Extra DataPower Development Exercises

HTTP Service

Create an HTTP Service that will serve up static content (html, css, ...) files.

These files will be stored in the folder local://rates.

Steps:

- in your application domain, create the folder local:///rates
- create and upload the 3 html files below into this new folder
- create HTTP Service: Rates-HTTP-Service

- **port** 8080

- Base Directory: local://rates

- Start Page: local://rates/index.html

index.html

```
<html>
<body>
Welcome to the <i>Todays Rates</i>
Rates may be found on todays-rates.xml or todays-rates.json.<br/>
</body>
</html>
```

todays-rates.xml

```
<todays_rates>
  <gbp>1.4</gbp>
  <usd>1.2</usd>
  </todays_rates>
```

todays-rates.json

```
{"gbp": 1.4, "usd": 1.2}
```

Test that the service is operational by:

- using a browser
- using curl

For the following exercise, the above will be considered an internal service, only to used by other services.

MPGW Service

MPGW Rates-MPGW

Create a MPGW service Rates-MPGW

- that can be called by an end user using either of the following URIs
 - /html
 - /ison

The two rules implied above will have code that accesses the appropriate information from the HTTP service and return it in an appropriate format.

Both of these rules use code that make a sideways call to the above HTTP service to access the relevant values in the relevant format. Both rules will also loop-back, meaning there is no call to a backend.

To make this sideway call:

- the /html rule will include an XSL (Transform) that makes an url-open call
- the /json rule will include a GWS (GatewayScript) that makes an urlopen call.

(These file are to be stored in a subfolder with the same name as this service.)

The code of each enhances the data received from the side call as follows and is returned to the client:

/html

/json

```
"Todays_rates": {
    "British_pounds": 1.4,
    "US_dollars": 1.2
}
```

where the output is produced by the same XSL / GWS that makes the sideways call, and the values in red above are extracted from the url-open / urlopen responses from the HTTP service.