ECM3408 - Enterprise Computing – Alleys

1. **Microservice Identification**
2. **Microservice Implementation – Node js**
3. **Microservice Deployment – Docker**

Each microservice that comprises Alleys is run in a networked docker container. A Dockerfile to build the required image is presented below for each service.

1. *Dockerfiles*



1. *Running Alleys*

First a docker network must be created for the containers to attach to and be able to communicate with each other. This can be achieved with the command:



Then the images must be built from the Dockerfiles:



Lastly, attach the required containers to the network:



Afterwards, try any number of these CURL commands I have provided:

If you change a docker file with compose use docker-compose up –build

Only up every other time

Docker- compose down

Docker-compose restart service

Docker-compose logs -ft service

{

"name":"MongoError",

"err":"E11000 duplicate key error index: test.test.$country\_1 dup key: { : \"XYZ\" }",

"code":11000,

"n":0,

"connectionId":10706,

"ok":1

}