



## SENG8060 Final Project – Threat Modelling

**Report Due: Sunday, 12 December, 2021 by 11:00pm**

In this group project, you are asked to produce a complete threat evaluation for the fictional company SQA Workout Inc. You have been provided a vulnerability scan report and be tasked to disseminate information to produce a risk/threat model.

SQA Workout Inc. is a new, small tech start-up company. Consisting of 10 employees, they have been in business for 3 years and have just begun to turn a profit. The company offers a Web application to its users and provides work out routines, work out tracking and health tracking features. Its users come in two different types:

- Regular customers who subscribe to the app and use it to work out and track their progress
- Personal fitness trainers who provide work out content and videos to the app and receive money back.

You are given the freedom to choose which threat model you would like to use, see:

[https://en.wikipedia.org/wiki/Threat\\_model](https://en.wikipedia.org/wiki/Threat_model)

However, **DREAD** is encouraged for this exercise. You will be using results from a completed vulnerability assessment. Please see the file: **Sample\_Web\_Assessment\_Report.pdf** under **Evaluations** in eConestoga.

You can deduce the company's infrastructure from the Assessment Report and can assume any infrastructure that you wish if it doesn't conflict with the report.

In this project you will prepare a report. In your report, you will need to provide the following:

- **Executive Summary:** A 1-page maximum overall summary of your findings and conclusions. Should be written in a non-technical manner.
- **Technical Report:**
  - o Describe the vulnerability in your own words. How might it impact the given company and situation. How might an attacker use this vulnerability to attack this company? Why would an attacker use it? What opportunities might it present to the attacker?
  - o **Assess 6 relevant vulnerabilities with the formula of your choosing.** For example, if you're selecting **DREAD**, you will need to assess: Damage, Reproducibility, Exploitability, Affected Users, Discoverability.
  - o Provide mitigations and suggestions for addressing discovered issues. These should consider the company, its situation and resources.