<u>Project Design Phase-I</u> <u>Problem – Solution Fit Template</u>

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Team ID	PNT2022TMID52622
Project Name	Project - Web Phishing Detection
Maximum Marks	2 Marks

Problem – Solution Fit Template:

The Problem-Solution Fit simply means that you have found a problem with your customer and that the solution you have realized for it actually solves the customer's problem. It helps entrepreneurs, marketers and corporate innovators identify behavioral patterns and recognize what would work and why

Purpose:

- → Solve complex problems in a way that fits the state of your customers.
- → Succeed faster and increase your solution adoption by tapping into existing mediums and channels of behavior.
- → Sharpen your communication and marketing strategy with the right triggers and messaging.
- Increase touch-points with your company by finding the right problem-behavior fit and building trust by solving frequent annoyances, or urgent or costly problems.
- → Understand the existing situation in order to improve it for your target group.

Template:

Problem-Solution fit canvas 2.0

Purpose / Vision To detect phishing sites.

6. CUSTOMER CONSTRAINTS

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1. CUSTOMER SEGMENT(S) i.e. working parents of 0-5 y.o. kids Who is your customer

Everyone who uses Internet will be our target. This can include:

 Individual Company Family

Define CS, fit into CC

The customers can be of any age group and can belong to any nationality. This application will be used by anyone who surfs

Government

of solutions? i.e. spending power, budget, no cash, network connection, available devices. What constraints prevent your customers from taking action or limit their choices

become easier. No comprehensive blacklist can ensure a perfect most common technique used is the blacklist-based method. It Novel phishing approaches suffer low detection accuracy. The has become inefficient since registering a new domain has up-to-date database.

5. AVAILABLE SOLUTIONS

AS

The solutions that are available detect phishing sites:

- by using a blacklist and whitelist
- by inspecting the various URL components

Explore AS, differentiate

false alarm. Blacklist-based method is inefficient in responding to become easier, no comprehensive blacklist can ensure a perfect

or need to get the job done? What have they tried in the past? What pros & cons do these solutions have? i.e. pen and paper is an alternative to digital notetaking omers when they face the problem Which solutions are available to the cust

by using hyperlinks

page content inspection

All of these techniques suffer low detection accuracy and high emanating phishing attacks since registering new domain has up-to-date database.

7. BEHAVIOUR

indirectly associated: customers spend free time on volunteering work (i.e. Greenpeace) i.e. directly related: find the right solar panel installer, calculate usage and benefits; What does your customer do to address the problem and get the job done?

Know what a phishing scam looks like Don't click on every link

Get free anti-phishing add-ons

Don't give your information to an unsecured site

website. This site can be a social media site or a lottery site or any

website that looks like the genuine website, or by hacking a real

promotional site. Thus, a phisher relies on building trust, so that

the victim believes that she/he is in contact with a reputable

masquerading as a reputable organization or person. The phisher obtains basic information of the targeted users by creating a real Scammers try to gain access to victims' sensitive information by

ers have to do it because of the change in re What is the back story behind the need to do this job?

What is the real reason that this problem exists?

9. PROBLEM ROOT CAUSE

J&P

Focus on J&P, tap into BE, understand RC

Rotate passwords regularly

Don't ignore updates

Install firewalls

Don't be tempted by pop-ups

Don't give out important information unless you must

Have a Data Security Platform to spot signs of an attack

8. CHANNELS of BEHAVIOUR

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8.1 ONLINE

What kind of actions do customers take online? Extract online channels from #7

All the phishing scams occur online. So, whatever a customer does is a trap if he/she is not cautious.

What kind of actions do customers take offline? Extract offline channels from #7 and use them for customer de-8.2 OFFLINE

Extract online & offline CH of BE

Offline attacks are also possible. An attacker can eavesdrop or watch keystrokes pressed by the customer to get sensitive credentials to start the attack.

2. JOBS-TO-BE-DONE / PROBLEMS

Which jobs-to-be-done (or problems) do you address for your customers?

There could be more than one; explore different sides.

phishing sites by applying a machine learning algorithm which An efficient and intelligent system is designed to detect implements classification algorithms and techniques to extract the phishing datasets criteria to classify their

This system will intelligently provide all necessary details to the user to convince them if a site is genuine or not.

entity. A phisher might use tricks, persuasion, visceral influence, and/or any other technique to gain a user's trust. X A Tabulation

10. YOUR SOLUTION

What triggers customers to act? i.e. seeing their neighbour installing

3. TRIGGERS

If you are working on an existing business, write down your current solution first the canvas and come up with a solution that fits within customer lim fill in the carvas, and check how much it fits reality. solves a problem and matches customer behan

extract the phishing datasets criteria to classify their legitimacy detect phishing sites by applying a machine learning algorithm which implements classification algorithms and techniques to Our solution is to build an efficient and intelligent system to

EM

AFTER: sense of safety whenever he/she attempts to provide

sensitive information to a site

If you are working on a new business proposition, then keep it blank until you fill in

i.e. lost, insecure > confident, in control - use it in your communication strategy & design. The ever-evolving social engineering attacks, the difficulty to track down cybercriminals because of the anonymity nature of the How do customers feel when they face a problem or a job and afterwards? internet and the suspicious characteristics of URLs. **BEFORE:** doubtful and anxious about their privacy solar panels, reading about a more efficient solution in the news. 4. EMOTIONS: BEFORE / AFTER Identify strong TR & EM

1.	https://www.ideahackers.network/problem-solution-fit-canvas/
	https://medium.com/@epicantus/problem-solution-fit-canvas-aa3dd59cb4fe