**Description File for a web service created in R programming language.**

The option for creating the web service chosen was Plumber, which decorates ordinary R functions with special comments to expose them as REST web service calls.

The following describes the code written:

* Library(plumber) – this command loads the plumber package
* Comments/Swagger annotations – provide context to plumber to build the API. Swagger provides the platform for interacting with the API.
* Endpoint description – describes what an endpoint does. Its for documentation in swagger. So when the API is run, you’ll see a snippet that says what the endpoint does.
* Parameter descriptions – a function is defined that takes a single parameter message, and a definition that the parameter is going to be the message to echo.
* Serializer – serializing the output as a file.

**How the web service works**

It performs the following 2 operations: addition and subtraction.

In order to perform an addition/subtraction operation, click on the ‘POST’ button, then upon pushdown, click on the ‘Try it out button’. Enter the three parameters to be added/subtracted and click on the ‘Execute’ button. Scroll down to see the result.

In order to perform this task, the following needs to be stored beforehand:

* Rstudio
* R program, to facilitate writing of code in the R Studio IDE
* An API, preferably Plumber
* Xml package for windows

Upon executing the API, the following link pops up: <http://127.0.0.1:4364/__swagger__/>