INFS3208 Project Proposal

# Introduction

o Give background information about this project: What is this project about?

The project I have chosen to undertake is of **Type I** which is a scalable and reliable web-based application using Micro-Service architecture and related technologies. The website I have chosen to design and implement these cloud-based technologies is a personal health and fitness site that will aid users in their personal fitness journey. The website, named “CDF Fitness”, seeks to help individuals who are either beginning their fitness journey or looking to optimise the regime they are currently on.

o Explain the motivation of this project: Why is this project important?

In a time where health and fitness are of the utmost importance in a person’s regime, providing a platform for individuals that is not only informative but also interactive and community driven is critical. Currently, there is a wreath of differing information from around the internet that promotes various ways to exercise which can be confusing for both beginners and experienced persons. By gathering this information into a singular website for individuals to access can help people streamline their fitness journey while also allowing them to share their experiences and seek advice with other users in a community-driven experience.

o Describe the overall objective and features of the project: What features does this project have?

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o Explain the limitations of traditional computing solutions: Why doesn’t traditional computing solve the problem well?

o Explain the benefits brought by cloud computing: How does cloud computing fit into this project?

## Background Information

# Technical Solutions

o Describe what cloud technologies you’ve used in this project (e.g., k8s for the front-end app, NoSQL for the back-end data storage).

o Provide a monthly cost estimation of all the cloud resources used in this project (e.g., costs of VMs, K8s cluster, networking, Load Balancers, etc.).

# Architecture Design