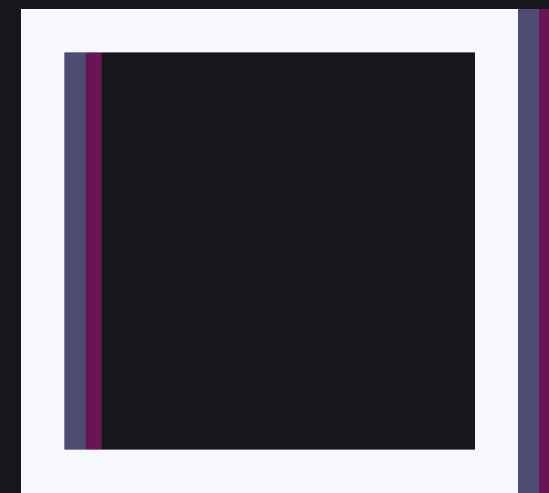
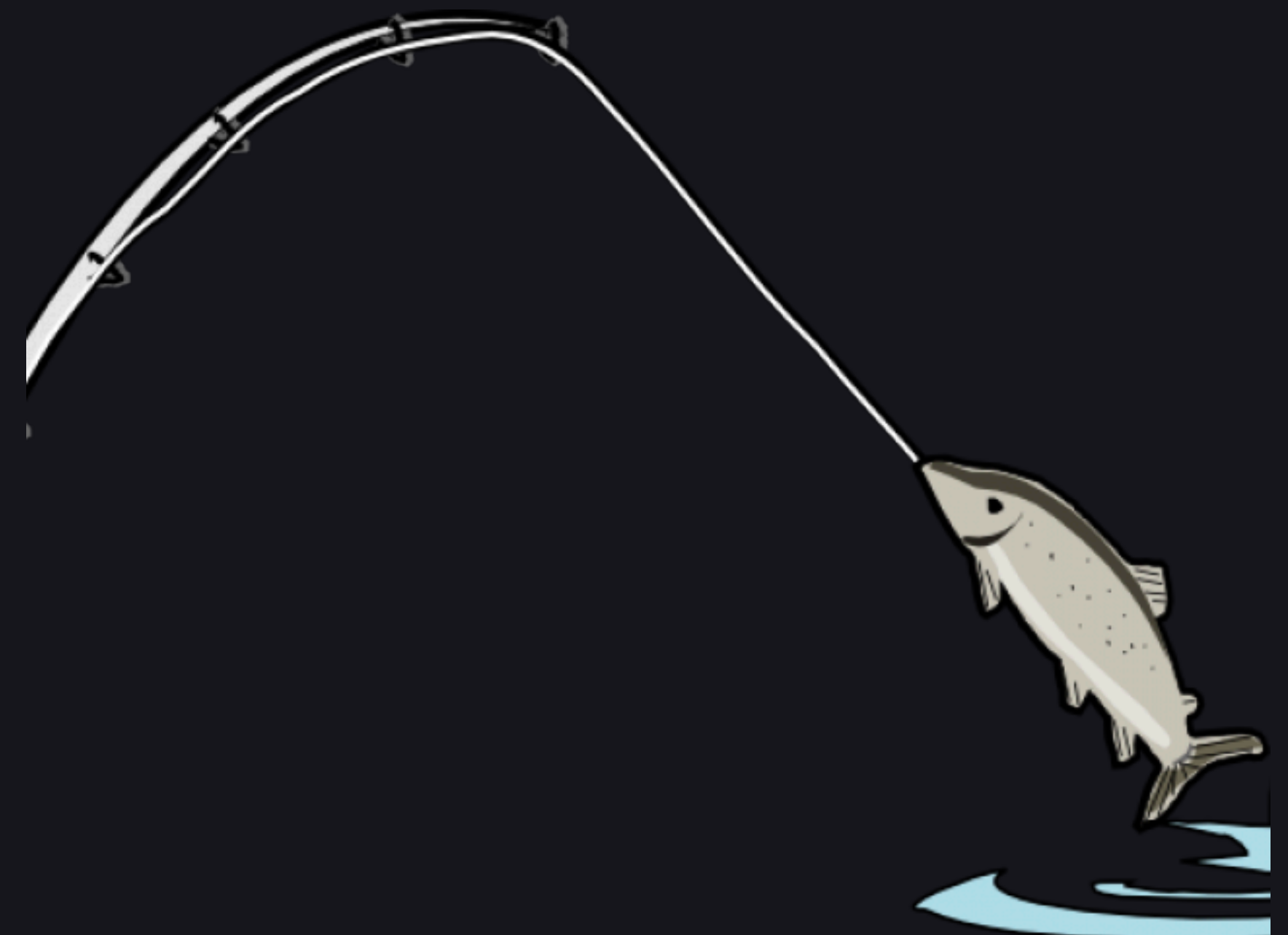


PHISH GAME



A phishing defense minigame, where the players must detect potential scams or emails designed to steal information.



By: Tanjeed Alam, Ruthvick Bandaru, Derrick Ma, Artemis Zhang

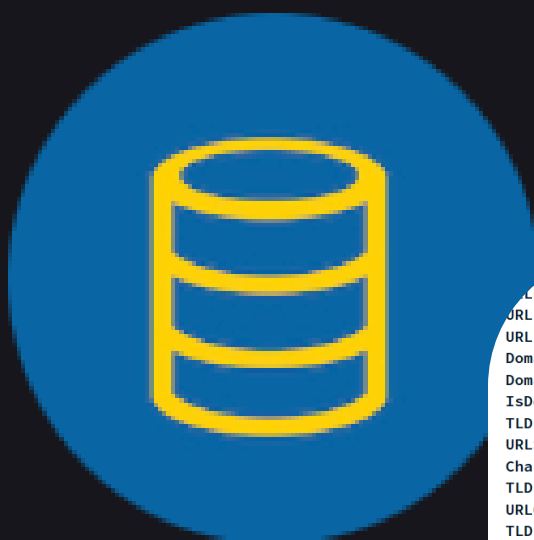
TECHNOLOGIES

PhishTank

```
{ "_id": ObjectId('67a7bf8b6f18b35d9cb24960')
  "phish_id": 8966781
  "url": "http://69651548.xyz/"
  "phish_detail_url": "http://www.phishtank.com/phish_detail.php?phish_id=8966781"
  "submission_time": 2025-02-08T17:03:52.000+00:00
  "verified": "yes"
  "verification_time": 2025-02-08T17:12:38.000+00:00
  "online": "yes"
  "target": "Allegro"
}
```

kaggle

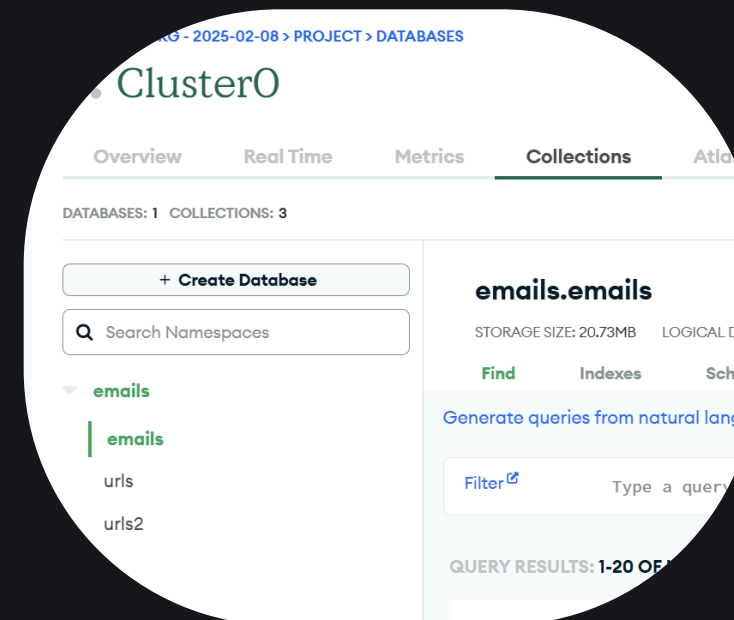
```
{ "_id": ObjectId('67a7c0ef6f18b35d9cb7b00c')
  "Email Text": "re : 6 . 1100 , disc : uniformitarianism , re : 1086 ; sex / lang dick..."
  "Email Type": "Safe Email"
}
```



```
{ "_id": ObjectId('67a7bffc6f18b35d9cb7b00c')
  "FILENAME": "521848.txt"
  "URL": "https://www.southbankmosaics.com"
  "URLLength": 31
  "Domain": "www.southbankmosaics.com"
  "DomainLength": 24
  "IsDomainIP": 0
  "TLD": ".com"
  "URLSimilarityIndex": 100
  "CharContinuationRate": 1
  "TLDLegitimateProb": 0.5229071
  "URLCharProb": 0.061933179
  "TLDLength": 3
  "NoOfSubDomain": 1
  "HasObfuscation": 0
  "NoOfObfuscatedChar": 0
  "ObfuscationRatio": 0
  "LettersInURL": 18
}
```



MongoDB Atlas Cluster



OpenAI API

to Generate Email

Data in Real-Time

```
"topic": "Server Status Update",
"sender_persona": "Che",
"subject": "Server is Operational Again",
"greeting": "Hello RPM-List members,",
"body": "I hope this message finds you well.",
"call_to_action": "Best regards, and let me",
"phish_or_not": "\"Not Phish\"",
"lives_lost_if_wrong": 2,
"explanation_if_wrong": "The email you just"
```

STATISTICS



83%

of UK businesses suffered a phishing attack in 2022

26%

of organizations have a response plan for cyber incidents

\$4.9 million

Average amount to recover from a phishing attack

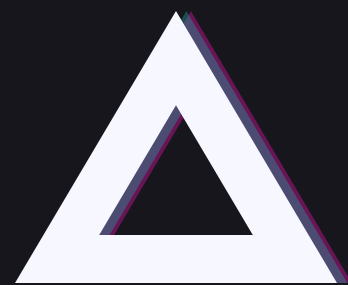
LARGE SCALE ATTACKS

1. *A quarter of phishing emails bypassed Office 365 security in 2019*
2. *Austrian aerospace parts maker FACC lost over 42 million euros from a phishing scam in 2016*
3. *Pepco lost 15.5 million euros in phishing in 2024*
4. *Hackers using fake apple verification emails stole over 100TB of data from Sony Pictures in 2014*

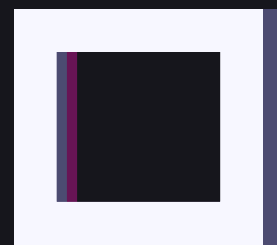
FEATURES



Graphics emulate an email inbox adding a realistic edge to the game.



Emails crafted by artificial intelligence help users spot malicious emails generated by ChatGPT.



3 different difficulties help build skills in differentiating between a phishing email and a normal email.

PHISHGAME		Search
<div>Phish Noob</div> <div>Phish Disciple</div> <div>Server Status Update</div> <div>Enron Investor Conference</div> <div>"Urgent Account Verification</div> <div>ENA Group Expenses Review</div> <div>Pricing and Transport Rates</div> <div>Daily Risk-Adjusted Return</div> <div>Finding More Channels</div> <div>"Exclusive Offer Just for</div>	Server is Operational Again	
	Latest Updates from the Houston Investor Conference	
	" 🚨 Immediate Action Required: Verify Your Account Now! 🚨 "	
	ENA Group Expenses Guys, Notes from the Morning Meeting	
	Competitive Transport Pricing for Meter 6461	
	Daily Updates on New Risk-Return Graphs	
	Exploring RSS Feed Options	
	"Unlock the Secret to Eternal Youth! 🌟 "	

BEFORE



AFTER



26 JUNE 2024

Q&A