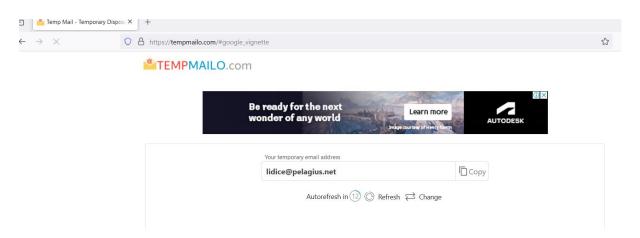
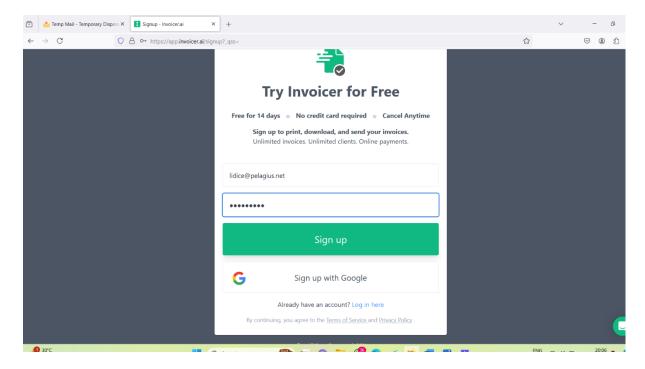
NAME: VAISHNAVI PARULEKAR	ROLL ID: 22203A0048
COURSE:CO (COMPUTER ENGINNERING)	Task Assignment: email rate-limiting feature on the website invoicer.ai
COMPANY: SECURER CYBER FUTURE	COLLEGE: VIDYALANKAR POLYTECHNIC

## Email rate-limiting feature on the website invoicer.ai

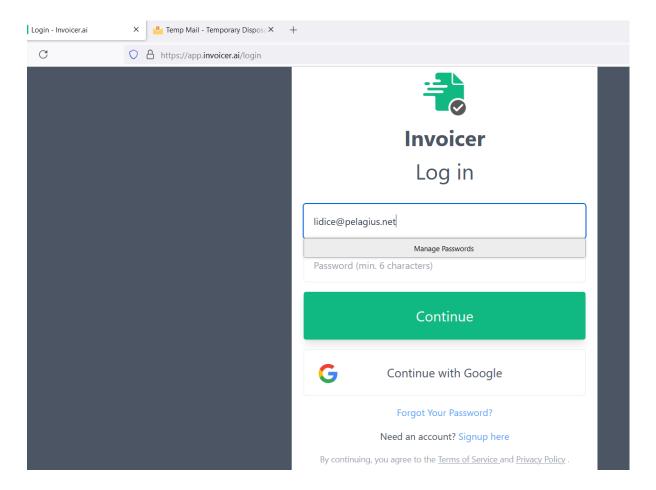
Detailed descriptions of the steps taken to perform the test. The results of testing, including any identified vulnerabilities.



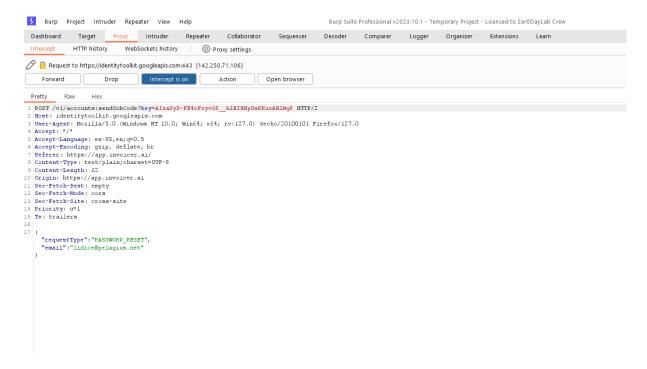
Took the email from the TEMPMAILO.com i.e <a href="mailto:lidice@pelagius.net">lidice@pelagius.net</a>



Did the sign up using the email and the password

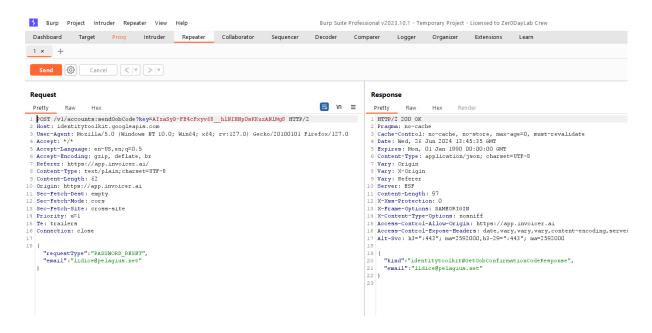


Type the email id and did forget password while the intercept is on.

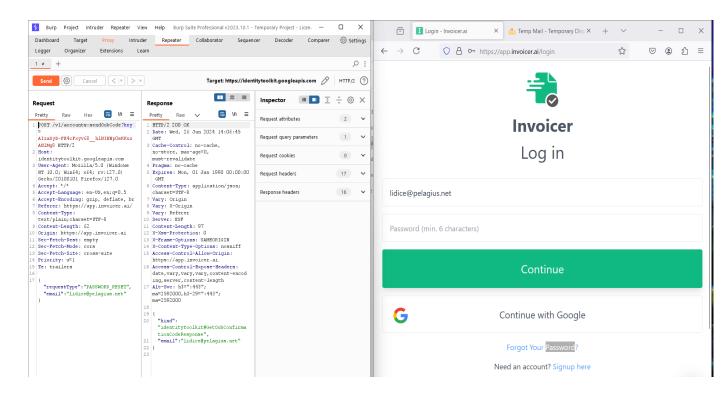


The traffic got catch in the intercept its showing "requestType": PASSWORD\_RESET", and

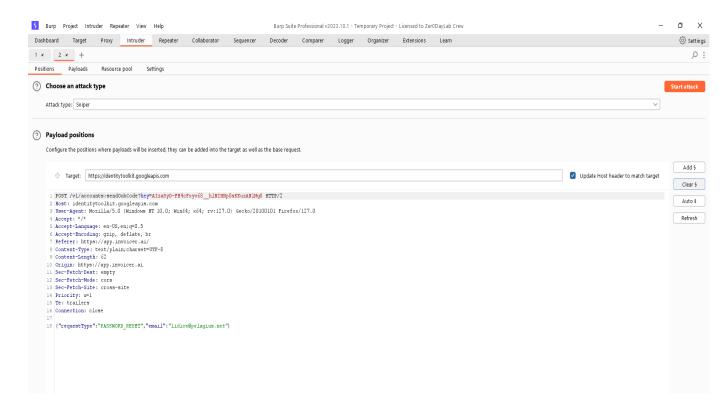
"email": lidice@pelagius.net



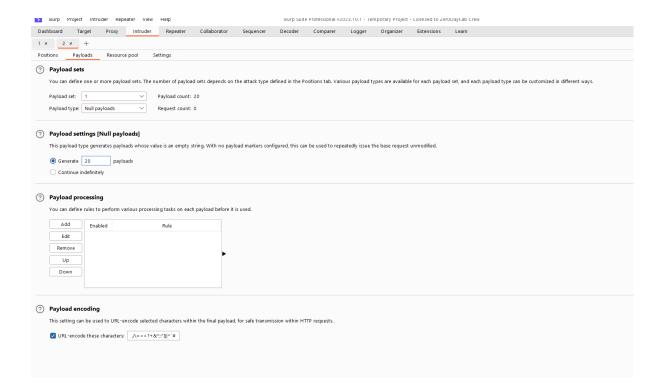
Repeater screenshot



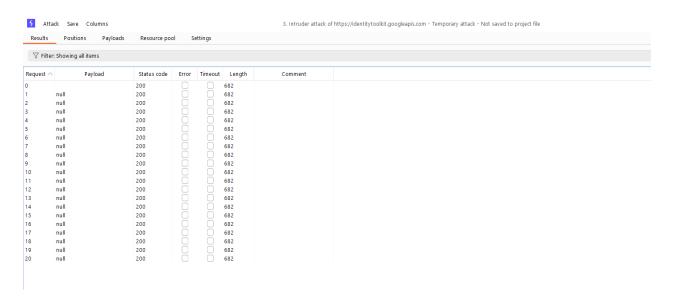
The repeater is showing the same mail id as in the Log in page



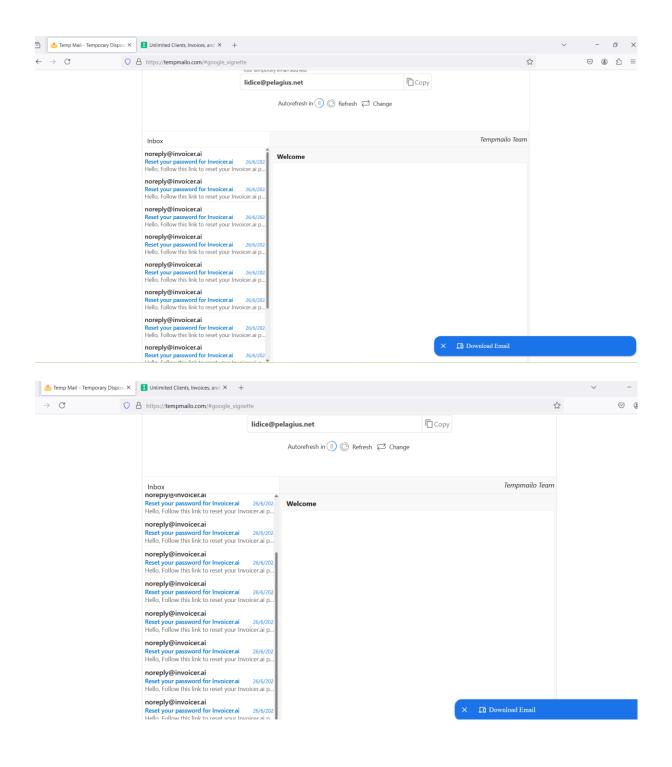
Sent to intruder to add null payloads

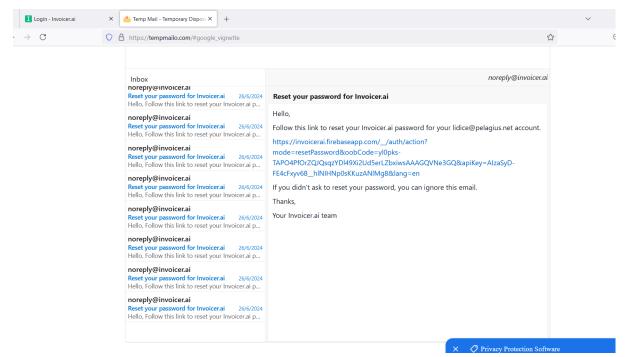


Addes Null payload to generate 20 payloads and start the attack



The 20 null payloads





The email from the inbox

The vulnerability is of receiving a huge number of reset password verification code in my email using the same Intruder attack with null payloads.

## Potential impacts of the identified issues.

The inbox is showing huge number of emails of reset password verification code it requires Implementation of proper rate limiting on password reset requests is essential to mitigate these risks, ensuring the security, reliability, and user satisfaction of the service.

If not controlled it may lead to various issues: -

Security Risks

User Experience

Operational Issues as the way the user operates

Reputation Damage for both trust and damage of brand

## Recommendations for mitigation if any vulnerabilities are found.

Limit the number of passwords reset requests a user can make within a specific timeframe.

Increase the time interval between subsequent reset requests after each attempt.

Implement CAPTCHA to verify that the requests are coming from humans and not automated bots, especially after a certain number of failed attempts.

Implement the I am not the robot for any automated tools are accessing or not

Educate users about phishing attacks and how to recognize legitimate communications from your service.

Encourage the use of strong, unique passwords and provide guidelines for creating them by using special symbols in it like @, #, \$, & etc.

Validate all inputs and outputs to prevent injection attacks and other common vulnerabilities.