

Project Initiation Document

Mitigation Repository

Team River Otters

Written by Michael Burke

Ver 3.0

4/15/20

Project Summary:

The goal of this project is to create a database of cyber security mitigations. A Mitigation, in the context of the project, is the mitigation or prevention of risk to systems or set of systems. The database will be a collection of many mitigations that users can search through, add to, and forking off of other mitigations. Forking is the process of expanding upon an existing mitigation and forks can be forked again creating long chains.

Project Scope:

- In Scope
 - Web interface that accesses the data from the database
 - Users can add, search, and fork
 - Testing of all database procedures and all web features
- Out of Scope
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- Future Phases
 - User and admin accounts
 - Web login
 - Editing and Deleting Mitigations

Feasibility Analysis:

The project is feasible, but a few problems and issues that might arise are as follows:

- Dev team members needing to learn databases
- Dev team members needing to learn languages such as AJAX and PHP to pull and push from the database

The team can combat these challenges by using all available resources from the school as well as members with experience to teach others on the team. The Dev team also needs to use all available software that can help create the database and that can connect the front end and back end software.

Assumptions, Dependencies, and Constraints:

Assumptions:

The team will be working on AWS (Amazon Web Server) using MySQL for the database and writing the Web-interface with HTML, CSS, and JavaScript with the connecting between the two ends written in AJAX and PHP. AJAX and PHP allow for an asynchronous connection so that all features are on one page of the web interface.

Dependencies:

The project is dependent on connecting the database and the web-interface so that a user can search, add, and fork a mitigation

Constraints:

A constraint we have is to have a working repository by the end of the semester and that each sprint, besides sprint 0, we have working code that shows progress.

Initial Project Plan

Sprint 0:

- We meet with Mr. Resch and Mr. Munilla to discuss future sprints and prepare the Spring 1 product backlog

Sprint 1:

- Creating the basic framework for the website that will host the database.

- Create the ER diagram or the database

Sprint 2:

- Create the database and have procedures for searching, adding, and potentially forking done
- Connected the database to the web-interface
- Have searching completed on the web-interface

Sprint 3:

- Finish procedures that have to deal with editing and deleting, along with anything that our sponsors wanted
- Going over the website to change anything that our sponsor want and that needs to be refined
- Show that adding and forking work on the web-interface

Sprint 4:

- Finishing most if not all web-interface and database code
- Show any new feature that sponsor have asked
- Show any touch up to pre existing features

Sprint 5:

- Show finished product, going over everything and getting feedback on the finished product
- Talk about implementation of the product

Organization and Governance

Stakeholders: Andrew Resch and Jon Munilla

Team Roles:

- Project Owner: Anthony Tesoriero
- Scrum Master: Alyssa Indriso
- Dev Team:
 - Michael Burke
 - Kristien Stansfield

- Theresa Morris
- David Glennan

The team will work together through any issues, problems, or challenges and helping one another along the way. The team also has resources at Rowan if anything becomes too much of a challenge for the team.

Communication Plan:

Bi-Weekly Sprint Schedule: shows how the Scrum Team is going to operating for each Sprint Review

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday

Meeting a team: 5pm – 7pm	Dev groups meet with each other during their free time	Meeting as Team: 5pm – 7pm	Meeting as Team: 5pm – 7pm	Dev groups meet with each other during their free time	If possible, meeting in person to work on project	If possible, meeting in person to work on project
Meeting as team: 5pm – 7pm as well as sending the written deliverable	Dev groups meet with each other during their free time	Meeting as team: 5pm – 7pm as well as going over everything for Sprint Review	Sprint Review, Sprint Resorptive, and next Sprints Backlog	Dev groups meet with each other during their free time	If possible, meeting in person to work on project	If possible, meeting in person to work on project

Quality Plan:

Documents:

- **Requirements:** Due March 2nd
 - Written by Alyssa Indriso
- **Design:** Due March 23rd
 - Written by David Glennan

- **Validation:** Due April 6th
 - Written by Anthony Tesoriero
- **Test Script:** Due April 20th
 - Written by Theresa Morris
- **Implementation Manual:** Due May 4th
 - Written by Kristen Stransfield

Risk Assessment:

This measurement was chosen because parts of the project can fall into gray areas between two extremes, the team needed a more defined idea of the risk for the project.

Likelihood	Very High	L	M	H	VH	VH
	High	L	M	M	H	VH
	Moderate	L	L	M	M	H
	Low	VL	L	L	M	M
	Very Low	VL	VL	L	L	L
		Very Low	Low	Moderate	High	Very

Severity

Risk:

- **Team members unfamiliar with languages for project i.e (Databases/MySQL, AJAX, PHP, CSS, etc.)**
 - Affects the project
 - Overall Moderate
 - Severity and likelihood are both moderate
 - To mitigate this risk the team will work together to learn and does reacher about these new languages. Also, if others are skill in one or more of have knowledge will teach others on the team

- **One of the major requirements of the project is incomplete (Forking, Adding, Searching)**
 - Affects the project and product
 - Overall High
 - Severity is Very High but likelihood is low
 - If this would to occur the team would push back activities for the following sprint.
- **Team has to switch to meeting online due to unforeseen events**
 - Affects the project
 - Overall very low
 - Severity and likelihood are both very low
 - If this were to happen then we will use online chatting and adjust accordingly to everyone's new schedule

Estimated Cost and ROI:

Estimated Cost:

The team will host our database on AWS until implementation at a monthly cost of \$3, if we are working on this project for the next four months that would cost around \$12 in total. In the time frame of the project we will be meeting with our sponsors once every two weeks for at least thirty mins and the average Lockheed Martin hourly salary is around \$30 - \$45, in total the project would cost our sponsors \$120 - \$180 within the next four months for overall project total of \$132 - \$192.

ROI:

Once implemented into their systems the average cost of the server would go down considering that Lockheed Martin most likely has their own server to run the database on. The database will save employees time and in turn money since they have an easy way to look up mitigation they need for a certain scenario.