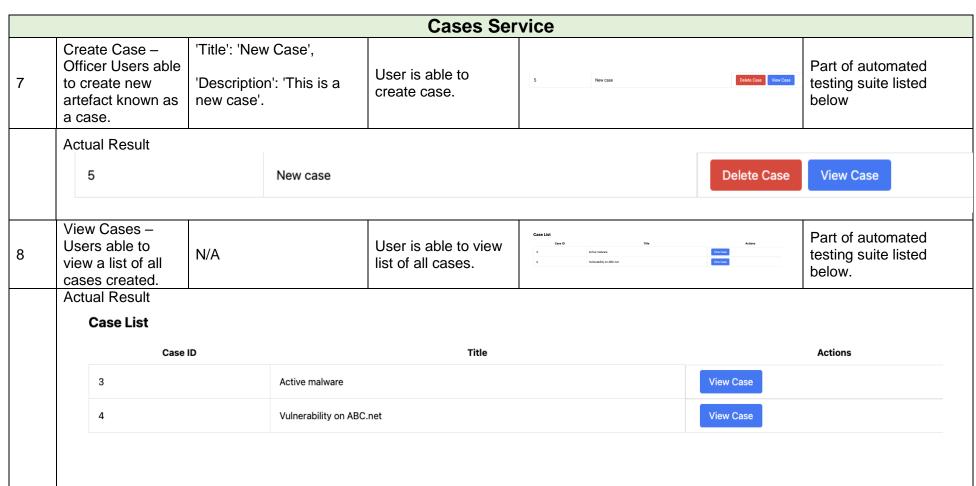
Test	Test	Test Data	Expected Result	Actual Result	Notes
No.	Description	Test Data	Expected Result	Actual Nesult	140165

			Base Applic	cation				
1	Create User - Admin user can create accounts for Officer user type.	Username: test_officer1 Password: ssd_password	Successful account creation.	The user "lest_officer!" was added successfully. You may edit it again below. Change User test_officer! Username: Separate 100 characters or feer. Listent, digits and digits	Successfully created an account.			
	Actual Result		1					
	The user "test_o	fficer1" was added successfully. Y	ou may edit it again below.					
	Change user test_officer1 Username:	test_officer1	fower Letters digits and @//4//	only				
	Password: Required. 150 characters or fewer. Letters, digits and @/./+/-/_ only. Password: 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.							
2	Delete User - Admin User can delete accounts.	Username: test_officer1 Password: ssd_password.	Successful account deletion.	The user "test_officer1" was deleted successfully.	Successfully deleted the account.			
3	User Login – Able to login to system and authenticated.	Previously created account with correct username and password Username: ssd_team2 Password: ssd_password	Successful login.	Welcome to the Dutch National Cybersecurity Centre Cybercrime Repository Welcome, Syntax Squad! Last Login: July 17, 2023, 6:72 a.m. Welcome, Syntax Squad! Last Login: July 17, 2023, 6:12 a.m.	Part of automated testing suite listed below.			

Test	Test	Toot Date	Evenested Deput	Actual Beaut	Notes
No.	Description	Test Data	Expected Result	Actual Result	Notes

			Base Applic	ation	
4	User login – unable to login with incorrect username and password	'username': self.username, 'password': 'wrongpassword'	Invalid login.	Sign in to your account Please enter a correct username and password. Note that both fields may be case-sensitive. Username self.username Password Forgot password? Sign in	Part of automated testing suite listed below.
5	User Logout – Admin and Officer able to logout of system.	Previously logged in account with correct username and password Username: ssd_team2 Password: ssd_password	Successful logout.	Logged Out You have been successfully logged out. Log in again? Return to home page	Successfully logged out.

Test No.	Test Description	Test Data	Expected Result	Actual Result	Notes	
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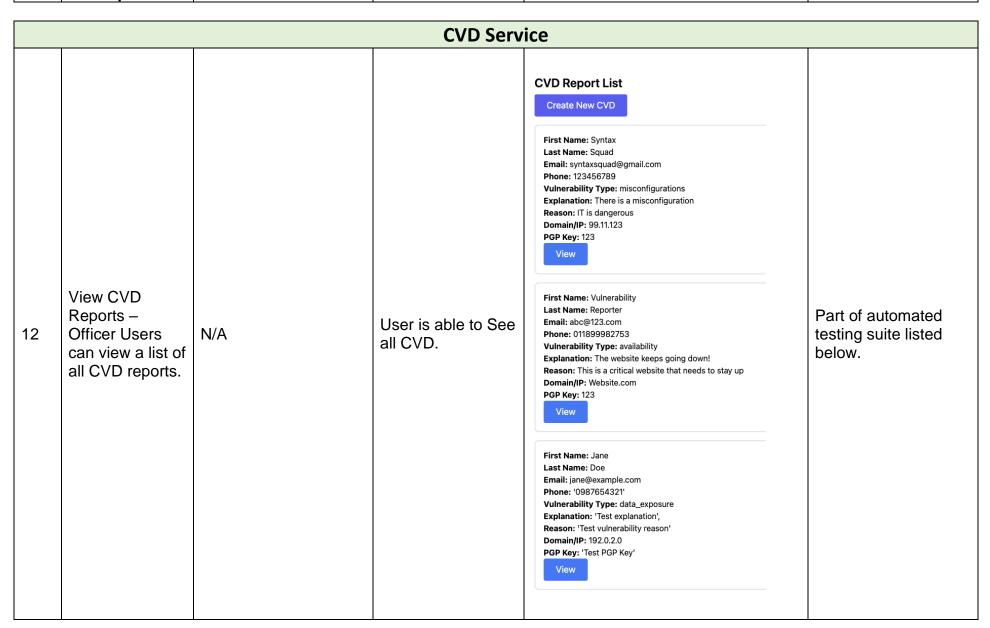
Test	Test	Toot Date	Expected Decult	Actual Deput	Netes
No.	Description	Test Data	Expected Result	Actual Result	Notes

			Cases Ser	vice	
9	View cases – User is able to see detailed view of single case.	N/A	User is able to view single case.	Case Detail Active malware Case ID: 3 Created by: Syntax Squad Description: There is active malware on XYZ.com	Part of automated testing suite listed below.
10	View cases – User is unable to see detailed view of single case when trying to go to incorrect url.	Go to url/cases/453	User is able to view single case.	i http://localhost:8000/cases/453/ Page not found (404) No case found matching the query Request Method: GET Request URL: http://localhost:8000/cases/453/ Ralsed by: cases_service.views.CaseDetailView Using the URLcord defined in base_app.urls, Django tried these URL patterns, in 1. [name='home'] 2. cases/ [name='case_list'] 3. cases/ <int:pk>/ [name='case_detail']</int:pk>	Part of automated testing suite listed below.
11	Delete Cases – Officer Users able to delete cases.	N/A	User is able to delete single case.		Part of automated testing suite listed below.

Test	Test	Toot Data	Expected Decult	Actual Beault	Notes
No.	Description	Test Data	Expected Result	Actual Result	Notes

			CVD Service		
11	Create CVD Report – The General Public (non-account user) can create a Coordinated Vulnerability Disclosure.	'first_name': 'Jane', 'last_name': 'Doe', 'email': 'jane@example.com', 'phone': '0987654321', 'vulnerability_type': 'insecure_deserialization' , 'explanation': 'Test explanation', 'vulnerability_reason': 'Test vulnerability reason', 'domain_or_ip': '192.0.2.0', 'pgp_key': 'Test PGP Key'	User is able to create CVD.	First Name: Jane Last Name: Doe Email: jane@example.com Phone: '0987654321' Vulnerability Type: data_exposure Explanation: 'Test explanation', Reason: 'Test vulnerability reason' Domain/IP: 192.0.2.0 PGP Key: 'Test PGP Key' View	Part of automated testing suite listed below.

Test	Test	Toot Date	Evenested Deput	Actual Beaut	Notes
No.	Description	Test Data	Expected Result	Actual Result	Notes

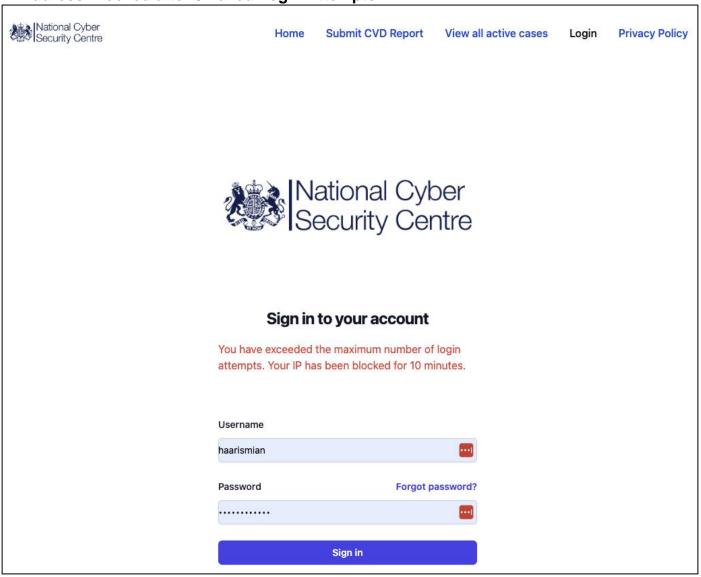


Test No.	Test Description	Test Data	Expected Result	Actual Result	Notes
13	Delete CVD Report – Officer Users able to delete CVD Reports.	N/A	User is able to delete CVD report.	Jane Doe CVD no longer in list seen in test 10 CVD Report List Create New CVD First Name: Syntax Last Name: Squad Email: syntaxsquad@gmail.com Phone: 123456789 Vulnerability Type: misconfigurations Explanation: There is a misconfiguration Reason: IT is dangerous Domain/IP: 99.11.123 PGP Key: 123 View First Name: Vulnerability Last Name: Reporter Email: abc@123.com Phone: 011899982753 Vulnerability Type: availability Explanation: The website keeps going down! Reason: This is a critical website that needs to stay up Domain/IP: Website.com PGP Key: 123 View	Part of automated testing suite listed below.

Logging and Monitoring for Warnings such as Failed Login Attempts

```
Failed login attempt - Username: haarismian1, IP address: 127.0.0.1 [16/Jul/2023 00:23:43] "POST /accounts/login/ HTTP/1.1" 200 7826 Not Found: /favicon.ico [16/Jul/2023 00:23:43] "GET /favicon.ico HTTP/1.1" 404 4036 Not Found: /favicon.ico [16/Jul/2023 00:23:43] "GET /favicon.ico HTTP/1.1" 404 4036
```

IP Address Blocked after 5 Failed Login Attempts



Automated Test Code Coverage Report – 87% Coverage (Considered Exemplary)

haarismian@Haariss-MacBook-Pro ncsc_cases_app % coverage report Name	Stmts	Miss	Cover
base_app/initpy	0	0	100%
base_app/settings.py	24	0	100%
base_app/tests.py	16	0	100%
base_app/urls.py	6	0	100%
base_app/views.py	67	32	52%
cases_service/initpy	0	0	100%
cases_service/admin.py	3	0	100%
cases_service/apps.py	4	0	100%
cases_service/migrations/0001_initial.py	6	0	100%
cases_service/migrations/0002_case.py	4	0	100%
cases_service/migrations/0003_remove_case_case_id.py	4	0	100%
cases_service/migrations/0004_delete_choice_delete_question.py	4	0	100%
cases_service/migrations/0005_case_user.py	6	0	100%
cases_service/migrations/initpy	0	0	100%
cases_service/models.py	9	0	100%
cases_service/tests.py	46	0	100%
cases_service/urls.py	5	0	100%
cases_service/views.py	60	12	80%
cvd_service/initpy	0	0	100%
cvd_service/admin.py	1	0	100%
cvd_service/apps.py	4	0	100%
cvd_service/migrations/0001_initial.py	5	0	100%
cvd_service/migrations/0002_remove_cvdreport_officer.py	4	0	100%
cvd_service/migrations/0003_alter_cvdreport_email.py	4	0	100%
cvd_service/migrations/0004_alter_cvdreport_email_alter_cvdreport_first_name_and_more.py	5	0	100%
cvd_service/migrations/initpy	0	0	100%
cvd_service/models.py	16	1	94%
cvd_service/tests.py	37	0	100%
cvd_service/urls.py	4	0	100%
cvd_service/views.py	42	6	86%
manage.py	12	2	83%
TOTAL	398	53	87%

Logging all API Calls

```
[16/Jul/2023 00:23:07] "GET / HTTP/1.1" 200 6243

[16/Jul/2023 00:23:10] "GET /cvd/create/ HTTP/1.1" 200 12110

[16/Jul/2023 00:23:12] "GET /cvd/create/ HTTP/1.1" 200 12110

[16/Jul/2023 00:23:13] "GET /cases/ HTTP/1.1" 200 5123

[16/Jul/2023 00:23:16] "GET /accounts/login/ HTTP/1.1" 200 7689

[16/Jul/2023 00:23:18] "POST /accounts/login/ HTTP/1.1" 302 0

[16/Jul/2023 00:23:18] "GET / HTTP/1.1" 200 6027
```

Successful XSS and SQL Injection Projection



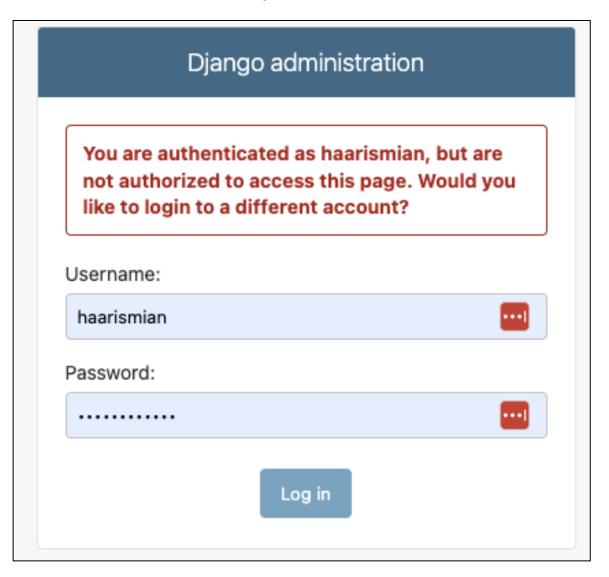
CSRF (Cross-Site Request Forgery) Protection in Codebase on all Forms

Example 1

```
<form
class="bg-white w-full rounded-lg shadow-lg p-8"
method="POST"
action="{% url 'cvd_service:create_cvd' %}"
>
{% csrf_token %}
```

Example 2

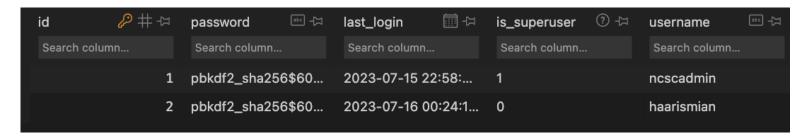
Role Based Authentication Example



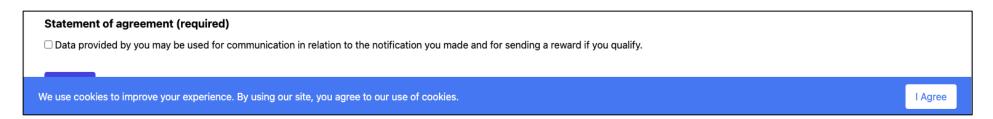
PEP8 Style Guide Linter

```
{
    "[python]": {
        "editor.defaultFormatter": "ms-python.autopep8"
     },
```

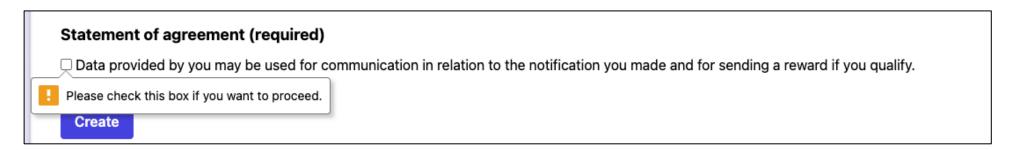
Example of Hashed and Secure Passwords



Example of Cookie Consent Popup



Example of Form Validation



Example Demonstrating Personally Identification Information

