

# **Vulnerability Cost of Breach Calculator**

## **Functional Specification**

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# Table of Contents

Introduction .....	2
Project Overview .....	3
The Goal.....	3
Assumptions .....	3
Risks.....	3
Functionality.....	3
Target Market .....	4
Project Description .....	4
System Function .....	4
System Requirements .....	5
Use Case Diagram .....	5

## **Introduction**

The purpose of this Functional Specification is to provide a detailed background on how the Vulnerability Cost of Breach Calculator is going to function. It will go through the appearance and how the user will interact with it.

I plan to design tool that will calculate the cost of a data breach occurring to an organisation with the intention of showing the importance of been prepared and have a cybersecurity budget in place.

## **Project Overview**

### **The Goal**

The goal of this project is to come up with a tool that organizations can put into place to determine the potential risk they may face if they were to experience a data breach. With this tool companies will hopefully be more inclined to invest more in cybersecurity if they were to be able to visualise the potential risk that they may fall victim to.

### **Assumptions**

The following are assumptions that have been made:

- There will be sufficient data in enough detail for the calculator to produce accurate results
- It is possible to be able to design a functional tool to aid organizations, insurers and more

### **Risks**

The following are risks that have been considered:

- It may be hard to find the detailed data that is needed in order to produce the calculator
- Conflicting resources may affect accurate predictions

### **Functionality**

The Vulnerability Cost of Breach Calculator is a tool that gathers information provided by the organization will calculate the potential cost the organizational will face in the event that they fall victim to a data breach attack. The tool will take into account factors such as equipment owned by the organization, client size, type of attack, type of data stored and will provide an estimate of what the cost is to be expected in the event of an attack.

This functional tool would also be beneficial to insurers. This will allow them to discover what are the present liabilities if an organization was to get attacked along with what insurance claims might be put in place in the event of an attack.

## Target Market

There are two main groups in regards to the target market of the Vulnerability Cost of Breach Calculator:

**Organizations:** With cybersecurity still not the main focus for many; organizations are often left open to attack from data breaches. Many feel it unnecessary to increase the budget when it comes to this area as they don't think they will fall victim. With this tool, more awareness will be brought forward regarding the importance of having a realistic cybersecurity budget to protect organizations and their assets in the event of a possible attack. This tool will give the organization a view of how much a breach will cost them if they are not prepared in the event that the worse was to happen to them

**Insurers:** Besides the organizations, the tool will be a great aid to insurers. They will also be able to see a more detailed picture surrounding the event of data breaches. They will be able to determine the type of insurance claims a company or organization might need to make. Along with the types of claims, they would be able to see what liabilities are present in those events.

**Cybersecurity Consultants:** Whether the speciality is Penetration Testing, Vulnerability Analysis etc a tool like this would aid them in pitching their company to potential clients because they can show them a functioning calculator that will indicate how expensive a breach may be. So based on the type of breach, if the data was impacted, the size of the organization, they can use this to help pitch their tool to organizations.

## Project Description

### System Function

The functionality of the calculating tool will consist of asking the user to enter a number of different inputs that will consist of:

- The type of data breach or attack
- The number of locations in operation
- Staff numbers
- Rate of staff pay
- The type of data stored
- How many clients
- Annual revenue
- Types of devices that are in use

When the user had entered all the criteria they will be redirected to a different screen where the total cost of the potential data breach will be displayed in the centre of the screen. The

total cost that will be shown will be the potential cost that is expected to be the outcome with the parameters that were provided.

With the interface, below the given potential cost will be the factors that were provided and a total breakup of the cost. This will explain the individual costs that will make up the total cost. This will ensure that there is logic and planning behind the numbers and not the case of giving the client a random number.

## System Requirements

### Use Case Diagram

