# University of Essex Post Graduate Certificate in Computer Science

**Unit 3: Secure Software Development** 

**Development Team Project: Code Output** 

**Created by** 

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#### **Secure Software Application**

The National Cyber Security Centre (NCSC) is the governing body of cybersecurity in the Netherlands, with a goal of increasing resilience to internet crime, which has been on the rise (Bendovschi, 2015). It is responsible for ensuring digital security through continuous monitoring, alerting public authorities of suspect sources, informing the public, and ensuring patched security systems (ICO, n.d.).

This application has been created as a platform for NCSC officers to perform these crucial tasks in a GDPR compliant way.

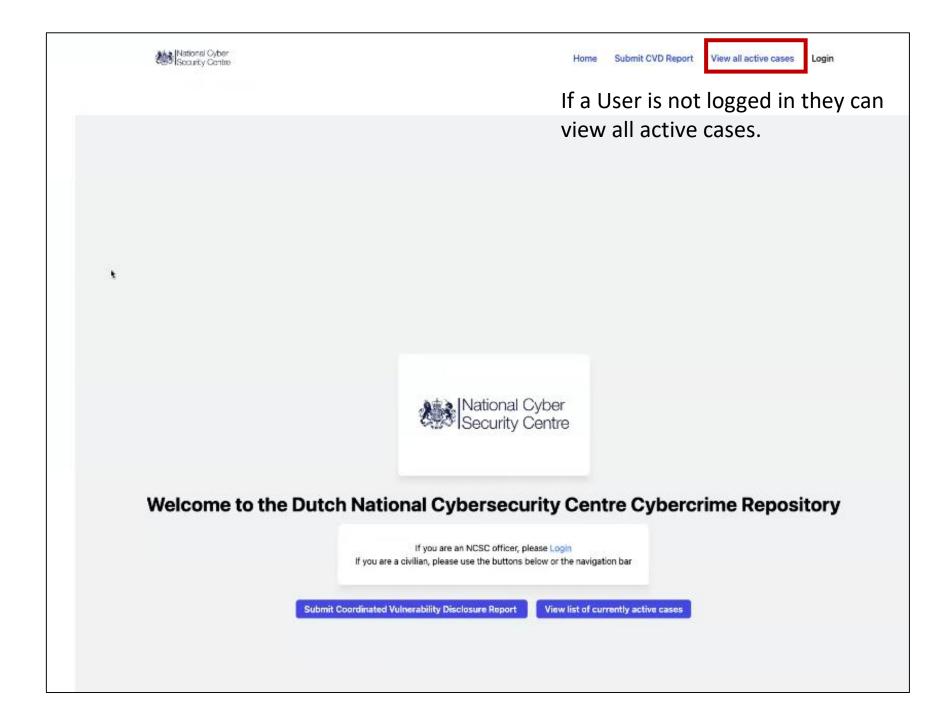
#### Users, Roles, and Authorisation

There are 3 primary authorised types of users on this platform:

- Admin users to perform account management activities,
- Officer users who will manage CVD forms and create cases, and
- General users, who can create CVD forms without the need for authentication.

### **General Users Non Logged In**

This what a user can do to report a vulnerability without being logged in.

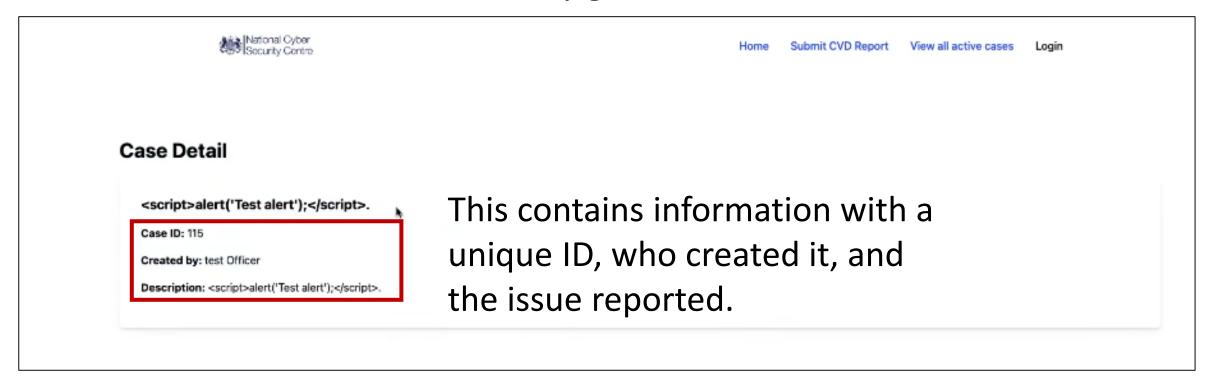


#### **General Users - View All Active Cases**

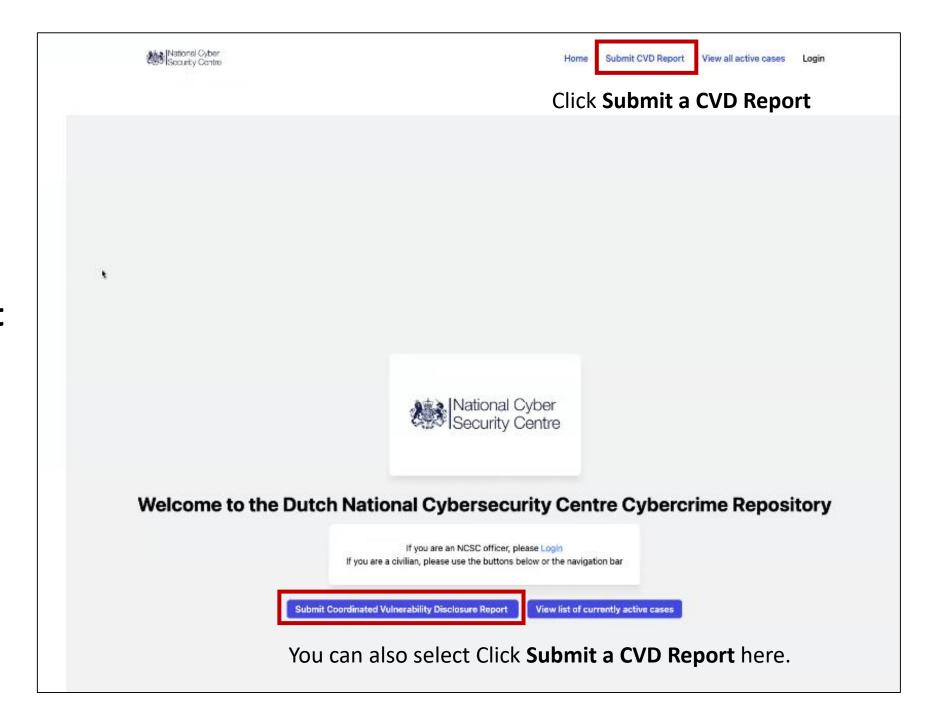


#### **General Users - Case Detail**

This shows the case detail file of any given case.



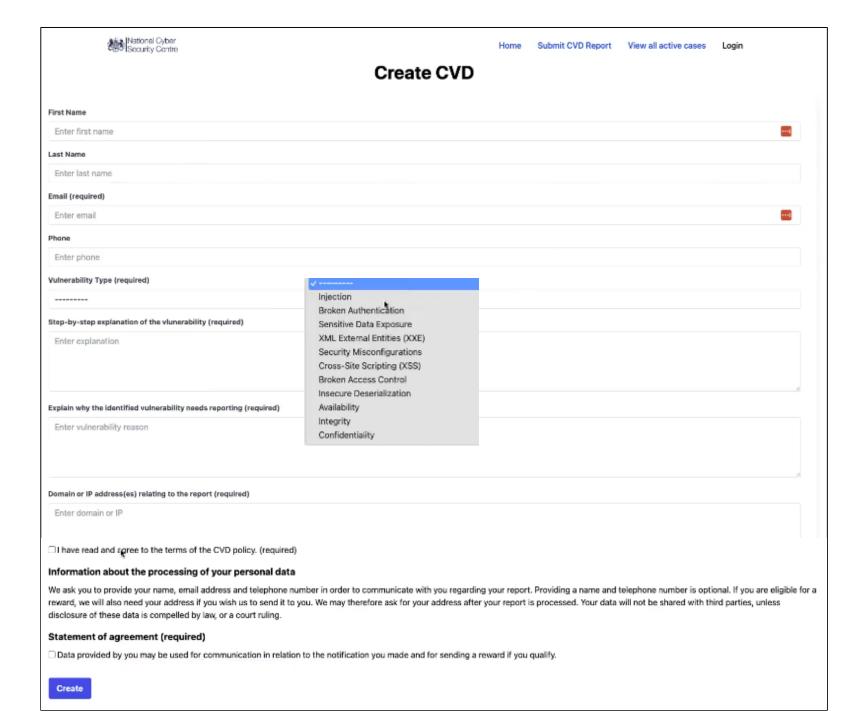
# General Users Non Logged in Submit a CVD Report



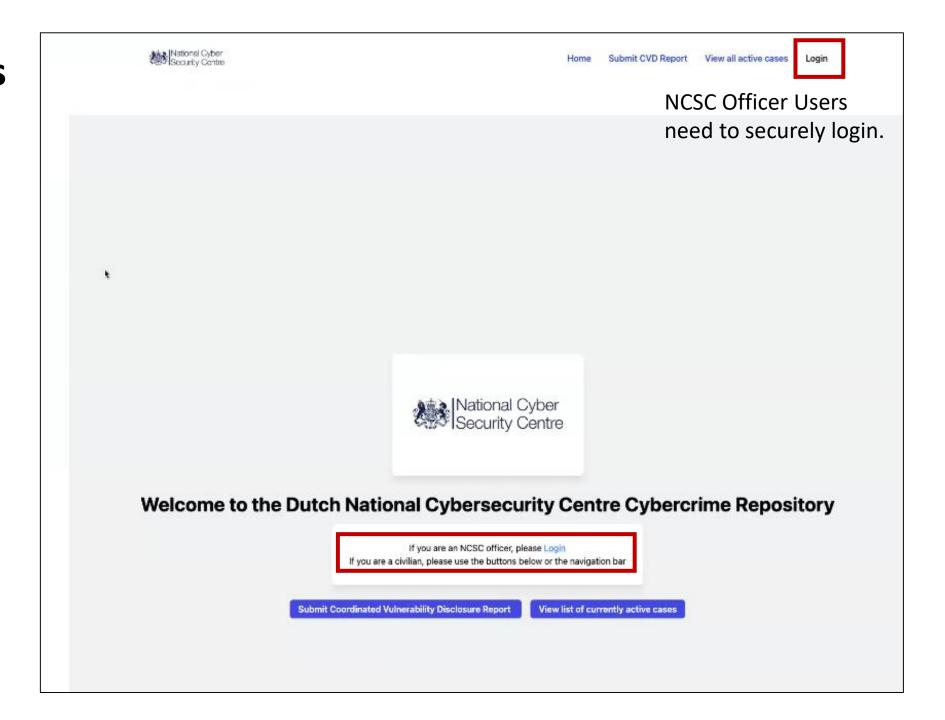
### **General Users Create a CVD**

This User will fill in all the required fields. There is a dropdown menu for 'Vulnerability Type'.

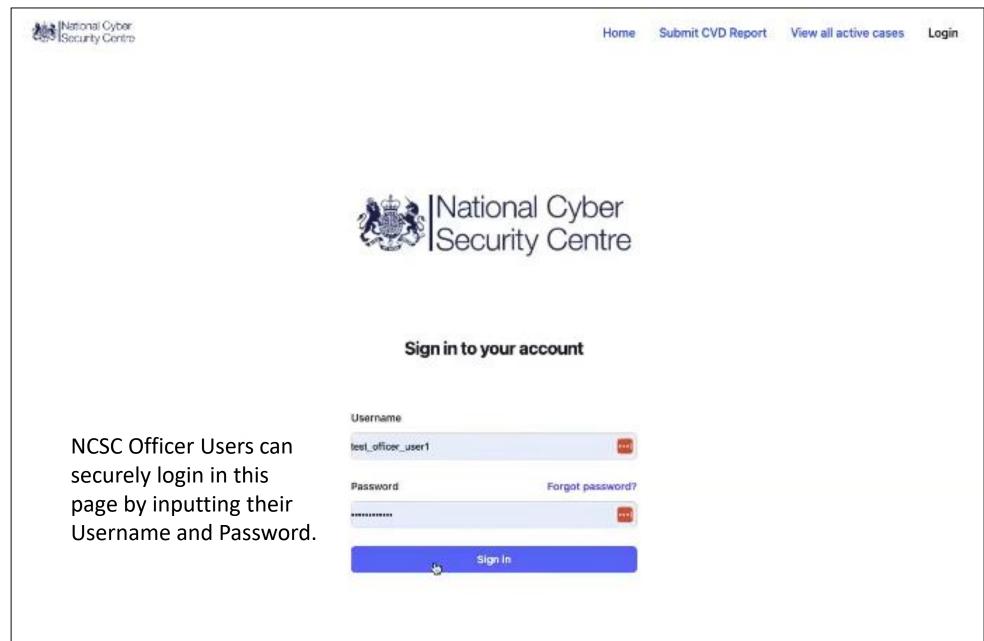
At the bottom there are disclaimers about use of data to ensure it is GDPR compliant.



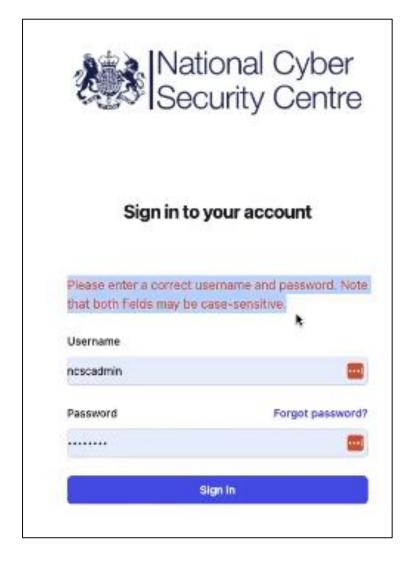
#### **NCSC Officer Users**



#### **NCSC Officer Users Login Page**



#### **NCSC Officer Users Login**



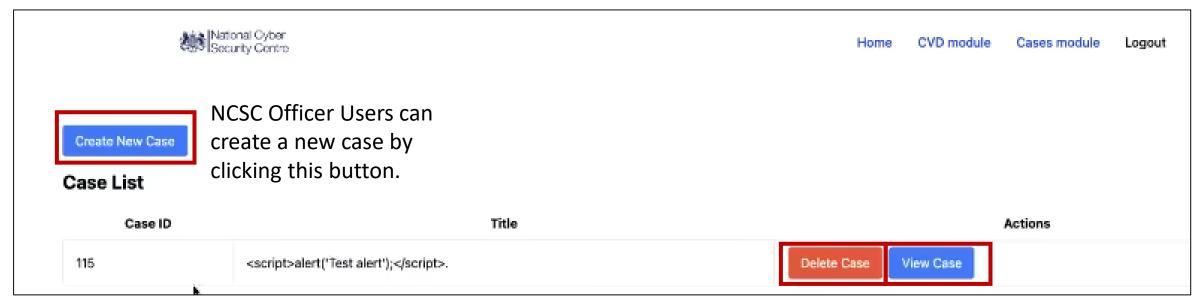
Failed logins will be captured and IP addresses logged and all API calls that are made.

```
[07/Jul/2023 21:42:47] "GET /static/admin/css/changelists.css HTTP/1.1" 304 0
[07/Jul/2023 21:42:47] "GET /admin/jsi18n/ HTTP/1.1" 200 3343
[07/Jul/2023 21:42:47] "GET /static/admin/img/icon-no.svg HTTP/1.1" 304 0
[07/Jul/2023 21:42:47] "GET /static/admin/js/filters.js HTTP/1.1" 304 0
[07/Jul/2023 21:42:47] "GET /static/admin/img/sorting-icons.svg HTTP/1.1" 304 0
[07/Jul/2023 21:42:47] "GET /static/admin/img/tooltag-add.svg HTTP/1.1" 304 0
Not Found: /favicon.ico
[07/Jul/2023 21:42:47] "GET /favicon.ico HTTP/1.1" 404 3760
[07/Jul/2023 21:43:02] "POST /admin/logout/ HTTP/1.1" 200 4024
[07/Jul/2023 21:43:04] "GET /accounts/login/ HTTP/1.1" 200 5912
Failed login attempt - Username: haarismian, IP address: 127.0.0.1
[07/Jul/2023 21:43:12] "POST /accounts/login/ HTTP/1.1" 200 6049
Not Found: /favicon.ico
[07/Jul/2023 21:43:13] "GET /favicon.ico HTTP/1.1" 404 3760
Not Found: /favicon.ico
[07/Jul/2023 21:43:13] "GET /favicon.ico HTTP/1.1" 404 3760
```

#### **NCSC Officer Users Home Page**

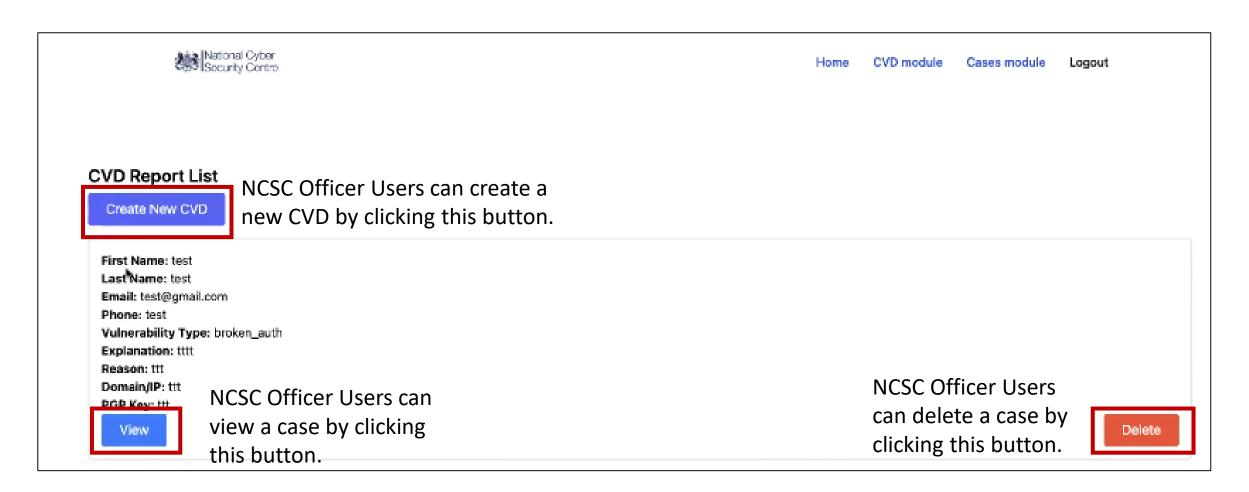


#### NCSC Officer Users View list of currently active cases



NCSC Officer Users can view cases or delete a case by clicking these buttons.

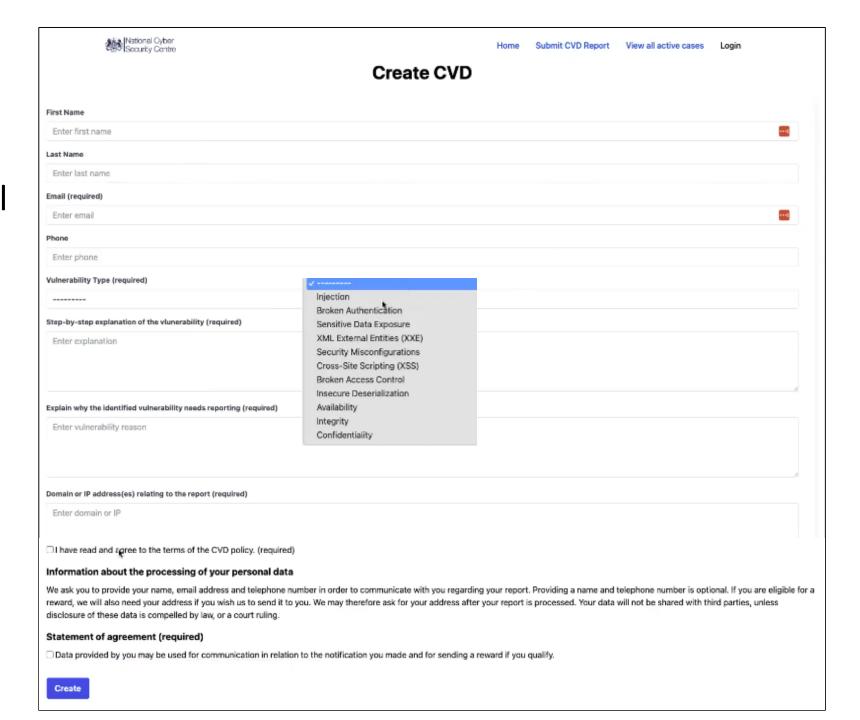
### NCSC Officer Users Go to CVD page



### NCSC Officer User Create a CVD

This NCSC Officer User will fill in all the required fields. There is a dropdown menu for 'Vulnerability Type'.

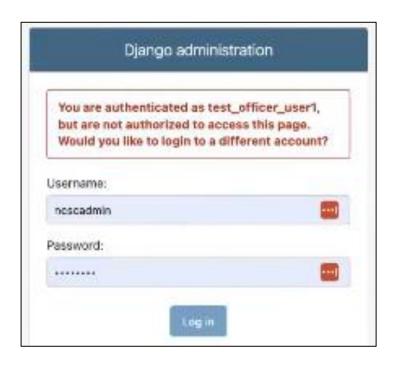
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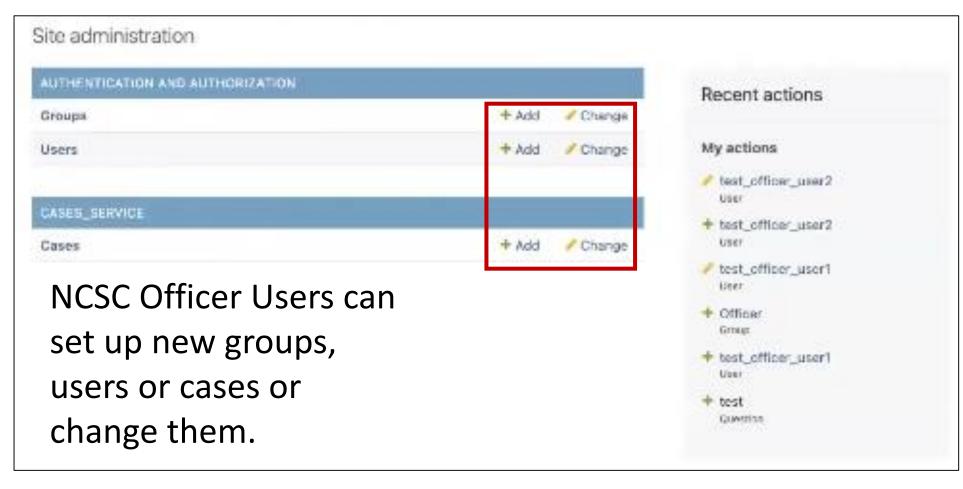
#### **NCSC Officer User Admin Rights**

Default Admin Login	Default Admin Password
ncsc_admin	ssd_password

This NCSC Officer
User can login into
the Django
Administration.



#### **NCSC Officer User Admin Rights**

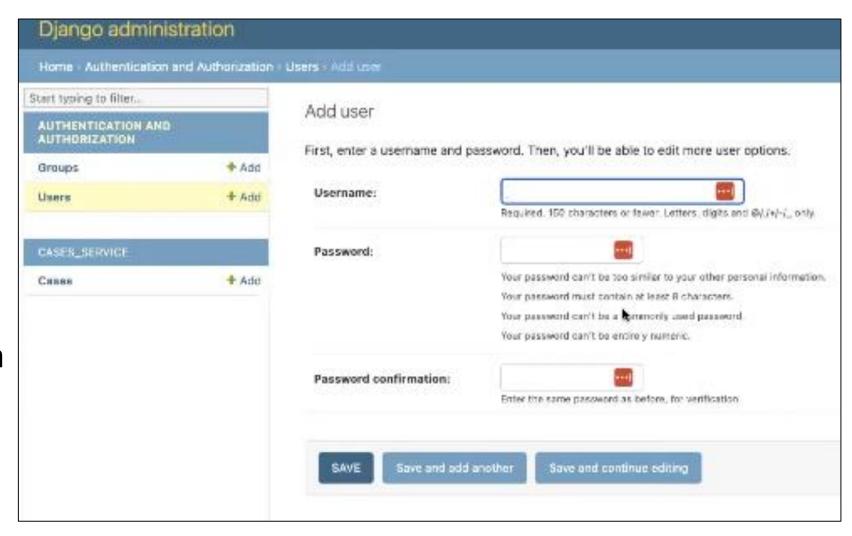


Any recent login action is displayed here.

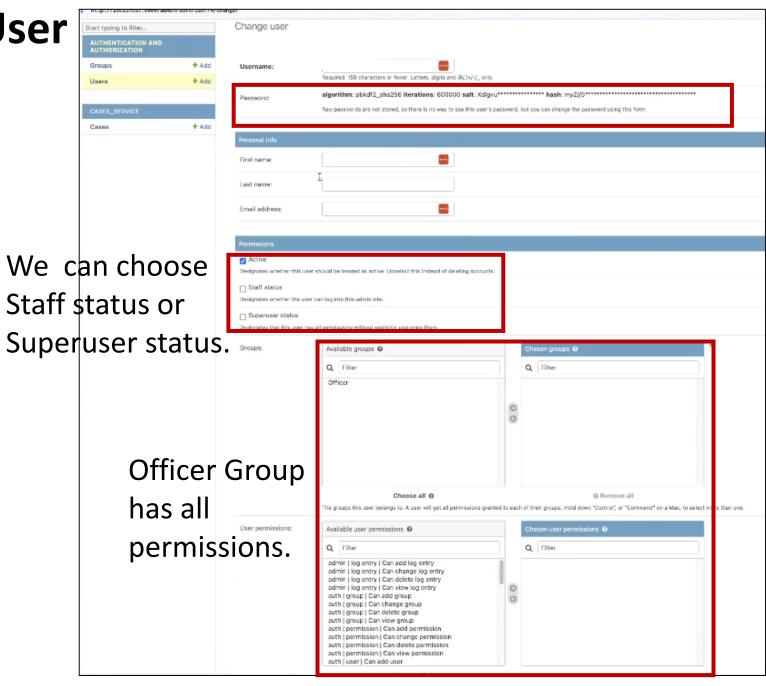
#### **NCSC Officer User Create New User**

This NCSC Officer
User can add a new user.

The password must meet certain criteria to ensure strength.



## NCSC Officer User Change User



Password is GDPR compliant

## NCSC Officer User User List

