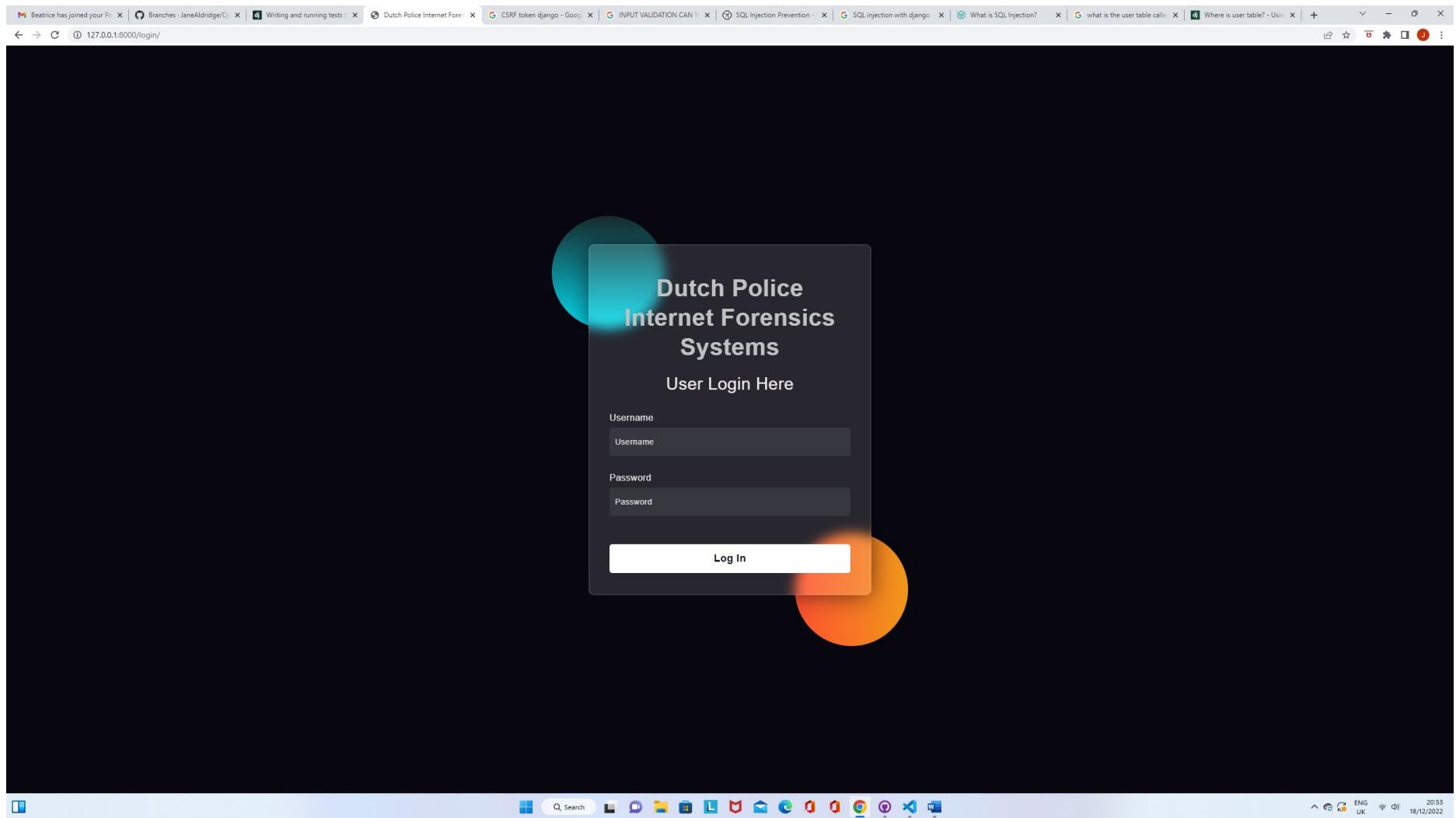


Test 4.2 – Login as the officer and logout from the dashboard – TEST PASSED

The screenshot shows a web browser window with multiple tabs open at the top, including search results for various security topics like CSRF token django, SQL injection prevention, and SQL injection with django. The main content is the 'User Dashboard' of the 'Dutch Police Internet Forensics Systems'. The dashboard features a dark header with the system name and a light gray body divided into six cards:

- Total Cases:** 5613
- Cases Pending:** 512
- Complete Cases:** 4101
- Cases to be Reviewed:** 1035
- Reports Filled:** 6052
- No. of Criminal Activities Found:** 10564
- Located Criminal Activities:** 8535
- Reports Filled:** 6052

The left sidebar contains links for 'Welcome, Officer', 'User Dashboard', 'Manage Cases', 'Search and Locate Criminal Activities', 'Create and View Reports', 'Manage and Review Reports', 'Manage Audits', 'Change Password', 'Manage Log Activities', 'Administrator Dashboard', and 'Logout'. The bottom of the page includes a footer with copyright information and a Windows taskbar at the very bottom.



Test 5.1 – Update the user profile fields which have been added – DOB, gender, department name, location – TEST PASSED

The screenshot shows the Django administration interface for the 'Groups' page. The top navigation bar includes links for 'Inbox (32,154) - janealdrige01@gmail.com', 'JaneAldridge/DjangoForensics', 'Select group to change | Django', and a '+' button. The title 'Django administration' is displayed above the main content area. The left sidebar contains sections for 'AUTHENTICATION AND AUTHORIZATION' (Groups, Users) and 'PASSWORD_HISTORY' (Configurations, Password history). The main content area is titled 'Select group to change' and lists five groups: 'admin', 'junior_security_analysts', 'managers', 'police_officers', and 'senior_security_analysts'. A search bar and a 'Search' button are present. Below the list, it says '0 of 5 selected'. An 'Action:' dropdown menu is shown with an empty selection. A 'GROUP' checkbox is available for selecting multiple items. The bottom of the screen shows the Windows taskbar with various pinned icons and system status indicators.

Inbox (32,155) - janealdrige01@ | JaneAldridge/DjangoForensics | Select user to change | Django site | 127.0.0.1:8000/admin/auth/user/ WELCOME, JANE VIEW SITE / CHANGE PASSWORD / LOG OUT

Django administration

Home Authentication and Authorization > Users

Start typing to filter...

AUTHENTICATION AND AUTHORIZATION

Groups + Add

Users + Add

PASSWORD_HISTORY

Configurations + Add

Password history + Add

Select user to change

SEARCH Search

Action: — Go 0 of 8 selected

USERNAME	EMAIL ADDRESS	FIRST NAME	LAST NAME	STAFF STATUS
Beatrice	beatrice@gmail.com	Beatrice	Mutegi	✓
Jane	janeal@gmail.com	Jane	Aldridge	✓
JunAnalyst		JunAnalyst	Security	✗
Manager		Manager	One	✗
Nikosana	nikona@rocketmail.com	Nikosana	Mlambo	✓
Officer		Officer	One	✗
Pearce	pearc@gmail.com	Pearce	Begley	✓
SenAnalyst		SenAnalyst	Security	✗

8 users

FILTER

↓ By staff status

All
Yes
No

↓ By superuser status

All
Yes
No

↓ By active

All
Yes
No

↓ By groups

All
admin
junior_security_analysts
managers
police_officers
senior_security_analysts

ADD USER +

USERNAME	EMAIL ADDRESS	FIRST NAME	LAST NAME	STAFF STATUS
Beatrice	beatrice@gmail.com	Beatrice	Mutegi	✓
Jane	janeal@gmail.com	Jane	Aldridge	✓
JunAnalyst		JunAnalyst	Security	✗
Manager		Manager	One	✗
Nikosana	nikona@rocketmail.com	Nikosana	Mlambo	✓
Officer		Officer	One	✗
Pearce	pearc@gmail.com	Pearce	Begley	✓
SenAnalyst		SenAnalyst	Security	✗

Inbox (32,155) - janealdrige01 | JaneAldridge/DjangoForensics | Jane | Change user | Django site | 127.0.0.1:8000/admin/auth/user/2/change/ WELCOME, JANE VIEW SITE / CHANGE PASSWORD / LOG OUT

Django administration

Home · Authentication and Authorization · Users · Jane

Start typing to filter...

AUTHENTICATION AND AUTHORIZATION

- Groups [+ Add](#)
- Users** [+ Add](#)

PASSWORD_HISTORY

- Configurations [+ Add](#)
- Password history [+ Add](#)

Change user

Jane

Username: Jane

Required: 150 characters or fewer. Letters, digits and @/_/-/_ only.

Password: pbkdf2_sha256 iterations: 390000 salt: Mi3xNv***** hash: MMTRFq*****

Raw passwords are not stored, so there is no way to see this user's password, but you can change the password using this form.

Personal info

First name: Jane

Last name: Aldridge

Email address: janeal@gmail.com

Permissions

Active Describes whether this user should be treated as active. Unselect this instead of deleting accounts.

Staff status Describes whether the user can log into this admin site.

Superuser status Describes that this user has all permissions without explicitly assigning them.

Groups:

Available groups [?](#)

Filter junior_security_analysts managers police_officers senior_security_analysts

Chosen groups [?](#)

admin

[Choose all](#) [Remove all](#)

The groups this user belongs to. A user will get all permissions granted to each of their groups. Hold down "Control", or "Command" on a Mac, to select more than one.

User permissions:

Available user permissions [?](#)

Filter admin | log entry | Can add log entry admin | log entry | Can change log entry admin | log entry | Can delete log entry admin | log entry | Can view log entry auth | group | Can add group auth | group | Can change group auth | group | Can delete group auth | group | Can view group

Chosen user permissions [?](#)

11:35 ENG UK 19/12/2022

The screenshot shows a Django admin interface for managing users. The top navigation bar includes tabs for 'Inbox (32,155) - janealdrige01@gmail.com', 'JaneAldridge/DjangoForensics', and 'Jane | Change user | Django site'. The URL is 127.0.0.1:8000/admin/auth/user/2/change/. The left sidebar has sections for 'AUTHENTICATION AND AUTHORIZATION' (Groups, Users), 'PASSWORD_HISTORY' (Configurations, Password history), and 'Important dates' (Last login, Date joined). The main content area shows the user 'Jane' with the following details:

- AUTHENTICATION AND AUTHORIZATION:** Groups assigned: police_officers, senior_security_analysts.
- User permissions:** Available user permissions: admin | log entry | Can add log entry, admin | log entry | Can change log entry, admin | log entry | Can delete log entry, admin | log entry | Can view log entry, auth | group | Can add group, auth | group | Can change group, auth | group | Can delete group, auth | group | Can view group, auth | permission | Can add permission, auth | permission | Can change permission, auth | permission | Can delete permission, auth | permission | Can view permission, auth | user | Can add user. Chosen user permissions: None.
- Important dates:**
 - Last login: Date: 2022-12-19, Time: 11:29:02
 - Date joined: Date: 2022-12-13, Time: 07:34:06
- USER PROFILE:** User profile: Jane. Fields include DateOfBirth (1997-09-05), Gender (FEMALE), DepartmentName (Name 2), and DepartmentLocation (Location 2).
- Action buttons:** Delete, Save and add another, Save and continue editing, SAVE.

The bottom of the screen shows the Windows taskbar with various pinned icons and system status indicators.

The screenshot shows a Django admin interface for managing users. On the left, there's a sidebar with sections for AUTHENTICATION AND AUTHORIZATION (Groups, Users) and PASSWORD_HISTORY (Configurations, Password history). The main content area is titled "Jane | Change user | Django site".

AUTHENTICATION AND AUTHORIZATION:

- Groups: police_officers, senior_security_analysts
- Users: Jane

PASSWORD_HISTORY:

- Configurations: Jane
- Password history: Jane

User permissions:

Available user permissions (Choose all, Remove all):

- admin | log entry | Can add log entry
- admin | log entry | Can change log entry
- admin | log entry | Can delete log entry
- admin | log entry | Can view log entry
- auth | group | Can add group
- auth | group | Can change group
- auth | group | Can delete group
- auth | group | Can view group
- auth | permission | Can add permission
- auth | permission | Can change permission
- auth | permission | Can delete permission
- auth | permission | Can view permission
- auth | user | Can add user

Chosen user permissions (Choose all, Remove all):

Important dates:

Last login: Date: 2022-12-19 Today | Time: 11:29:02 Now |

Date joined: Date: 2022-12-13 Today | Time: 07:34:06 Now |

USER PROFILE:

User profile: Jane

DateOfBirth: 1996-02-01 Today |

Gender: MALE

DepartmentName: Name 4

DepartmentLocation: Location 4

Save and add another Save and continue editing **SAVE**

At the bottom, there's a taskbar with various icons and system status information: ENG UK 11:44 19/12/2022.

The screenshot shows the Django administration interface for the 'Users' model. The top navigation bar includes links for 'Inbox (32,155)', 'JaneAldridge/DjangoForensics', 'Select user to change | Django s...', and '127.0.0.1:8000/admin/auth/user/'. The top right corner displays 'WELCOME, JANE' with options to 'VIEW SITE / CHANGE PASSWORD / LOG OUT'. The main title is 'Django administration' with a subtitle 'Home : Authentication and Authorization > Users'. A success message 'The user "Jane" was changed successfully.' is visible. The left sidebar lists 'Groups' (with '+ Add'), 'Users' (selected, with '+ Add'), and 'PASSWORD_HISTORY' (with '+ Add'). The main content area is titled 'Select user to change' and contains a table with columns: USERNAME, EMAIL ADDRESS, FIRST NAME, LAST NAME, and STAFF STATUS. The table lists eight users: Beatrice, Jane, JunAnalyst, Manager, Nikosana, Officer, Pearce, and SenAnalyst. The 'STAFF STATUS' column uses green checkmarks for staff users and red crossed-out circles for non-staff users. A search bar and a 'Go' button are at the top of the table. To the right of the table is a 'FILTER' sidebar with dropdown menus for 'By staff status' (All, Yes, No), 'By superuser status' (All, Yes, No), 'By active' (All, Yes, No), and 'By groups' (listing 'admin', 'junior_security_analysts', 'managers', 'police_officers', and 'senior_security_analysts'). The bottom status bar shows icons for file operations, search, and system status, along with text indicating 'ENG UK' and the date '19/12/2022'.

USERNAME	EMAIL ADDRESS	FIRST NAME	LAST NAME	STAFF STATUS
Beatrice	beae@gmail.com	Beatrice	Mutegi	✓
Jane	janeal@gmail.com	Jane	Aldridge	✓
JunAnalyst		JunAnalyst	Security	✗
Manager		Manager	One	✗
Nikosana	nkona@rocketmail.com	Nikosana	Mlambo	✓
Officer		Officer	One	✗
Pearce	pearc@gmail.com	Pearce	Begley	✓
SenAnalyst		SenAnalyst	Security	✗

The screenshot shows a Django admin interface for managing users. On the left, there's a sidebar with sections for AUTHENTICATION AND AUTHORIZATION (Groups, Users) and PASSWORD_HISTORY (Configurations, Password history). The main content area is titled "Jane | Change user | Django site".

Groups: police_officers, senior_security_analysts

User permissions:

- Available user permissions:
 - admin | log entry | Can add log entry
 - admin | log entry | Can change log entry
 - admin | log entry | Can delete log entry
 - admin | log entry | Can view log entry
 - auth | group | Can add group
 - auth | group | Can change group
 - auth | group | Can delete group
 - auth | group | Can view group
 - auth | permission | Can add permission
 - auth | permission | Can change permission
 - auth | permission | Can delete permission
 - auth | permission | Can view permission
 - auth | user | Can add user
- Chosen user permissions: None

Important dates:

- Last login: Date: 2022-12-19, Time: 11:29:02
- Date joined: Date: 2022-12-13, Time: 07:34:06

User Profile:

- User profile: Jane
- DateOfBirth: 1996-02-01
- Gender: MALE
- DepartmentName: Name 4
- DepartmentLocation: Location 4

Buttons: Delete, Save and add another, Save and continue editing, SAVE

At the bottom, there's a taskbar with various icons and system status information: ENG UK, 11:49, 19/12/2022.

Test 6.1 – Create a new user and then logon with that user – TEST PASSED

Django administration

Add user

Start typing to filter...

AUTHENTICATION AND AUTHORIZATION

Groups + Add

Users + Add

PASSWORD_HISTORY

Configurations + Add

Password history + Add

First, enter a username and password. Then, you'll be able to edit more user options.

Username: ALdridge98
Required: 150 characters or fewer. Letters, digits and @/_+/- only.

Password: *****
Your password can't be too similar to your other personal information.
Your password must contain at least 8 characters.
Your password can't be a commonly used password.
Your password can't be entirely numeric.
This password must contain at least 1 letter, 1 digit, 1 lower case letter, 1 upper case letter, 1 special character, such as ~!@#\$%^&*()_+-;:|.

Password confirmation: *****
Enter the same password as before, for verification.

USER PROFILE

User profile: #1

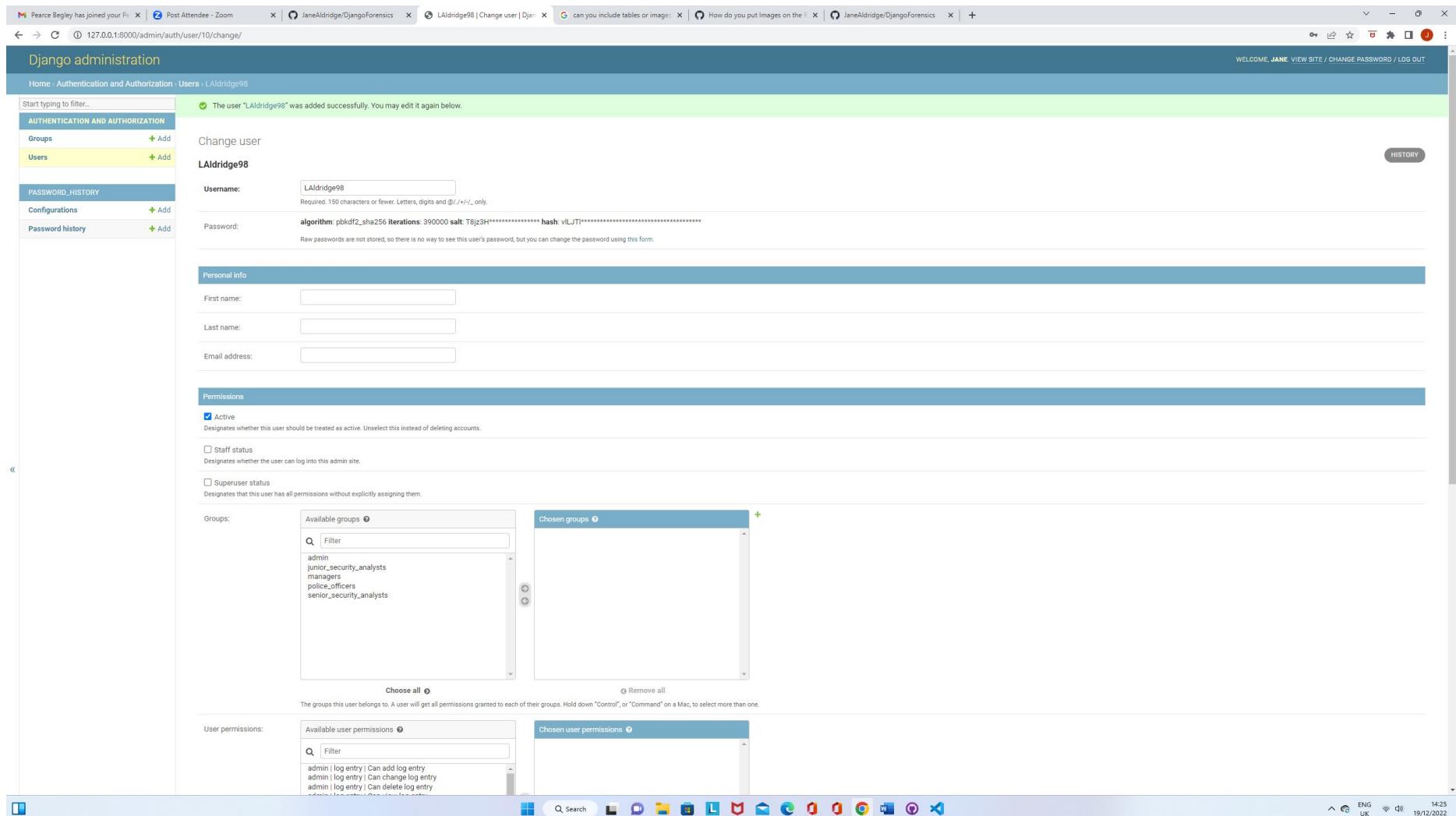
DateOfBirth: 2014-01-09 Today |

Gender: FEMALE

DepartmentName: Name 1

DepartmentLocation: Location 1

Save and add another Save and continue editing SAVE



The screenshot shows the Django Admin interface for a user named 'LAlridge98'. The top navigation bar includes links for Pearce Begley, Post Attendee - Zoom, JaneAldridge/DjangoForensics, LAlridge98 | Change user | Django, Google search results, and other tabs.

AUTHENTICATION AND AUTHORIZATION

- Active: Designates whether this user should be treated as active. Unselect this instead of deleting accounts.
- Staff status: Designates whether the user can log in into this admin site.
- Superuser status: Designates that this user has all permissions without explicitly assigning them.

Groups: Available groups: admin, managers, police_officers, senior_security_analysts. Chosen groups: junior_security_analysts.

User permissions: Available user permissions: auth | permission | Can add permission, auth | permission | Can change permission, auth | permission | Can delete permission, auth | permission | Can view permission, auth | user | Can add user, auth | user | Can change user, auth | user | Can delete user, auth | user | Can view user, contenttypes | content type | Can add content type, contenttypes | content type | Can change content type, contenttypes | content type | Can delete content type, contenttypes | content type | Can view content type, internetForensics | user profile | Can add user profile, internetForensics | user profile | Can change user profile, internetForensics | user profile | Can delete user profile. Chosen user permissions: contenttypes | content type | Can add content type.

Important dates

Last login: Date: [] Today | Time: [] Now |

Date joined: Date: 2022-12-19 Today | Time: 14:25:45 Now |

USER PROFILE

User profile: LAlridge98

DateOfBirth: 2014-01-09 Today |

System footer: ENG UK 14:26 19/12/2022

Pearce Begley has joined your Pi | Post Attendee - Zoom | JaneAldridge/DjangoForensics | Select user to change | Django | can you include tables or images | How do you put images on the | JaneAldridge/DjangoForensics | + | 127.0.0.1:8000/admin/auth/user/ | WELCOME, JANE | VIEW SITE / CHANGE PASSWORD / LOG OUT

Django administration

Home Authentication and Authorization > Users

Start typing to filter...

AUTHENTICATION AND AUTHORIZATION

Groups + Add

Users + Add

PASSWORD_HISTORY

Configurations + Add

Password history + Add

The user "Aldridge98" was changed successfully.

Select user to change

SEARCH

Action: — Go 0 of 10 selected

USERNAME	EMAIL ADDRESS	FIRST NAME	LAST NAME	STAFF STATUS
Beatrice	bee@gmail.com	Beatrice	Mutegl	✓
Jane	janeal@gmail.com	Jane	Aldridge	✓
Joanne	janealdridge@gmail.com	Joanne	Aldridge	✗
JunAnalyst		JunAnalyst	Security	✗
LALdrige98				✗
Manager		Manager	One	✗
Nkosana	nkona@rocketmail.com	Nkosana	Mlombo	✓
Officer		Officer	One	✗
Pearce	pearc@gmail.com	Pearce	Begley	✓
SenAnalyst		SenAnalyst	Security	✗

10 users

FILTER

By staff status

All Yes No

By superuser status

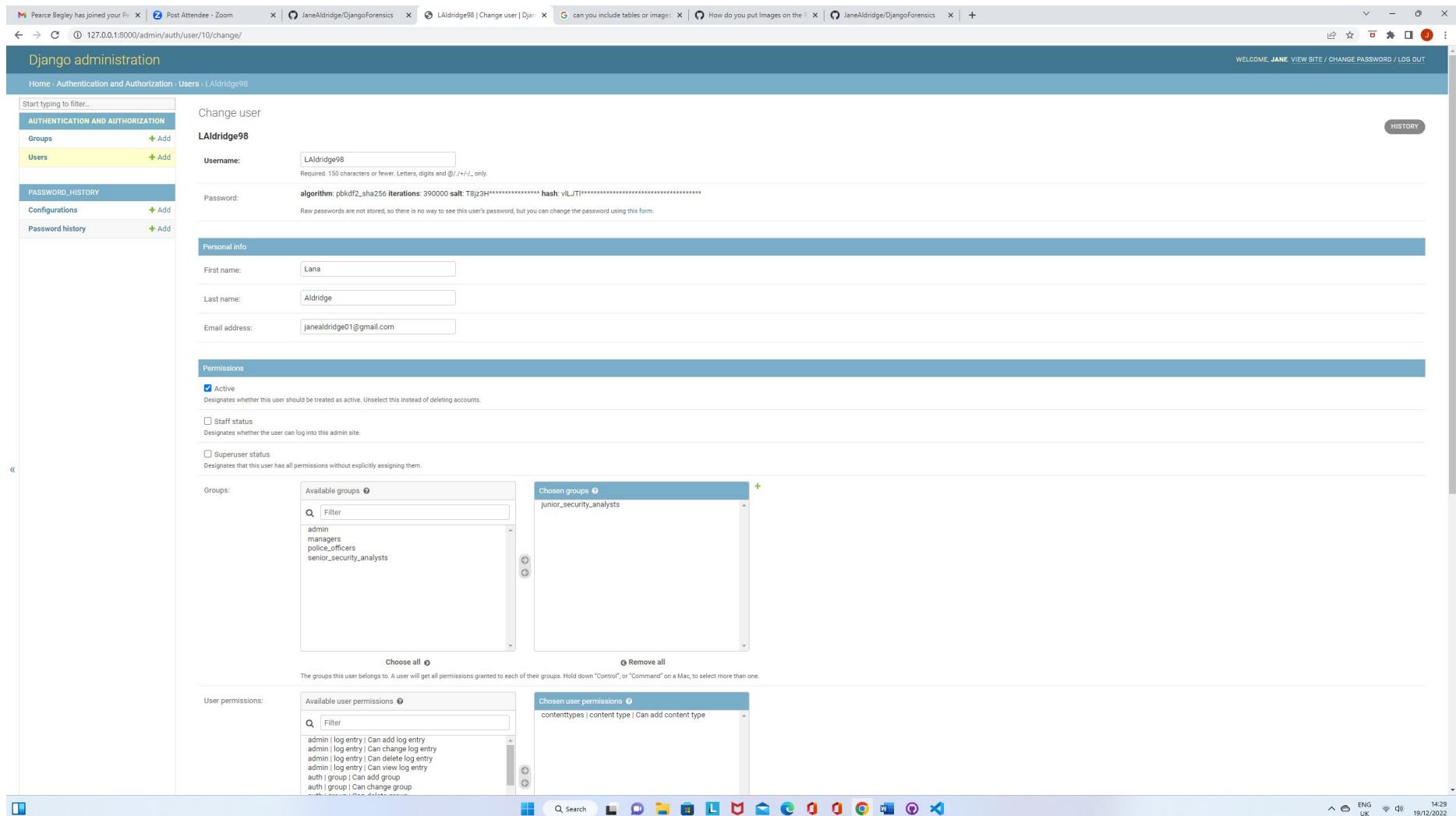
All Yes No

By active

All Yes No

By groups

All admin junior_security_analysts managers police_officers senior_security_analysts -



Pearce Begley has joined your Pi | Post Attendee - Zoom | JaneAldridge/DjangoForensics | Select user to change | Django | can you include tables or images | How do you put images on the | JaneAldridge/DjangoForensics | + | 127.0.0.1:8000/admin/auth/user/ | WELCOME, JANE | VIEW SITE / CHANGE PASSWORD / LOG OUT

Django administration

Home · Authentication and Authorization · Users

Start typing to filter...

AUTHENTICATION AND AUTHORIZATION

Groups [+ Add](#)

Users [+ Add](#)

PASSWORD_HISTORY

Configurations [+ Add](#)

Password history [+ Add](#)

Select user to change

Action: [———](#) [Go](#) 0 of 10 selected

<input type="checkbox"/> USERNAME	EMAIL ADDRESS	FIRST NAME	LAST NAME	STAFF STATUS
<input type="checkbox"/> Beatrice	beate@gmail.com	Beatrice	Mutegi	✓
<input type="checkbox"/> Jane	janeal@gmail.com	Jane	Aldridge	✓
<input type="checkbox"/> Joanne	janealdridge@gmail.com	Joanne	Aldridge	✗
<input type="checkbox"/> JunAnalyst		JunAnalyst	Security	✗
<input type="checkbox"/> LAldridge98	janealdridge01@gmail.com	Lana	Aldridge	✗
<input type="checkbox"/> Manager		Manager	One	✗
<input type="checkbox"/> Nkosana	nkona@rocketmail.com	Nkosana	Mlambo	✓
<input type="checkbox"/> Officer		Officer	One	✗
<input type="checkbox"/> Pearce	pearc@gmail.com	Pearce	Begley	✓
<input type="checkbox"/> SenAnalyst		SenAnalyst	Security	✗

10 users

FILTER

↓ By staff status

All
Yes
No

↓ By superuser status

All
Yes
No

↓ By active

All
Yes
No

↓ By groups

All
admin
junior_security_analysts
managers
police_officers
senior_security_analysts
-



ENG UK 19/12/2022 14:29

Pearce Begley has joined your P... | Post Attendee - Zoom | JaneAldridge/DjangoForensics | Google can you include tables or images | How do you put images on the... | JaneAldridge/DjangoForensics | Dutch Police Internet Forensics | 127.0.0.1:8000/mainpage/ +

Dutch Police Internet Forensics Systems

User Dashboard

Total Cases 5613	Cases Pending 512
Complete Cases 4101	Cases to be Reviewed 1035
Reports Filled 6052	No. of Criminal Activities Found 10564
Located Criminal Activities 8535	Reports Filled 6052

Change Password | Manage Log Activities | Administrator Dashboard | Logout

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Windows Search Bar | Taskbar Icons (File Explorer, Control Panel, Mail, etc.) | Language: ENG UK | Date: 19/12/2022 | Time: 14:57