

Critical issue

Covid-19 and its impact on financial world

"Financial Services Digital Fraud Attempts in Canada Rise 218%"

"Globally, suspected financial services digital fraud attempts increased by 149%."

Fraud

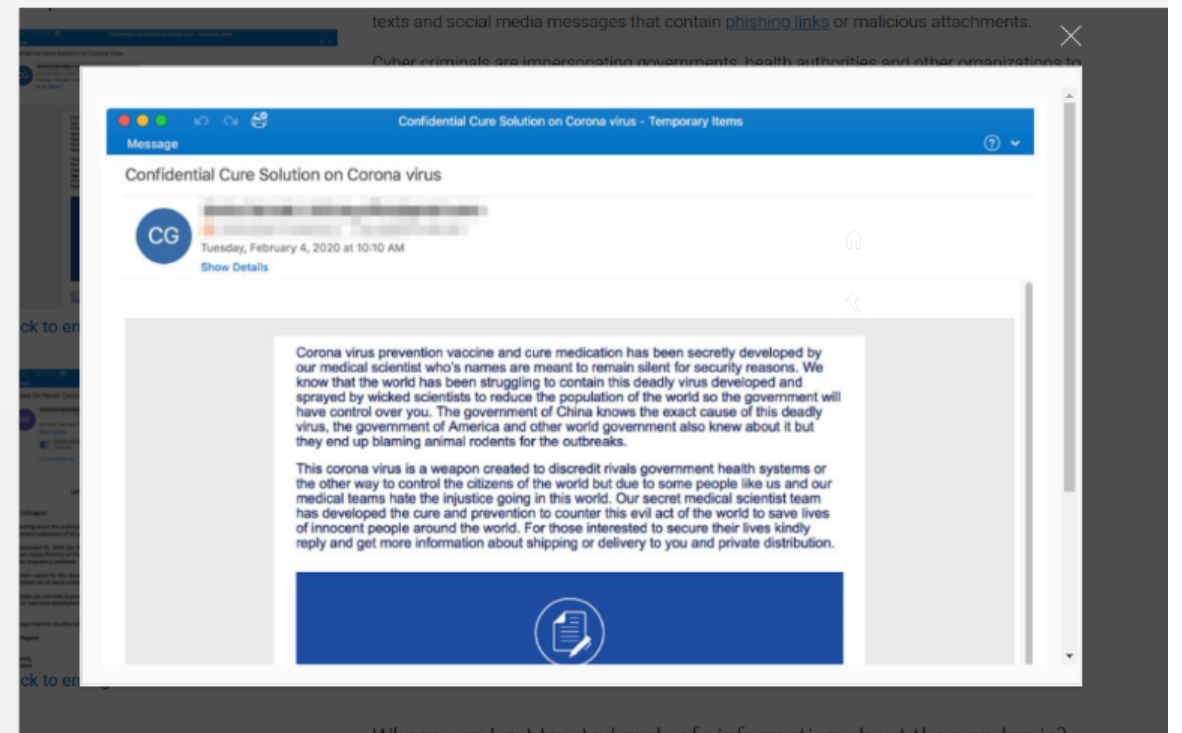
Awareness

Protection



Fraud

Fraudulent actors are able to replicate company colors, icons, & formatting, all in an effort to trick the user into accessing redirected sites and/or provide user information



CUSTOMERS

Current Guidelines provided by big banks

"Be careful about clicking links or attachments in "suspicious" emails, texts or social media messages."

"Attackers can falsify the sender information in messages. Make sure the sender's email address has a valid user name and domain name."

Lets provide a solution for users to definitively prove the legitimacy of the email



Protection

Lets looks at sample "real domains used by banks"

Which are real? Which are fake?

<e.cibcinfo.ca>

<cibcalerts.ca>

<notifycibc.ca>

<etouches.ca>

<scotiabank.com>

<scotiarewards.com>

<scotiabanktransfer.com>

<scotianotification.com>



Our Idea

Ideas we wanted to incorporate

- Solve an issue that affects everyday individuals.
- Leverage technology to promote online safety.
- Promote internet safety and further promote trust in financial institutions.
- QR technology has now gained in popularity in North American Markets.



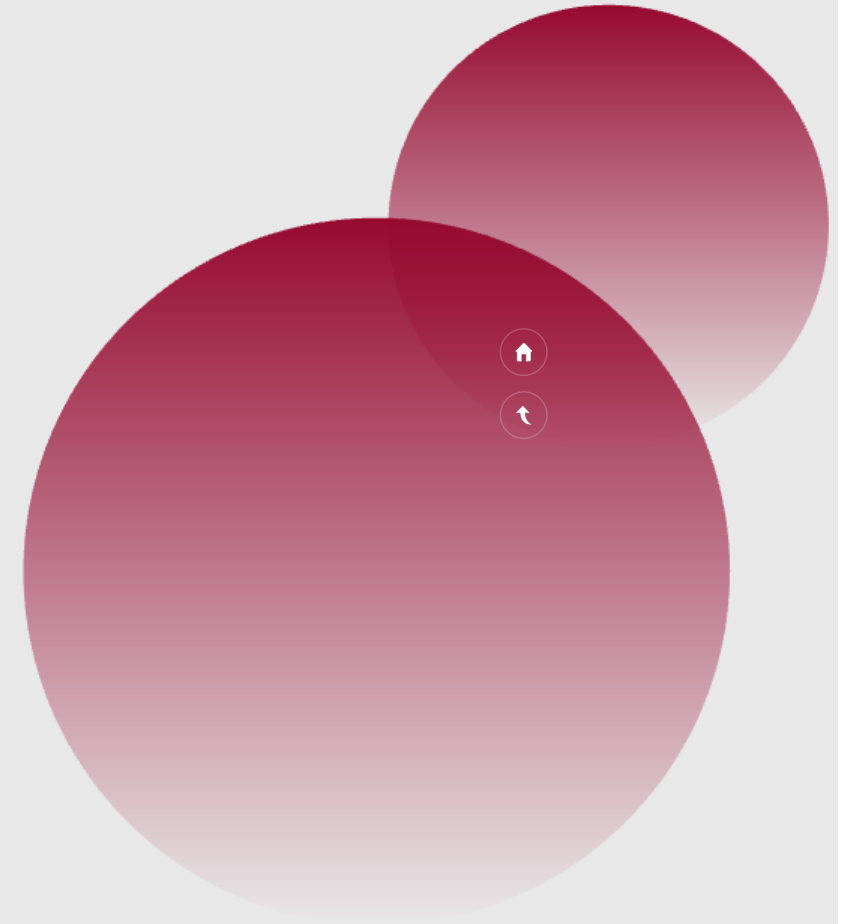
Our Solution

Implemented a two part project

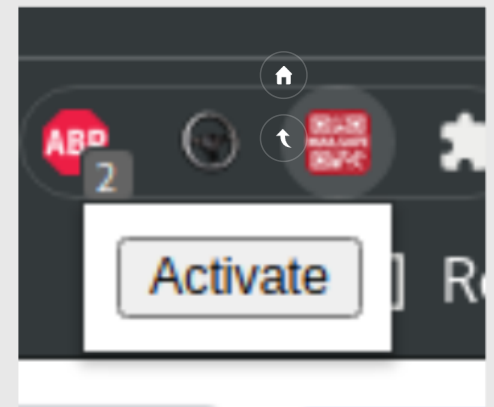
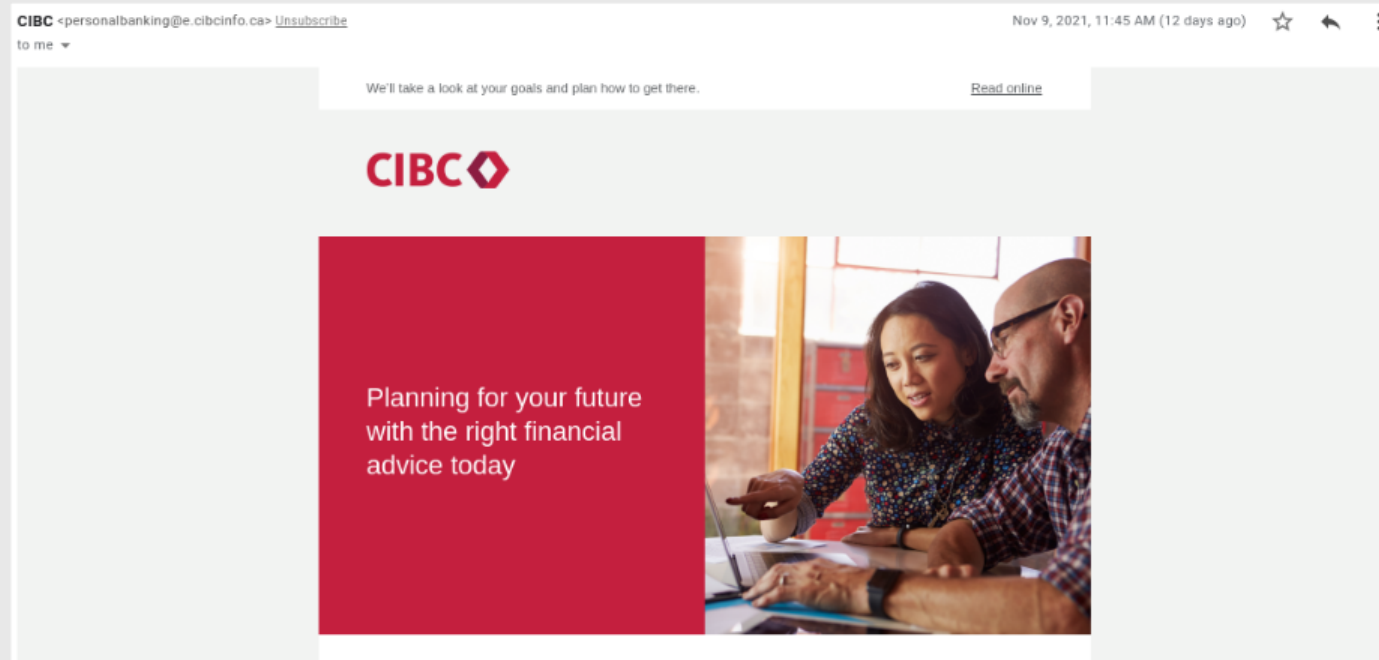
Within a gmail page

Chrome Web Extension:

- Convert the senders email address to a qr code format

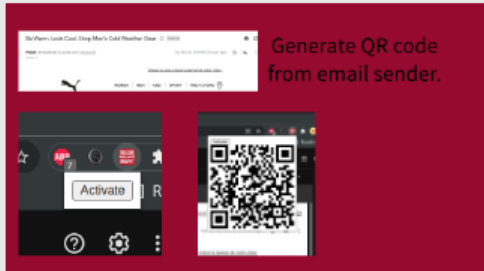


OUR Product





Web E

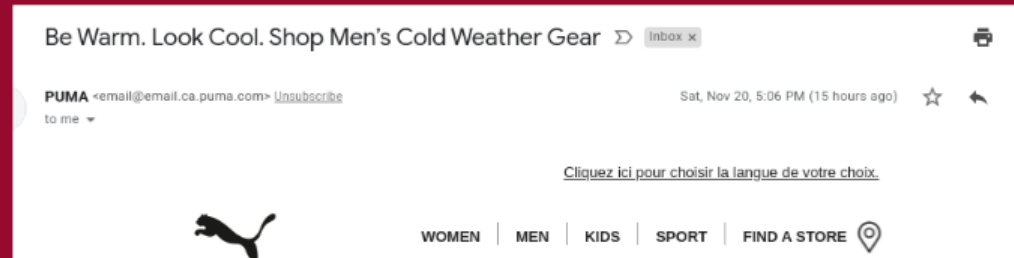


Minimal Information Collection

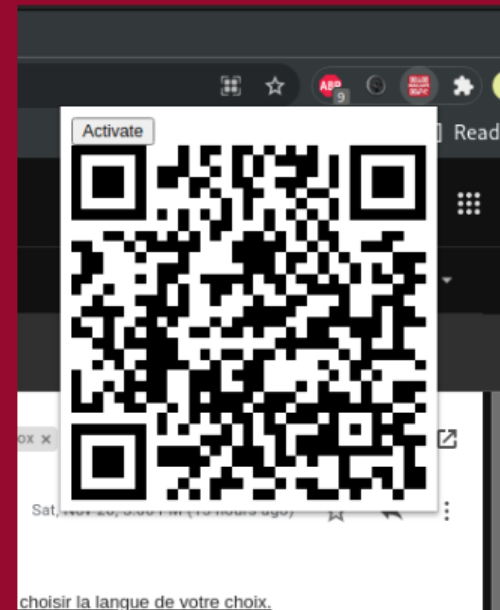
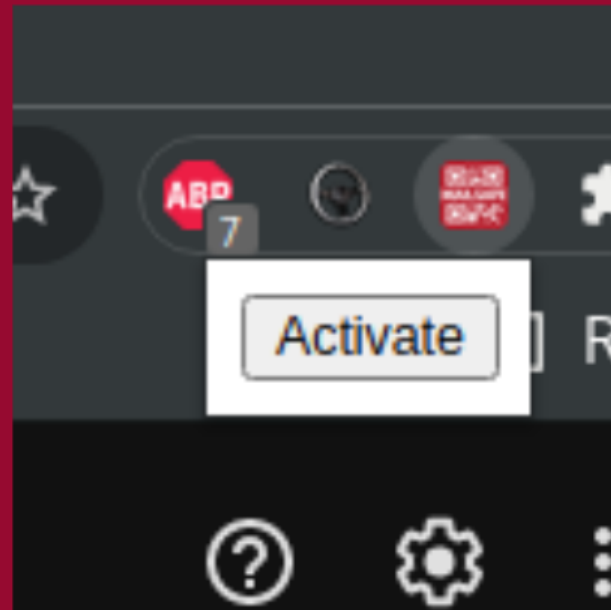
```
function mod_fopen() {
    // the file path from 00000000 to 00000000, except the origin
    const mail_serverlink = "http://get-mail-serverlink.org/";
    // const domain = document.getElementsByTagName("a").outerHTML; // string representation
}
```

Only grabbing
Senders email
address





Generate QR code
from email sender.

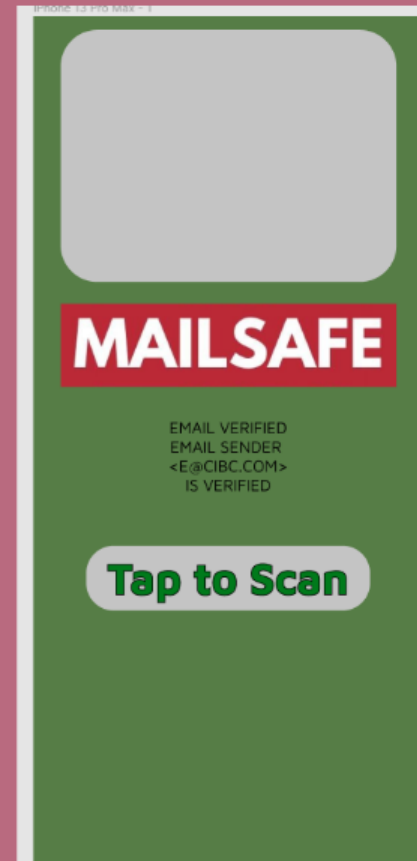


Minimal Information Collection

```
function modifyDOM() {  
  //You can play with your DOM here or check URL against your regex  
  const emailparentclass = document.getElementsByClassName("go");           // string representation  
  // const qseemail = document.querySelectorAll(".go").outerText;
```

Only grabbing
Senders email
address





Scan with
mobile
application



Mobile Application

Mailsafe:
A simple mobile
application

QR Code
Scanner

Phishing
& Mitigation

Auto Update



QR Code Scanner



- Simple lightweight application.
- Checks senders email address against locally stored list of verified email domains on the device.

Phishing Recommendation

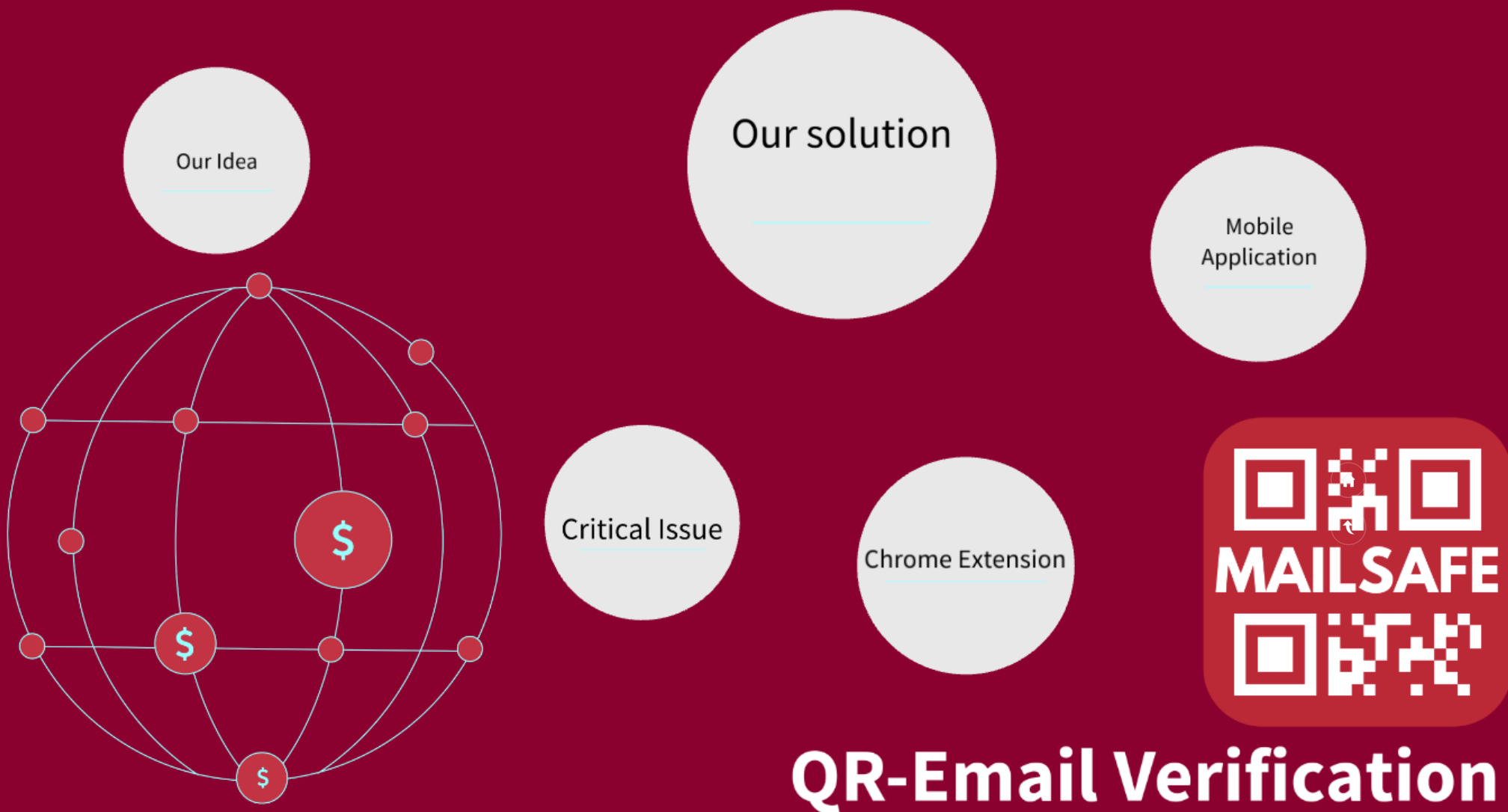


Auto Update

Companies can leverage the apps ability to pull updates from web server

Auto update list of verified email domains dynamically.





QR-Email Verification

Hack Western 2021

