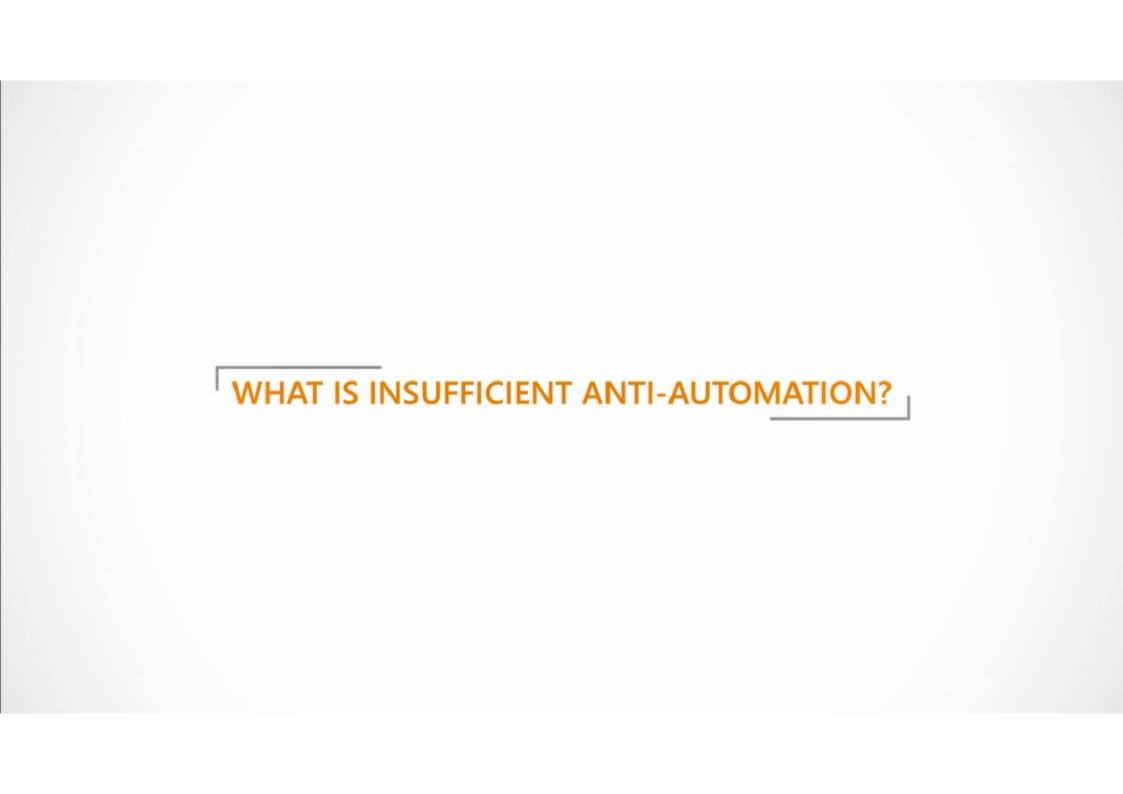
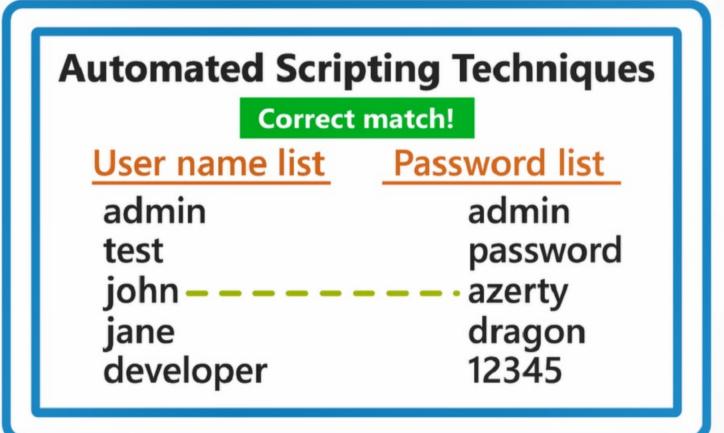
```
en:position:absolute:right:9px;text-align:initia
                                                   everflow:ellipsis:top:0;visibility:hidden;white-space:nowrap}html[dir=rtl] #fkbx-text{left;auto:right:9px}#fkbx
top:10px;position:absolute:right:29px}html
go-sub{color:#4285f4;font-size:16px;left:79px;position:relative;top:-20px;white-space:nowrap;width:0}#mngb{position:absolute;top:15px;-webkit-transition:opaci
                                                                                                   MA-p ONs ease-in-out; background: linear-gradient
7f).des-cla .mv-page .mv-focused~.mv-mask,
```

we will explain

what the vulnerability is, its causes and preventions and some potential hazards



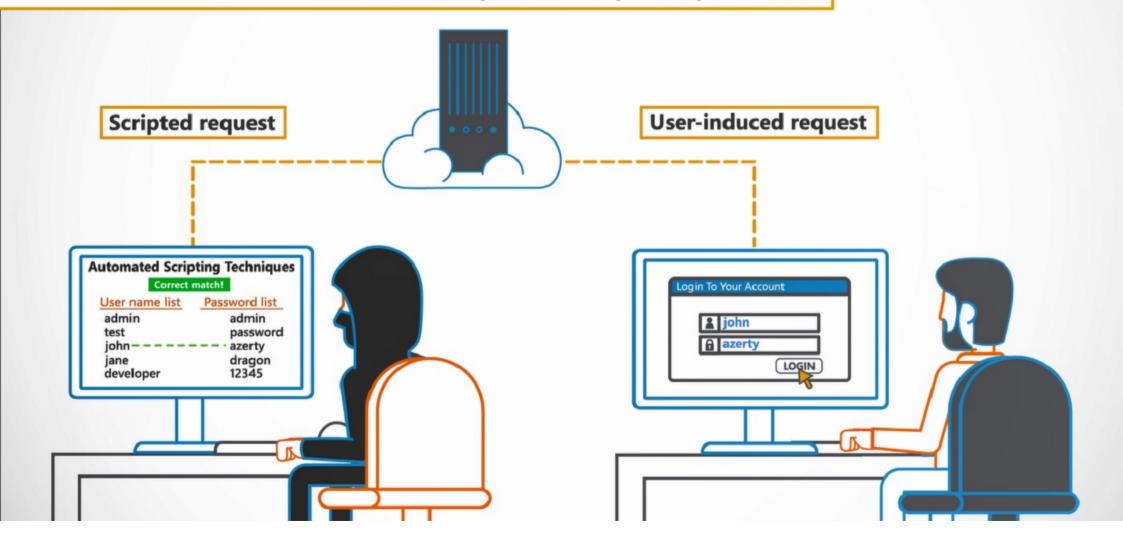
This vulnerability occurs when parts of the application, such as login forms, polls, or comment forms



can be triggered using automated scripting techniques. Login To Your Account 2 john azerty LOGIN



The vulnerability is caused by a lack of checks to determine whether actions are being executed by a human user. Without these checks the application cannot make a distinction between a user-induced request or a scripted request.

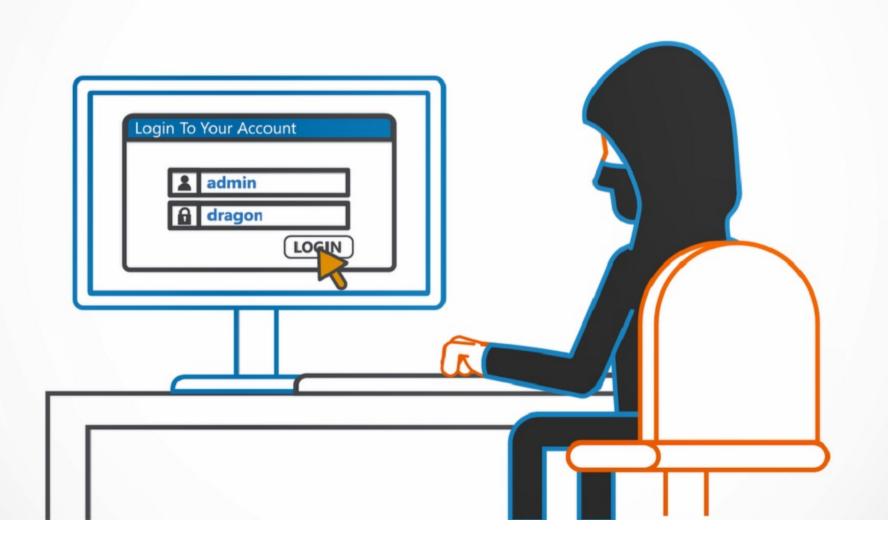


To understand

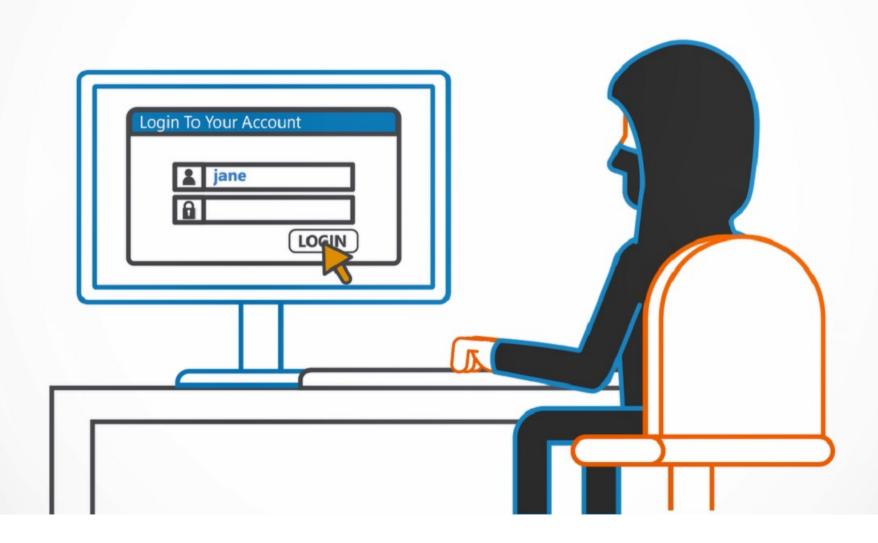
Insufficient Anti-Automation vulnerabilities, let's look at some examples

A website contains some functionality that is only visible for authenticated users

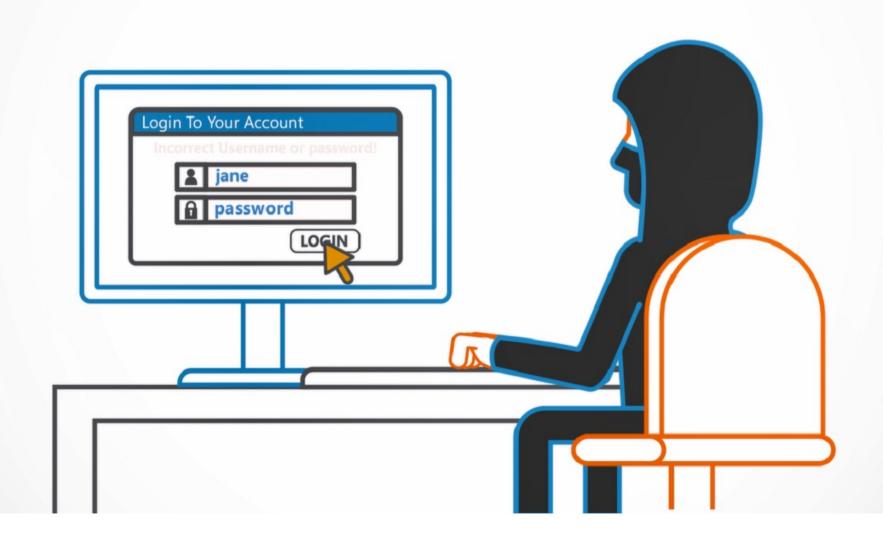
An attacker launches a brute force attack in an attempt to discover valid username/password combinations.



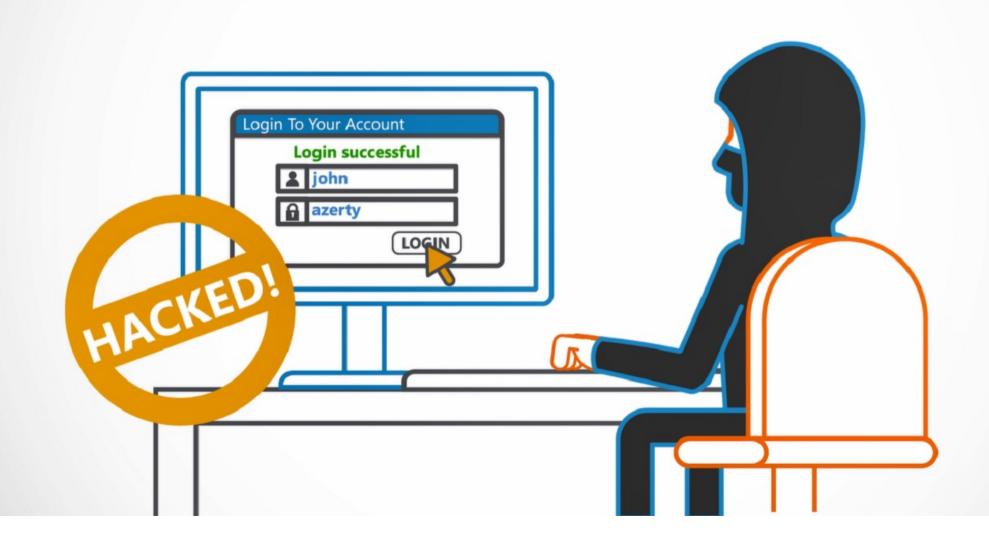
Because the application does not implement an account lockout mechanism



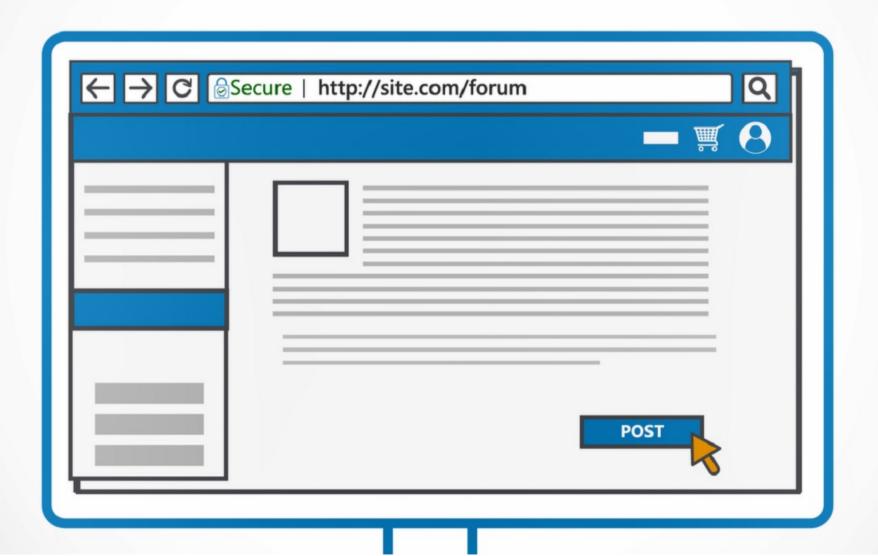
the attacker can keep trying passwords for any account name until one is successful.



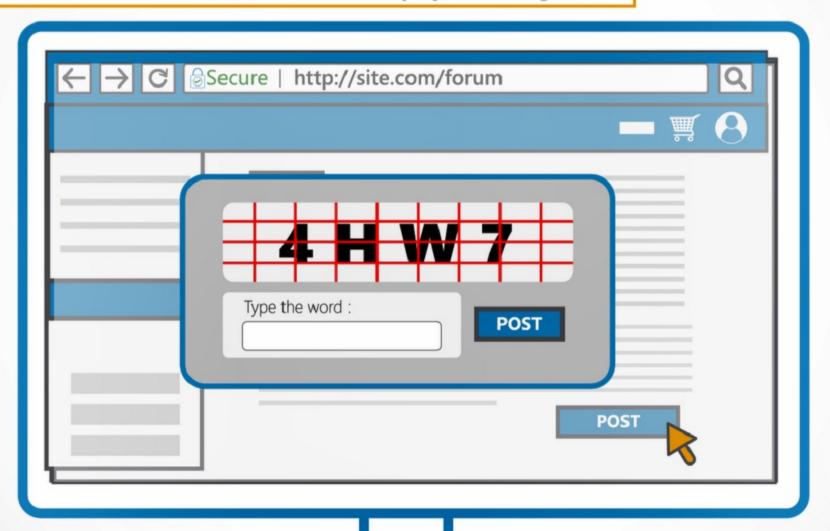
Then, the attacker is able to crack a user's credentials and can log in as that user.



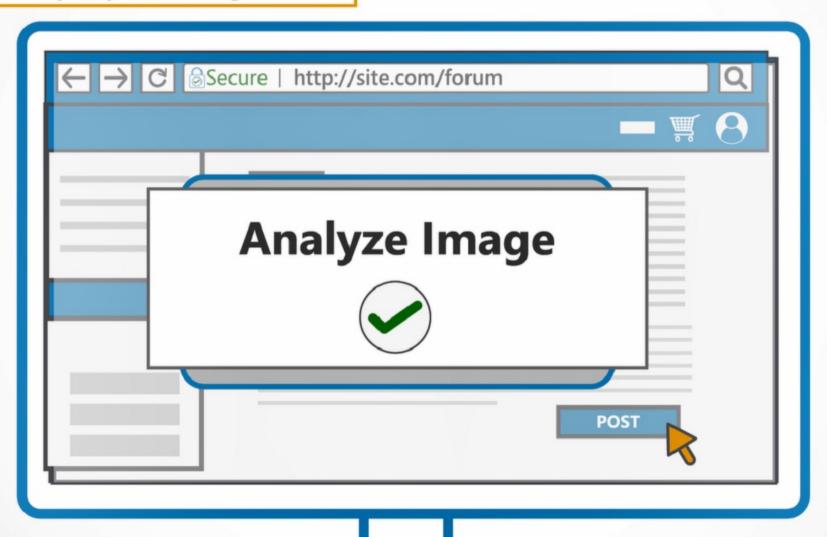
In another scenario, a web application allows users to post messages in a forum.



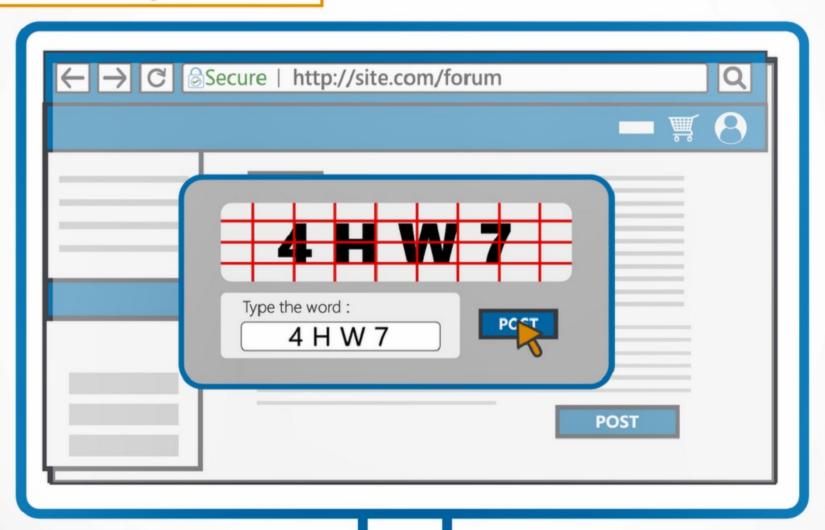
To avoid spam posted by automated bots, the application uses a CAPTCHA mechanism. The CAPTCHA's consist of characters displayed in images.



The implementation, however, can be bypassed because of the simplicity of the images.



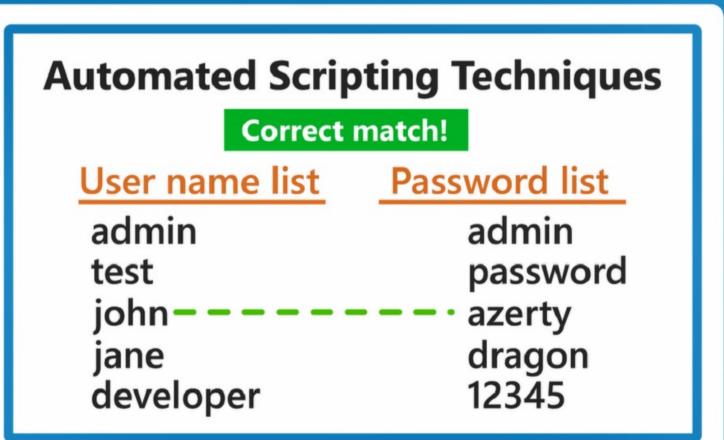
Using image analysis techniques, the words can be parsed from the images.



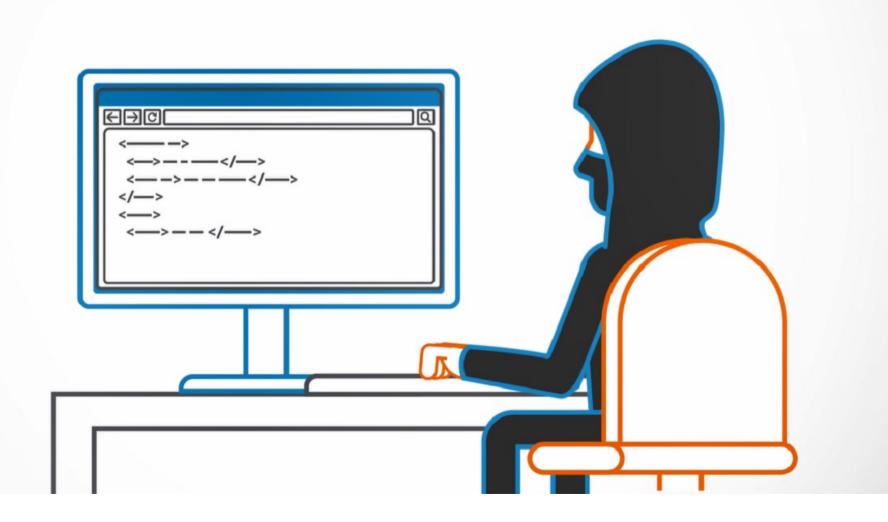


INSUFFICIENT ANTI-AUTOMATION CAN HAVE SIGNIFICANT IMPACTS

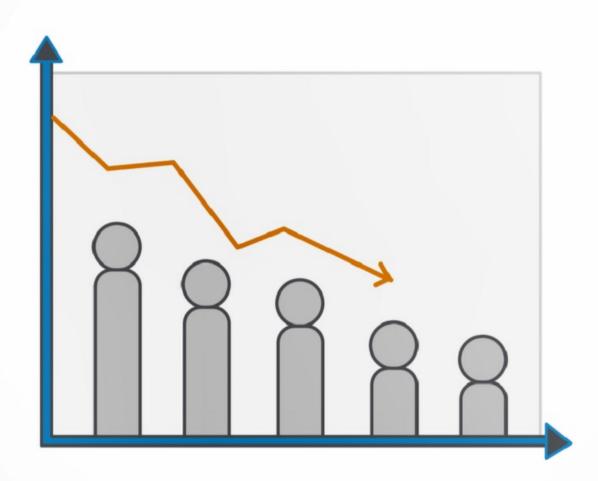
Brute force techniques could be used by automated scanners to try password guessing resulting in compromised accounts.



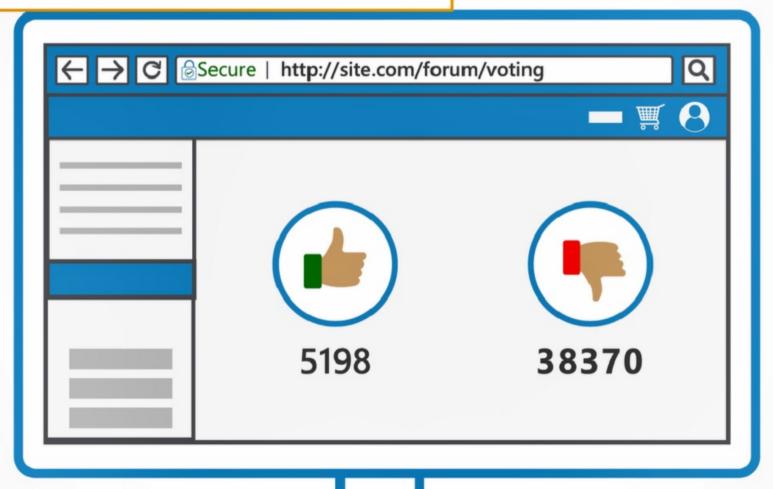
Hackers could write bots, repeat the same action for a number of times, such as registering new users or submitting spam in forums.



This could cause reputational damage and user frustration.



Online voting could also be rigged by automated scripts, causing fraudulent results.



To prevent Insufficient Anti-Automation

- Use techniques to verify human interaction, such as CAPTCHAs
- © CAPTCHAs could be a distorted text inside an image, a mathematical calculation, audio question or a logic puzzle
- ⑤ The number of consecutive requests from the same source could be limited to avoid brute forcing. Or alternatively, use account lockout

go-sub{color:#4285f4;font-size:16px;left:79px;position:relative;toc-20px;white partinowrap;width:0}#mngb{position:absolute;top:15px;-webkit-transition:opacamily:'Roboto'}body.hide ._rzc(display:none).des-cla #mov-tile{body.hide ._rzc(display:none).des-cla #mov-tile{body you have now completed this module, Insufficient Anti-Automation!

les-cla .mv-mask{border-radius:3px;box--notir-lks span(-webkit-margin-start:6px;color:#1155 3 38px).des-cla .mv-page .mv-mask(border-style:solid).defaultwww.securecodewarrior.com :140px •des-cla .mv_locfall back .mv-domain{bottom:24px;margin:0 7;