October 21, 2023

**COMP3095 Assignment 1 Report**

Stefan Kepinski – 101356431

James Macaloney – 101362896

**github link:** [**https://github.com/JamesMaca/COMP-3095-Assignment-1**](https://github.com/JamesMaca/COMP-3095-Assignment-1)

**Goals achieved:**

The objectives that were achieved for this assignment are as follows:

* We successfully set up the environment for our project and have become much more familiar with that process.
* The 3 main modules were created – User, Comment, and Post. All worked with CRUD operations on their own and tested through Postman.
* Unit tests were successfully built for Post.
* General better understanding of microservices and containerization.
* Overcome challenges with setting up Postgres / SQL containers and databases and tables.

**Challenges faced:**

The challenges and shortcomings of our project are as follows:

* Full containerization. We were able to set up containers for our modules, but when we tried to implement a parent container for all of them through docker-compose, we ran into lots of difficulty. The frustrating part is that it seemed like it was almost there.
* Building unit tests for the SQL modules. I (Stefan) was having tons of difficulty with importing Postgres test containers. I did lots of looking online for the right things to import and add to dependencies, but nothing I tried seemed to work, so I did not move on to trying to build the logic behind the tests.

**Final thoughts:**

It was tough, and we wished that it all came together to show a great working product. A lot of hard work was put into this and trying to learn things that we were given to figure out on our own. New things were learned, but we do hope that some of these requirements can be covered in class so that we can get this assignment caught up for the next assignment.