



# THE HIGHER STAKES OF ONLINE HIGHER ED: SHE SAID, HE SAID...

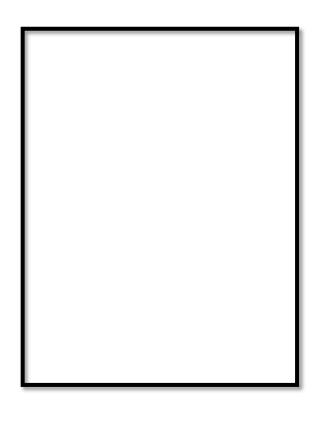
Christine Gee

Manager of Assessment Security & Authenticity



## Cutting-Edge Technologies of 1998

US Mail Audio & Video Tapes Satellite **Broadcast** S



E-mail

Video
Conferenci
ng
Closed-Circuit
Cable TV

World Wide Web

## Online Security Challenges

Social Media & Paper Mills

100,000+ Students

Over 140,000 Assessments a Month



Competency - Based

764 Courses

**Around** 40,000 **Assessment** Items Performanc e and Objective **Assessment** 

S

## Online Security Challenges

Number of test takers and lack of control

How they access content and

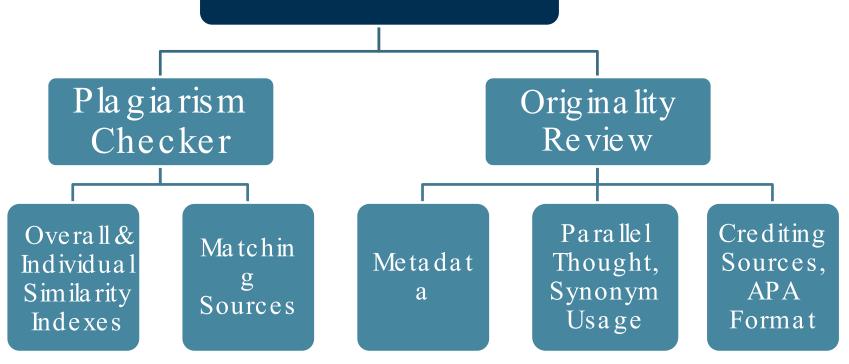
How they are sharing the content

Where are they sharing content

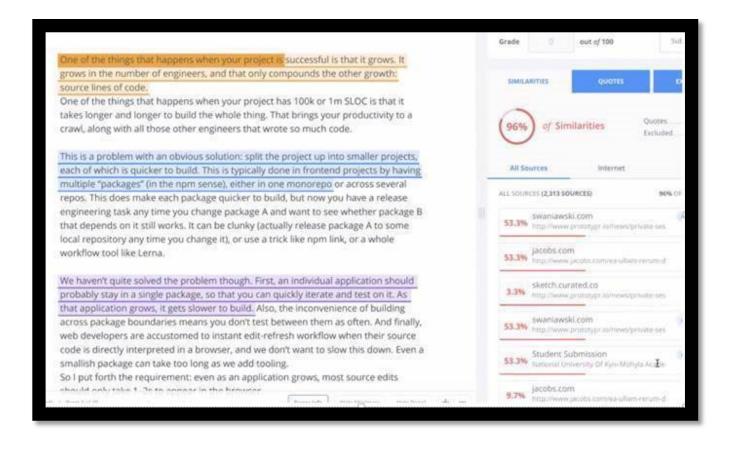




## Performance Assessments



## Originality Report



## Parallel Thought

The United States healthcare issue has been a main topic of discussion in the last few years. In 2010 President Obama released his healthcare reform called Patient Protection and Affordable Care Act (PPACA) aka Affordable Care Act (ACA) or also known as Obamacare. Obama's aim was to provide insurance coverage for people who didn't have access to healthcare, the uninsured and those who needed a cheaper means to have coverage. The goal was to provide quality healthcare for all American people. The United States healthcare system is a regulated heal care market system that has private insurance companies and government funded health programs that range from Medicare, Medicaid, and Veterans Health Program (Cherry & Jacob, 2014). Though Obama's ideas appealed to the uninsured American people, many families still find themselves uninsured or paying extremely high premiums and deductibles.

In the United States, the available of affordable healthcare is an issue for many. In 2010, President Barak Obama aimed to lessen this costly burden by signing into law a health reform called the Patient Protection and Affordable Care Act (PPACA), otherwise known as the Affordable Care Act (ACA). The goal of this act was to provide insurance coverage for people of America who were uninsured while regulating the hastily rising costs of healthcare. By doing this, he aimed to improve the quality of healthcare for all Americans. The health care system utilized in the United States is a regulated healthcare market system which includes private insurance companies and government funded health programs such as Medicare, Medicaid, and Veterans Health Program (Cherry & Jacob, 2014). While President Obama sought to reform the health care crisis and debt, many families in the United States are still find themselves uninsured. In addition, many families who have nealth care coverage, find themselves uninsured, with premium and deductibles that are too costly.

## **Objective Assessments**

Multiple Choice, High Stakes

Online Proctoring (OLP)



Recorded Sessions Secret Shopping

## Secret Shopping

### **Behaviors**

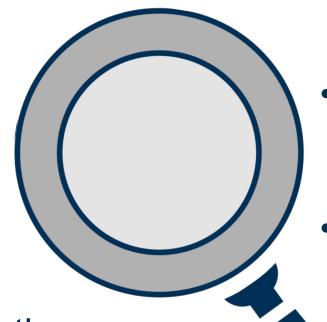
- Eye movement
- Cellphone use
- Notes

### Security Scorecard

- ID verification
- Proctor attention
- End oftest procedures



## Investigations



Review students' performance assessments

Inspect students' OLP videos

OLP violations, egregious Authenticity violations, more than one warning, anonymous tips

## Student Support



\*On all originality concerns contact is made to the Mentor to support remediation.

### Behaviors

- New Orientation Academic Authenticity
   Module
- Outreach within 24 hours of originality violation
  - Call, screenshare
- The Student Conduct Office contacts the student if there is an

### Web Patrol

DMCAs for WGU copyrighted material

Search
online for
posts,
purchases,
and/or
solicitations

Reverse
Plagiarism
reports for
purchased
papers

## Web Patrol Sites

Facebook Groups Twitter Posts, Reddit

Track
Over 600
Sites

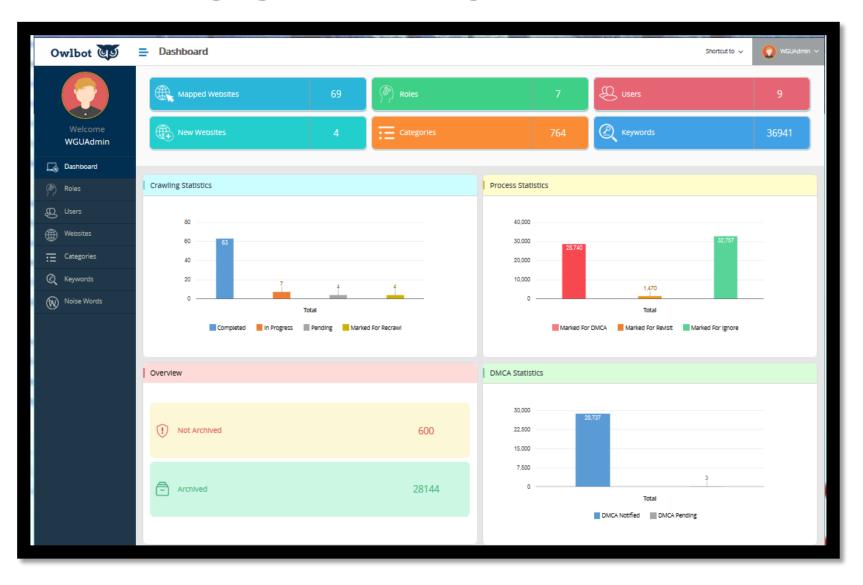
## Owlbot, the WGU WebCrawler

Web Patrol searching for assessment items and responses

Collaborated to develop a webcrawler

WGU
Owlbot
improved
efficiency in
searching

## WGU WEBCRAWLER



Keyword Text: "No more than a combined total of 30% of a submission can be directly quoted or closely paraphrased" Select Website: homeworkmarket.com Marked for DMCA (50) For Revisit (3) Ignore This (2) Weblinks https://www.homeworkmarket.com/sites/default/files/gx/15/04/08/04/cyberlaw\_... https://www.homeworkmarket.com/content/community-nurssing ")}}}) //--> window.fbAsyncinit = function() { FB.init({ apold : '237061906357062' // Apo ID channelUri : '//www.homeworkmarket.com/channel.html' // Chan ript'); e.async = true; e.src = document.location.protocol + '//connect.facebook.net/en\_US/all.|s https://www.homeworkmarket.com/node/7895621 ");\$("#awesome-message"),fadein("slow")}}}) //-> window.fbAsyncinit = function() { FB.init({ appid : '237061906357062', // App ID channelUrl : '// www.homeworkmarket.com/channel.html", // Channel File status... up to the paid amount window.fbAsyncinit = function() { FB.init({ appid: "237061906357 062", status: true, cookie: true, xfbml: true, channelUri: "https:\/\/www.homeworkmarket.com\/fb\_social\/channel https://www.homeworkmarket.com/node/10865641

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62", status: true, cookie: true, xfbmi: true, channelUri: "https:///www.homeworkmarket.com/vfb\_social//channel

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## The Web Patrol Team numbers from September 1, 2017 to August 31, 2018

Approximately, how many DMCAs have been completed?

a. 150

b. 200

c. 300

d. Over 400

## The Web Patrol Team numbers from September 1, 2017 to August 31, 2018

Approximately, how many URLs were taken down from the 436 DMCAs?

a. 436

b. 932

c. 1,352

d. 14,763

## Since 2009, how many online proctored assessments have been completed by WGU students?

- a. Around 1,250,000
- b. Around 1,500,000
- c. Around 1,750,000
- d. Over 2,000,000

## What type of institution is the highest OLP user in the world?

- a. Abusiness

b. Aschool It's WGU!

## Discovery Challenges in New Media

- Keywords searches are becoming less effective due to social media growth and adoption
- Privacy of website/owner information growing exponentially further hampering takedown efforts
- Typical search methodolgies only uncover a small percentage of potential infringed content
- Where are they sharing content





## Online Protection Strategies







### ONLINE UNIVERSITIES

THREAT MITIGATION STRATEGIES

01

### DONT RELY ON KEYWORD SEARCHES

STEP

THERE ARE OVER TWO BILLION SOCIAL MEDIA USERS (AND GROWING) THAT ARE NOT WELL REPRESENTED IN KEYWORD SEARCHES. THEREFORE, RELYING ON PRIOR SUCCESSFUL INFRINGEMENT DETECTION METHODS MAY LEAVE A LARGE NUMBER OF THREATS UNDISCOVERED, ESPECIALLY IN PROGRAMS WITH A LARGE NUMBER OF CANDIDATES AND EXAM TYPES SUCH AS ONLINE UNIVERSITIES.





### ONLINE UNIVERSITIES

THREAT MITIGATION STRATEGIES

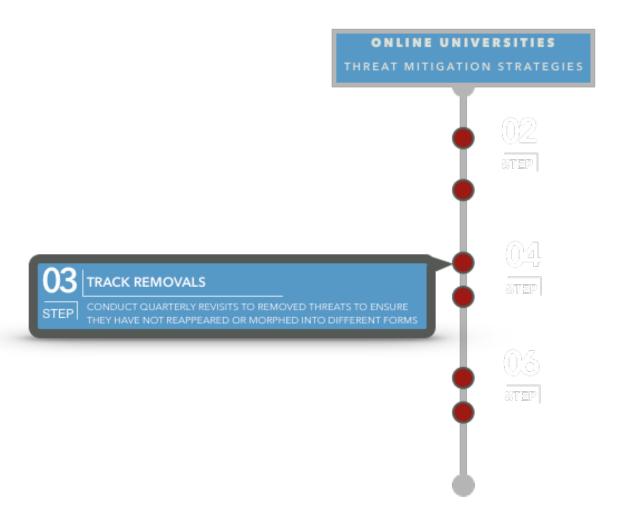


### **USE MULTIPLE SEARCH METHODOLGIES**

SEARCHES ENGINES SUCH AS GOOGLE HAVE ONLINY INDEXED ROUGHLY 5-10 PERCENT OF THE INTERNET AND ARE NOT WELL UTILIZED TO SEARCH SOCIAL MEDIA. SEARCH ENGINE INDEXING MOVES AT A MUCH SLOWER PACE THAN SOCIAL MEDIA

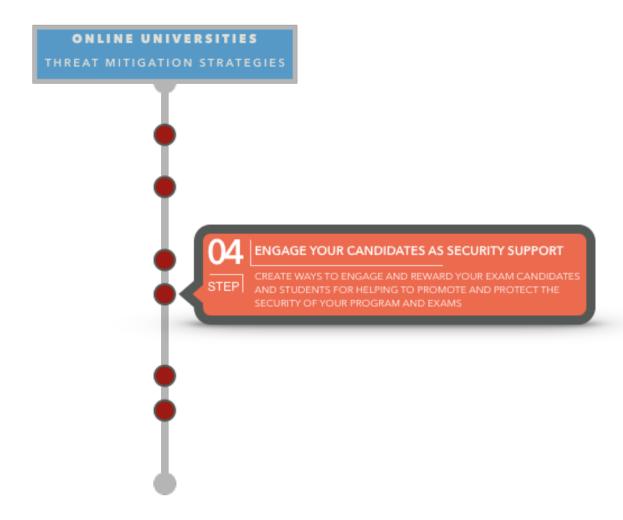












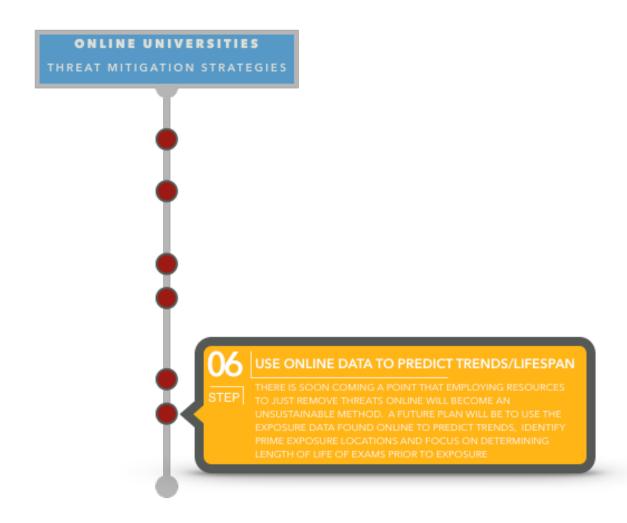




## ONLINE UNIVERSITIES THREAT MITIGATION STRATEGIES EMPLOY THE LATEST CUTTING EDGE TOOLS STEP REPLACE CURRENT PROCESSES AND TOOLS WITH NEW ONES TECHNICAL ONLINE LANDSCAPE











#### ONLINE UNIVERSITIES

THREAT MITIGATION STRATEGIES

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03

### TRACK REMOVALS

STEP

CONDUCT QUARTERLY REVISITS TO REMOVED THREATS TO ENSURE THEY HAVE NOT REAPPEARED OR MORPHED INTO DIFFERENT FORM

05

#### EMPLOY THE LATEST CUTTING EDGE TOOLS

STEP

AS IT'S REASONABLY POSSIBLE WITHIN YOUR ORGANIZATION REPLACE CURRENT PROCESSES AND TOOLS WITH NEW ONES THAT BETTER ADDRESS THE FAST MOVING AND HIGHLY TECHNICAL ONLINE LANDSCAPE 02

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04

#### ENGAGE YOUR CANDIDATES AS SECURITY SUPPORT

STEP

CREATE WAYS TO ENGAGE AND REWARD YOUR EXAM CANDIDATE: AND STUDENTS FOR HELPING TO PROMOTE AND PROTECT THE SECURITY OF YOUR PROGRAM AND EXAMS

06

### USE ONLINE DATA TO PREDICT TRENDS/LIFESPAN

STEP

THERE IS SOON COMING A POINT THAT EMPLOYING RESOURCES TO JUST REMOVE THREATS ONLINE WILL BECOME AN UNSUSTAINABLE METHOD. A FUTURE PLAN WILL BE TO USE THE EXPOSURE DATA FOUND ONLINE TO PREDICT TRENDS, IDENTIFY PRIME EXPOSURE LOCATIONS AND FOCUS ON DETERMINING.



