## [CMSC 455] Assignment #2: REST APIs

Due: End of Day, October 10th, 2021

The goal of this assignment is to explore implementing REST APIs, specifically, a microservice application that consists of two services communicating via REST. Below are the details.

- 1. The first of the two services is called PingService and the second PongService. The PingService has a HTTP GET endpoint called ping and the PongService a HTTP GET endpoint called pong. When ping receives a request (which does not contain any input data), it, in turn, makes a GET request to pong, records the time it takes to complete the request (in milliseconds) and returns a JSON payload with a single value pingpong\_t. The other end point pong always returns a randomly generated integer value.
- 2. Both of the services use HTTP Digest Authentication, with a default username/password pair set to vcu and rams.
- 3. Both services are deployed to Heroku and available to be contacted from anywhere. You should be able to create a free Heroku account that would allow you to do this.

**Submit:** Submit 1) ALL of the application code required to run your application as a Zip file; and 2) the URLs to contact both of your services on Heroku; via Canvas by the deadline.