# Tantalum Assignment Submission – Meenal

I found the messaging service assignment really interesting and challenging. Challenging as I was new to Consul before working in this assignment.

I went through the consul application and gained some knowledge available over the web. As per my learning consul is used for service discovery and configuration.

It provides features like –

* Service Discovery
* Health Checking
* KV Store (KV- key value)
* Secure Service Communication
* Multi Datacenter

I have tried configuring the Consul for the application I have written and was able to achieve it. The exact way to configure and to run the application is provided in the ReadMe file in the project.

For this application I have written the Rest API service – MessageService which does the following:

* adding messages
* editing message but only within 10 seconds after the message is created
* returns messages (one endpoint to return all of them and one to get x number last messages
* deleting message but only if it's older than 2 minutes

However I did not use the in-memory database. I have used a tempory map for storing the data. The reason for the same is in my work experiences across the last 6.5 yrs, I have mostly worked on commercial DBs and have limited knowledge on in-memory databases. But I have started reading about in-memory database and should be able to implement it in next few days.

I have also written 3 test cases for testing the applications - addMessage/ getAllMessages / getMessagesForANumber . For the time being, I have written just 3 test cases but can add more for testing other functionalities too, as I have already implemented the solution for other end points as well.