LAB- Using File Module

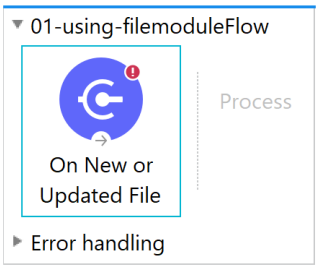
STEP1

1)Create a new project with name **01-using-filemodule-start.**

create a file with name using-filemodule.xml

In the " Mule palette" Add File module.

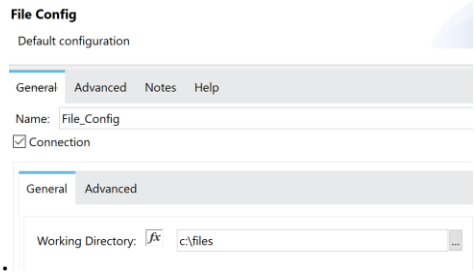
Now Drag and drop "On new or updated file " component .The flow should appear as shown below:



Create a new Connector Configuration by clicking on "+" button.

Select Connection check box

Give Some folder in your computer as "working directory". You can give "c:\files". Create c:\files" directory if it is not existing



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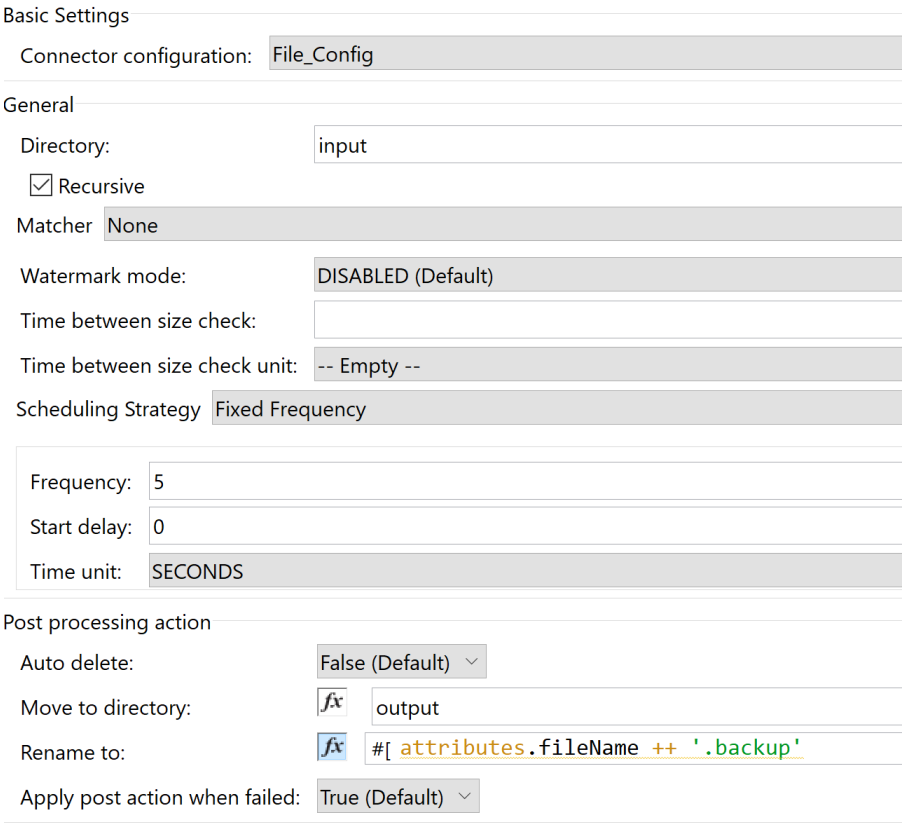
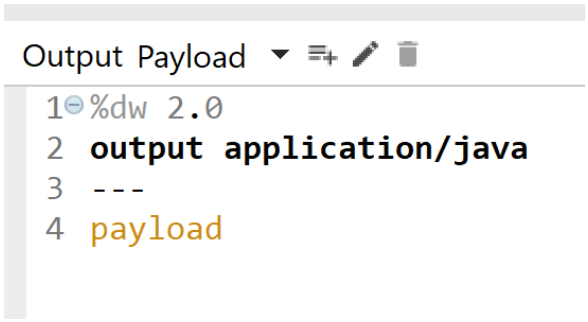
Now click on Test Connection and verify that "Test is succesful".

Configure the properties of “On New or Updated File” as shown below:



After “On New or Updated File” component drag a “Transform message” component.

Configure it as shown below:



Drag a logger after “Transform message” component to log the payload.

Wrap the logger inside For Each scope.

Run the application. Keep “orders.csv” given to you in the “c:\files\input” folder.

Observe that lines in orders.csv are logged in the console.

Observe that orders.csv is moved to c:\files\output folder with name orders.csv.backup.

Now stop the application. In the properties for “On new or updated file ” component, delete the “Move to directory” and “Rename to” values

Run the application and observe that input file will not be deleted or moved and the same file is processed.

Now stop the application. In the properties for “On new or updated file ” component, delete configure the “Watermark mode” as “MODIFIED_TIMESTAMP”.

Run the application and observe that input file will not be deleted or moved . But the same file is not processed.

Hope you understood what watermarking does.

STEP2

In this step, we want to write to files using Write component of file module.

We want to design a flow which listens for Http requests on http://localhost:8081/write. We will send pid, pname and price as query parameters.

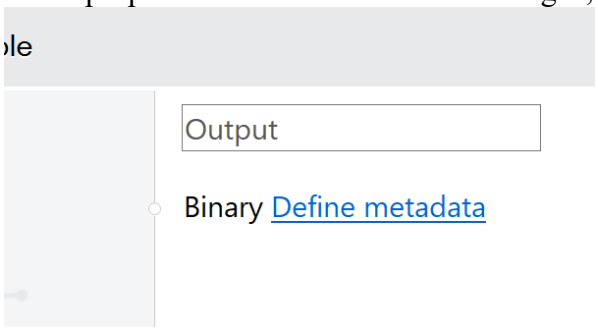
We want to write these values to a CSV file.

1) Create a new Mule configuration file with name “writingtofile.xml”

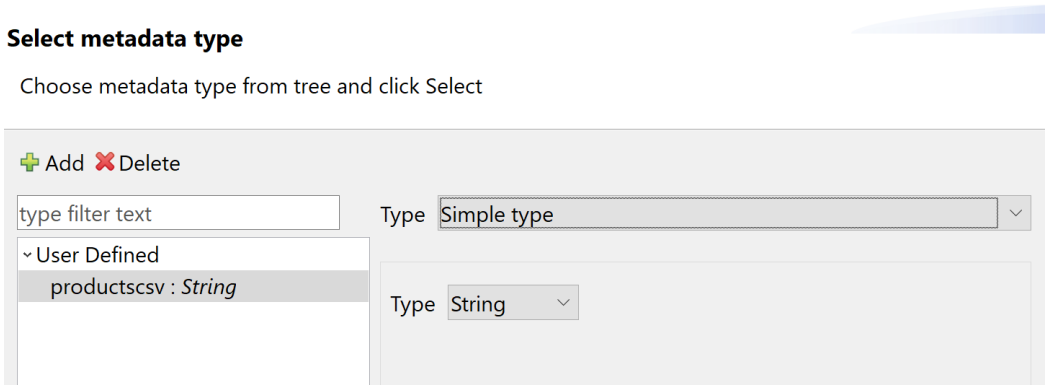
Drag a Http Listener to listen as 8081 and path /write

Drag a “Transform Message” component after listener :

In the properties tab of “Transform Message”, Click on “Define Metadata” link

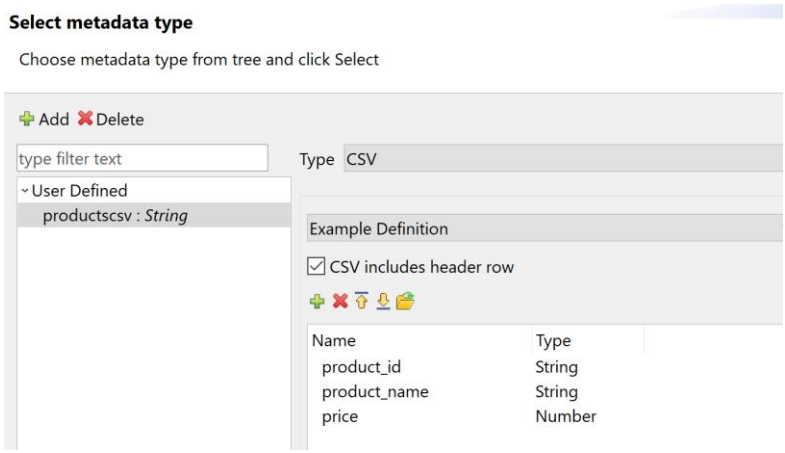


Click on Add button and give name as productscsv. Now the pop up window must look like below:



Now select Type as CSV

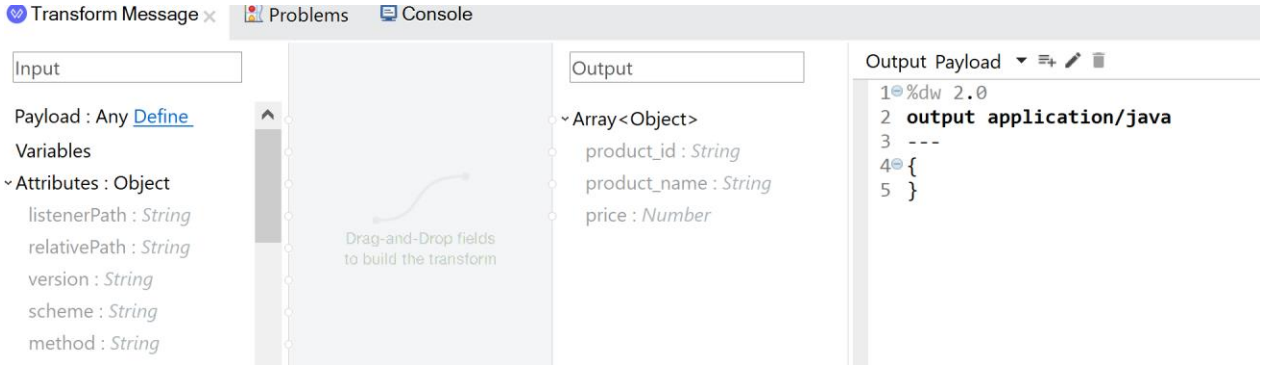
Click on + button to add 3 columns with name product_id,product_name and price as shown below



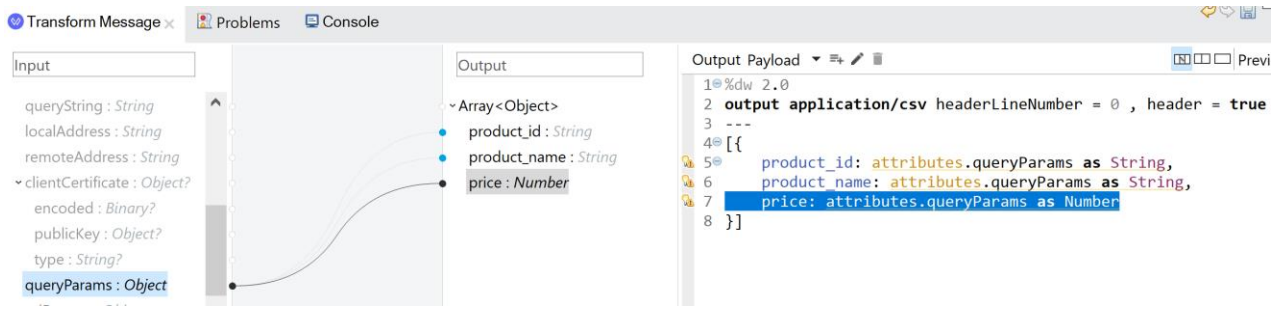
Unselect the check box “csv includes header row”

Then click on Select Button.

Now properties of transform message component will look like below

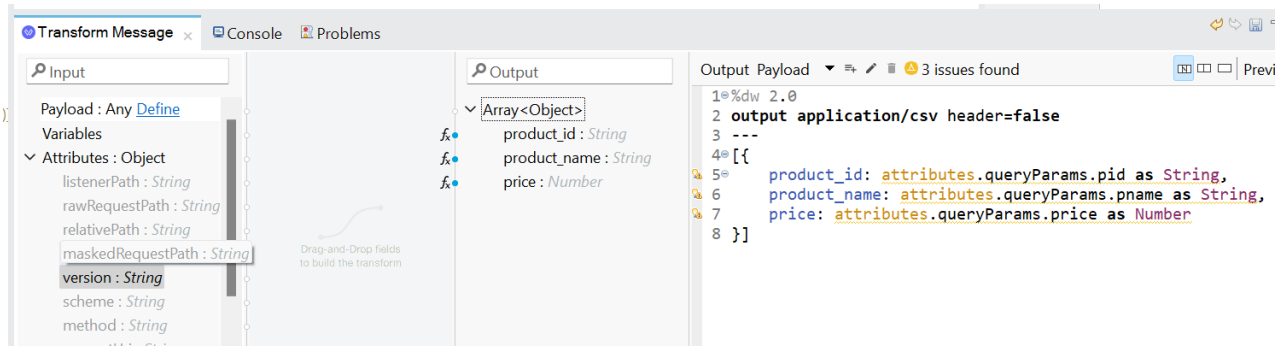


Now drag queryParams in input part to fields on output part as shown below:



Now, in the dwl part, modify the dwl as shown below:

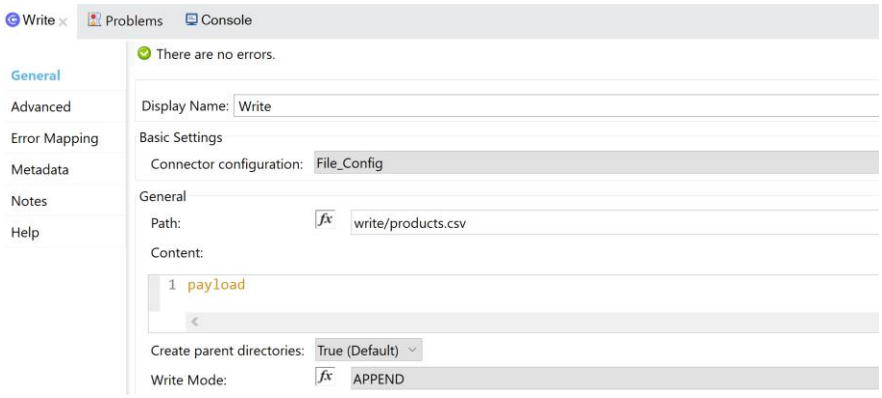
Make sure u have **header=false**



We are done with transformation.

Now, Drag write component of file module after “Transform Message” component.

Configure Write component properties as shown below :



Now run the application and give a request to
http://localhost:8081/write?pid=1&pname=HPlaptop&price=20000

Observe that products.csv is written in output directory.

If you give one more http request, the contents will be appended to the existing file.

This is the end of the Exercise