**Lockheed Martin**

***Threat Data Analyzer***

**Requirements Document**

**Prepared by: *Tanpreet Singh***

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**Sponsors: *Jonathan Munilla*, Lockheed Martin**

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# **1. Summary**

## **Introduction**

In this document we will give details on what are the requirements for the application that we will be working on in our “Threat data analyzer” version 1.0 application. This document will include

* **Objectives** – We will describe why we are creating this application and what value does it provide to the organization
* **Project Requirements** – It will be divided into functional requirements (features) and non-functional requirements (technical)
* **Technical Requirements** - the technological requirements are the things needed to run this application on any system.

## **1.2. Project Overview**

This section of the document will describe system objectives, key functions of application and benefits that application provide to the stakeholders.

### **1.2.1. System Objectives**

The main objective of the Threat data analyzer application is to give security engineers an easy-to-use application where they can go to create a pdf report of a specific threat. Application will give engineers a one stop destination to add, edit or delete any threat in the database and keep record of all vulnerabilities.

### **1.2.2. Key Functions of Application**

The key functions are the ones that are crucial for application to work and provide the highest business value to the engineers or the organization. These functions include:

* Create a database full of security threats or vulnerabilities
* Functionality to generate a detailed report of a specific threat
* Detailed report will be in pdf in an easy-to-read format
* Administrator, engineers will have the option to add, edit or delete a threat
* Search bar to search for threats by its threat name, threat level or alphabetically

These functions are the main functions and does not include any desired features given by our sponsor.

### **1.2.3. Stakeholders**

The application holds many benefits for the stakeholders of this project.

* IT Support
* Cyber Security Engineer
* Cyber Security Administrator
* Cyber Security Analyst
* Information System Security Manager
* Cyber Security Penetration Tester

# **2. Objectives**

## **2.1. Scope**

Objectives given above are the highest priority and will be completed in the time given to complete the project. On the other hand, we have some “nice to have” features that will be considered extended goals. We will discuss them in [**3.2.2. Extended Goals**](#ProjectRequirements_3_2_2)**.**

# **3. Project Requirements**

## **3.1. Main Functional Requirements**

This section includes all the key features that must be done for application to be considered complete.

**User requirements -**

1. Application should have to login by using login page before they can access or change anything in the database

**System requirements**

* 1. Application will give users 5 attempts before they get locked out from their accounts
  2. After the 5th attempt error box will appear showing a message
  3. Message will show in clear text “Contact administrator” to the users so they can ask their administrator to reset their passwords

**User requirements -**

1. Data threat analyzer application will have a search bar where users can enter the threat name and that threat will appear on the top of list.

**System requirements**

* 1. Application will show an error if no match is found in the middle of the screen clearly visible for users to see.
  2. In a case application could not find a match, a message will appear that explains how users could write in the search bar to get better results.
  3. Find threats by keywords such as spec version, operating system and by threat levels.

**User requirements -**

1. Data threat analyzer application should have the ability to generate pdf that consist of a specific data threat selected by the user.

**System requirements**

* 1. Small window will appear to show the preview of the pdf before saving it
  2. It will ask the user where would like to save the pdf generated by the application
  3. Default option for saving files will be Desktop, but will have the ability to change it and save in another place

**User requirements -**

1. Application will only have 1 administrator and administrator will have the ability to make changes to the system.

**System requirements**

* 1. Administrator should have the ability to add new users with their roles and delete users.
  2. Administrator will have the ability to reset password for users when required
  3. There will be 2 roles that you can assign it to a user view only or an engineer.

**User requirements -**

1. Threat data analyzer Application will have a settings option on the top right corner after signing in.

**System requirements**

* 1. After clicking on settings window will appear with 3 options, users, user manual and log out option.
  2. User’s button will open a window where admin can make changes as mentioned in requirement 4 above.
  3. User manual will open a pdf of user manual document.

### 

### **3.2.1. Extended Goals**

This section has extended goals that project “can have” these features are desired functions but are not required during version 1. These functions can be implemented in the future or late on if time permits.

#### View only users will have less features than engineers and administrator

##### View only users will can only have print pdf options

##### These users cannot add, edit, or remove any data threats from the database

##### View only users and engineers cannot add/delete users.

#### Administrator will have user history options where he can go see history on other users

##### Admin can see who edited a data threat in the application recently

##### Admin will be able to see when did that user logged in last time

##### Admin could see if multiple people edited a data threat file

#### After login show a list of threats in the middle of the screen with dates

##### Threats that are recently modified will be on the top of the list

##### When user click on a threat, window will appear showing a summary of that data threat

##### Show the threat name in the list and time when it was last modified.

# **4. Technical Requirements**

## **4.1. System and Technological Dependencies**

This application can be used on 3 operating systems windows, Linux and macOS. Our application cannot be used on a mobile or tablet devices. In our application, we have used JavaFX, AWS, SQL as our programming language, database, and cloud service to develop this application. We used them because it is supported by most operation system, they are faster and more efficient than any other Competitors. For best performance we recommend using windows 7 or higher, intel i3 processor or higher, AMD Ryzen 3 processor or higher and at least 2GB of RAM.

## **4.2. Non-Functional User Requirements**

#### All users have these technical constraints

##### Users cannot login at 2 different computers at the same time

##### Engineers and view only users cannot reset their own password, they must contact administrator

##### Two users cannot edit the same file at the same time

## **4.3. Non-Functional System Requirements**

#### Data threat analyzer Application is only compatible with computers.

#### TDA application cannot be used on a tablet, smartphone, or Chromebook

# **5. What is Considered Done?**

The requirements that need be fulfilled for the completion of this project include:

* All third-party software has been approved by the sponsors.
* A detailed design document has been written and has been submitted to the sponsor.
* It is considered done when the scrum team agrees that application is well coded and works as good or even better than what our sponsor asked us to do.
* It is considered complete when we can go into production and able to show it to our client (sponsor)
* It's considered complete when it works as designed and have proper documentation (ex-readme file, API documentation)
* It's considered done when the product does not have any bugs that can impact any features of our product.

# **6. Glossary of Terms**

|  |  |  |
| --- | --- | --- |
| **#** | **Term** | **Description** |
| 1 | ***AWS*** | ***Amazon web services cloud platform to store data*** |
| 2 | ***OS*** | ***Operating System like Windows, MacOS and Linux*** |
| 3 | ***RAM*** | ***Random Access Memory*** |
| 4 | ***i3*** | ***Intel i3 processor (Hardware recommendation)*** |
| 5 | ***TDA*** | ***Threat data analyzer - application name*** |