Risk Analysis

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# Introduction

This document outlines the security risks that can occur in the music trivia web-based game and evaluates whether they are covered in the project and how they would be addressed. Using the top 10 OWASP also help define some security risks for this project.

# Risk identification

The “impact” is how long it would take to implement it in the project. Where 1 is low and 5 is high.

The “likelihood” is how likely the security risk can happen Where 1 is low and 5 is high.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Risk ID | Risk Description | Impact(1-5) | Likelihood(1-5) | Implemented |
| 1 | Unauthorized access to the song management section of the website. | 3 | 2 | Yes |
| 2 | Storage of user passwords in the database without encryption. | 1 | 1 | Yes |
| 3 |  |  |  |  |
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|  |  |  |  |  |

# Mitigation plan

This section outlines how the identified security problems will be addressed. It includes implementation strategies or solutions to solve the problem. These measures are to be taken into consideration.

## Unauthorized access to the song management section of the website.

**Mitigation:** Implement user roles.

**Evidence:**

Each function in the controller is associated with a specific user role that determines who can access that function. If a function is not assigned a role, it can be accessed by anyone.**A screen shot of a computer

Description automatically generated**

## Storage of user passwords in the database without encryption.

**Mitigation:** Implement password hashing.

**Evidence:**

I have implemented the password hashing when you sign up in the application. I use the bcrypt algorithm hashing. Bcrypt is wildly use that doesn’t use a lot of memory and performance to hash and it’s one of the moderate hashing security.

A computer screen with white text

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