



LAB- Creating First Mule Flow

In this lab, you will be working on **01-mulebasics-start** project

In this lab you will understand

- a) how Http Inbound endpoint maps Http request message to Mule Message
- b) How to invoke java logic
- c) How to use Set Payload transformer and Append String transformer

1) Under src/main/app , create a new Mule configuration file with name basics.xml

2) Drag Http Endpoint . Double Click it .

You will see that Connector Configuration is showing an error.

Click on “+” and configure a new Http Listener Configuration. Give the Port number as 8081. **Dont give any base path as of now.**

Switch to xml mode and observe that following line is outside the <flow> tag.

```
<http:listener-config name="HTTP_Listener_Configuration" host="0.0.0.0" port="8081"
doc:name="HTTP Listener Configuration"/>
```

This is a global element which can be referred from any flow

Again double click on http component and configure path (under Basic settings) as “/getprice “

3) Drag a java component, double click it and select the class name as **"com.way2learnonline.StockQuoteService "**

4) Drag a transformer called as **Append String** transformer, Double click and add " USD " in message Text input

5) Now run as Mule Application.



6) Go to browser and give request to following URL : `http ://localhost:8081/getprice` . **U should see an exception because the payload is null for HTTP GET request**

7) If you give request to `http ://localhost:8081/getprice?stock=mule` , query parameter “stock” will go as part of request. You can access query param value using following MEL

`#[message.inboundProperties['http.query.params'].stock]`

8) Drag a “Set Payload” Transformer and set the payload to the above expression.

9) Now give a request to `http ://localhost:8081/getprice?stock=mule` and observe that output is 100 USD

Congratulations !! You have Created your First mule flow and understood basics

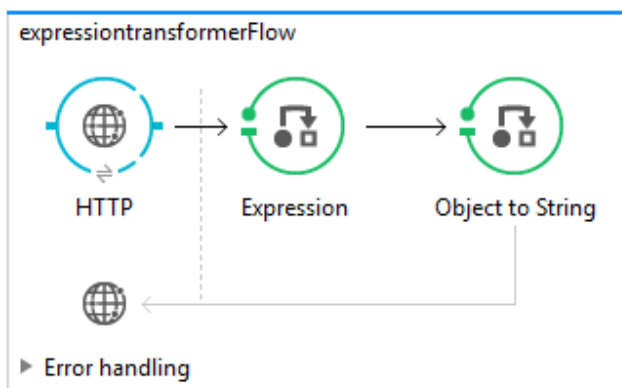
This is the end of the Exercise

LAB 2 : Using Expression transformer

In this Lab, you will understand how to use expression transformer

You will be working in same project “01-mulebasics-start”

Create a new “mule configuration file “ with name “expressiontransformer” and drag a flow as show below



Step 1

If you have configured a global element in a project, it can be reused across all the files in same project. In Lab 1, you have already configured "http listener configuration" .So, it can be referred in this xml file

For Http Listener, select the listener configuration which you configured in previous lab.

Give the path as /expressiontest.

If you give request as <http://localhost:8081/expressiontest?city=bangalore> , city will be the query param

Configure expression transformer such that the payload will be the value of city.

Run the flow , give a request to <http://localhost:8081/expressiontest?city=bangalore> and observe the result is bangalore

Now modify the expression so that the output will be “galore”

Run it and see if you are getting expected result.



Step 2

In this step, u can expect two request parameters from the browser : name and city

The expression transformer has to transform the payload as array of name and city values