To achieve the file listener functionality, we need to create 6 rules.

Those are:

- 1. CSV File
- 2. Service Package
- 3. Service File
- 4. Parse Delimited
- 5. Activity
- 6. File Listener

Note:

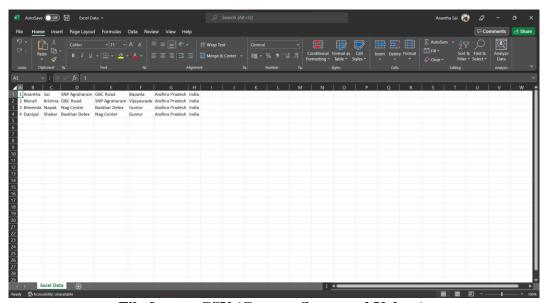
1. Definitely you need a personal edition or virtual machine on your laptop to achieve the file listener functionality. You can't do it in the Pega academy cloud instance.

In virtual machine before running thee file listener from Admin Studio,

- 1. You need to create folders manually in the path as proper permissions were not provided to the user.
- 2. In File Listener folder create 'report' and 'work_CustDTFileListener' folders. Where CustDTFileListener is the name of file listener.
- 3. Create a folder in 'work CustDTFileListener' as 'completed'.

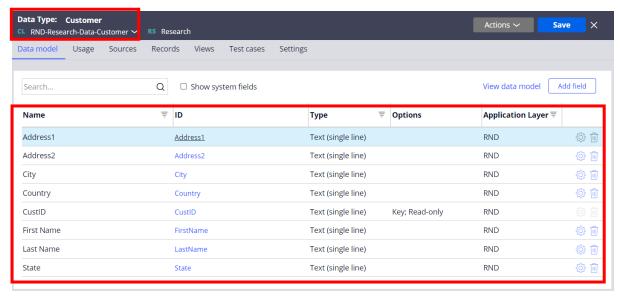
Step1: Create a CSV file with the below data.

			SNP			Andhra	
1.	Anantha	Sai	Agraharam	GBC Road	Bapatla	Pradesh	India
				SNP		Andhra	
2.	Murali	Krishna	GBC Road	Agraharam	Vijayawada	Pradesh	India
				Baskhar		Andhra	
3.	Bheemla	Nayak	Nag Center	Delex	Guntur	Pradesh	India
						Andhra	
4.	Daniyal	Shekar	Baskhar Delex	Nag Center	Guntur	Pradesh	India



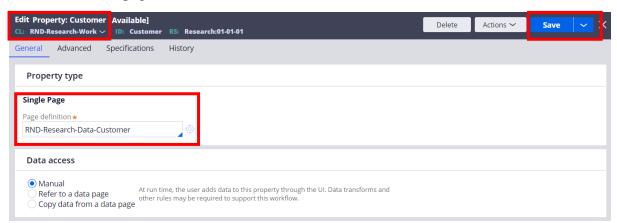
File format CSV (Comma-Separated Values)

Step2: Create a Data Type same as the below image and add the required fields.



• Create a Local source with a key as CustID and save the data type.

Step3: Create a Single Page property in the Work Class same as below and give the data type class name as the page definition.



Step4: Now create a Service Package from Records.

Navigation: Records → Integration-Resources → Service Package.

• Assign the Service Access Group as Authors and un-select the Requires authentication check box and save the Service Package.



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Step5: Now create a Service File from Records.

Navigation: Records → Integration-Services → Service File.

Keep Package name as previously created Service Package name (i.e., MyServicePage) and Customer Class Name as 'CSV'.

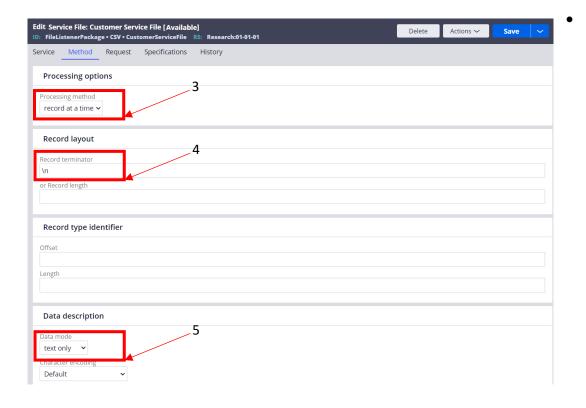
In-Service tab:

- Set the Primary Page Class as the Work Class.
- By default, the Page Name is **MyServicePage** keep as it is does not make any change.



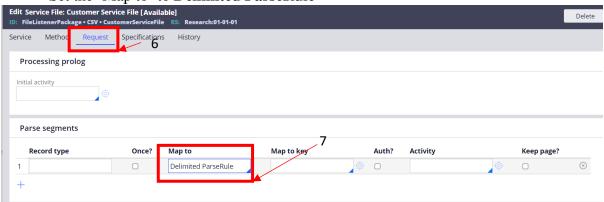
In Method tab:

- Set the processing method in Processing options as **record at a time**.
- Set the Record terminator in Record layout as "\n".
- Set the Data mode in the Data description as **text only**.

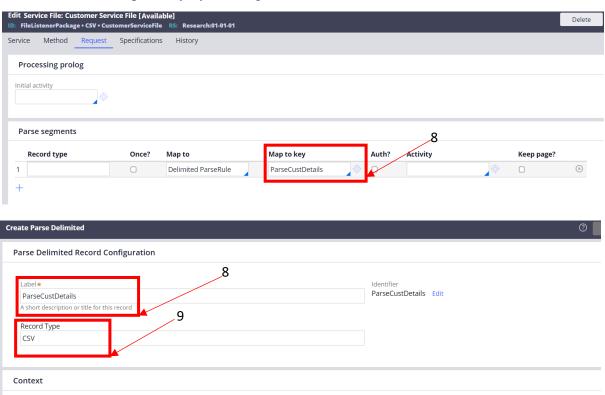


In Request tab:

• Set the 'Map to' to **Delimited ParseRule**



• Create a Map to Key by clicking the crosshair icon.



 After creating select the field format in Field Description as Comma-Separated Values (CSV).

RND-Research-Work

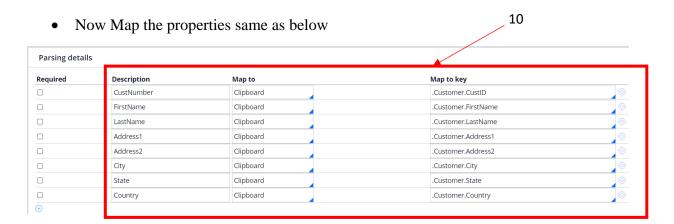
• Select the Method as use parse details in the Processing method.

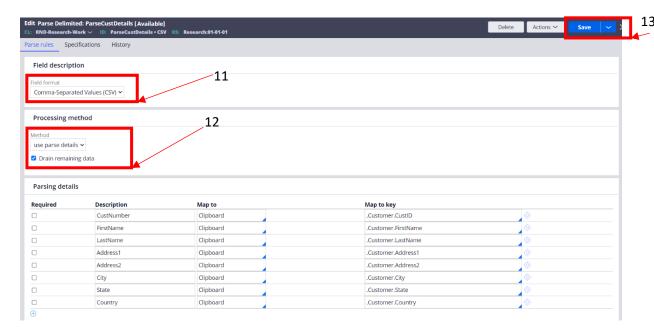
RND

Pega Platform

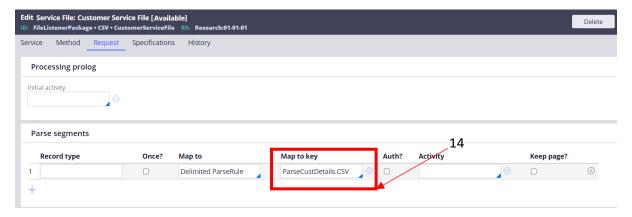
Add to ruleset *

Research • 01-01-01 •

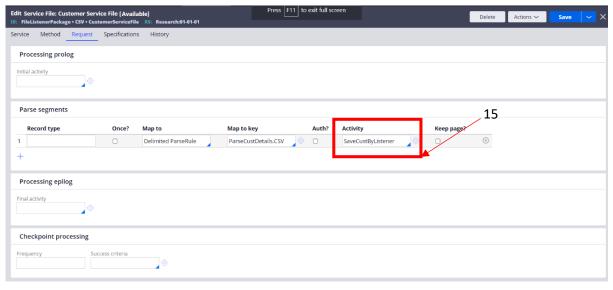


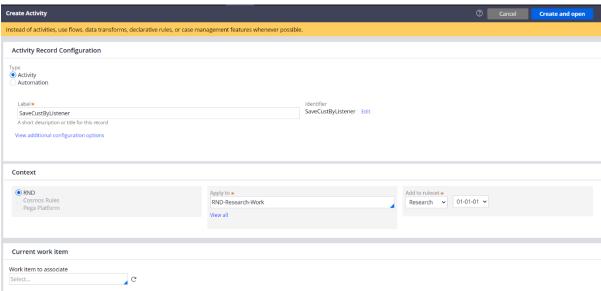


- Now save the Parse Delimited rule.
- Now get back to the Service File rule and refer the Map to key.

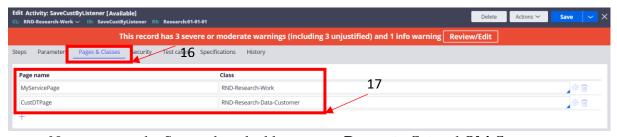


• Now Create activity by clicking the crosshair icon.

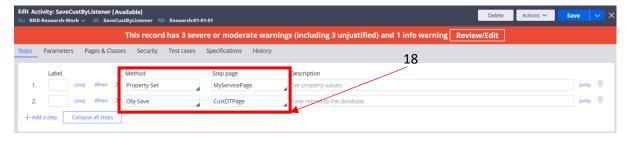




• Now move to Pages & Classes tab and set the following pages.

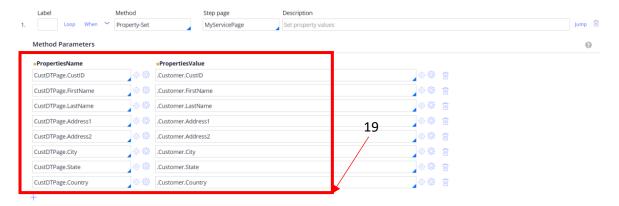


• Now move to the Steps tab and add two steps **Property-Set** and **Obj-Save**

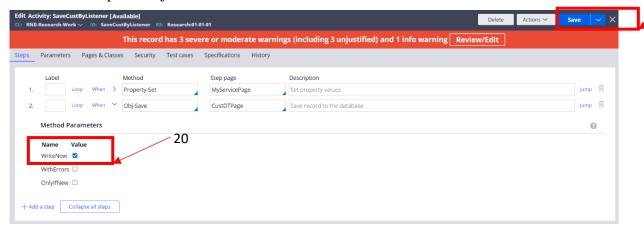


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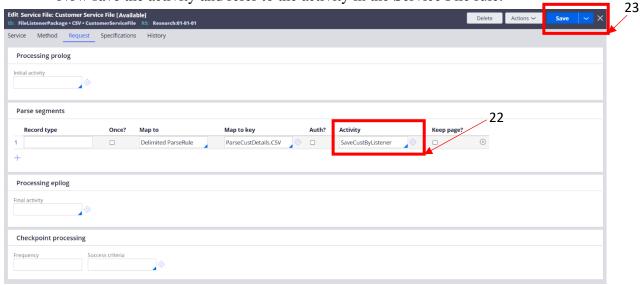
• Now expand Property-Set and set the **Properties Name** and **Properties Values** same as below.



• Now expand Obj-Save and select the **WriteNow** check box.



• Now save the activity and refer to the activity in the Service File rule.



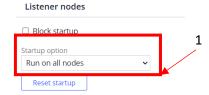
• Now save the Service File Rule.

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Step6: Now create the File Listener Rule.

Navigation: Records → Integration-Resources → File Listener.

• Set the Startup options in Listener nodes to Run on all nodes.

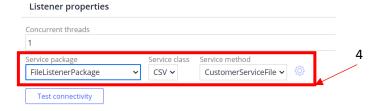


• Set the Source location and Source name mask same as the below image.



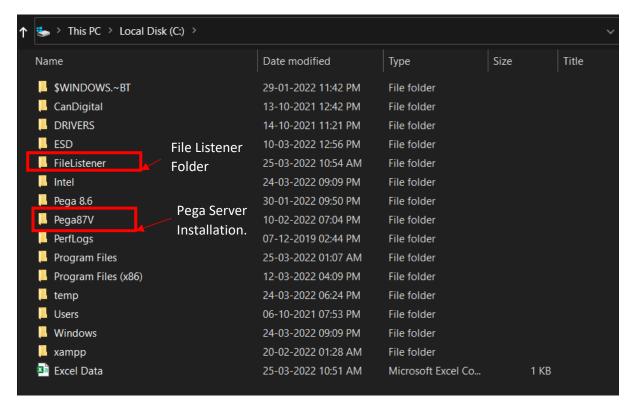
Note:

- **1.** In C:\FileListener\, 'C:' is the directory of Pega server installation path.
- 2. *.csv means, file with CSV extension with any name.
- Now select the Service Package, Service class, and Service Method from the dropdown.



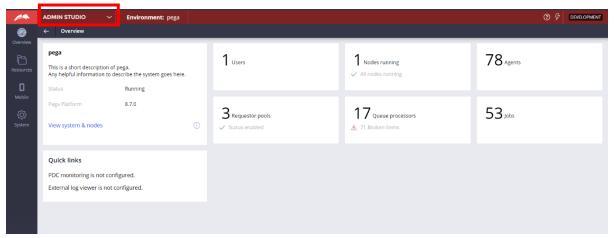
• Now save the File Listener rule.

Step7: Now move to the Pega server installed location in your laptop and create a Folder called **FileListener**.

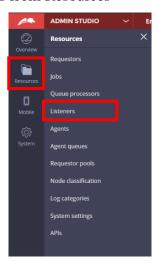


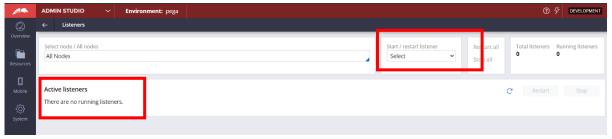
Confirm your work:

• Now move to Admin Studio and click on Resources.

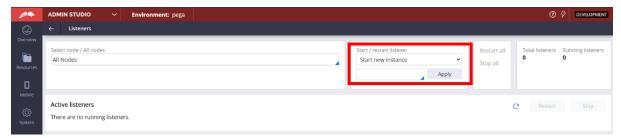


• Select Listeners from Resources

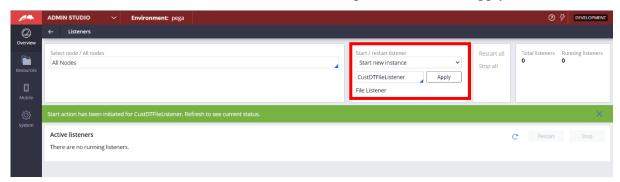




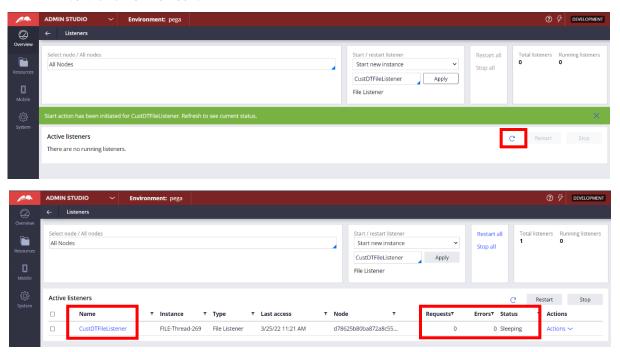
- Initially, no nodes were running.
- Now select Start new instance from a dropdown Start/ restart listener.



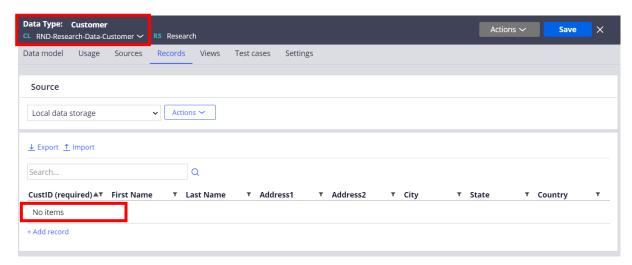
Now select the file listener from the autocomplete and click on apply.



• Now click on refresh.

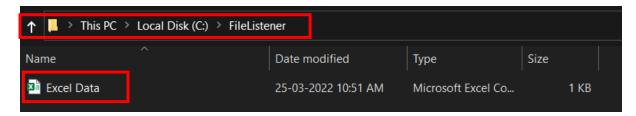


- Now we can see that the file listener status is sleeping and requests or 0.
- Now check the records in data types, we can see that no records were present.



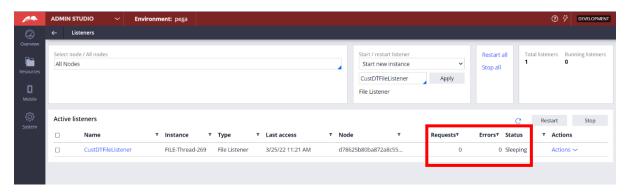
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 Now copy and paste the CSV excel file, which was created in Step1, to the FileListener folder.

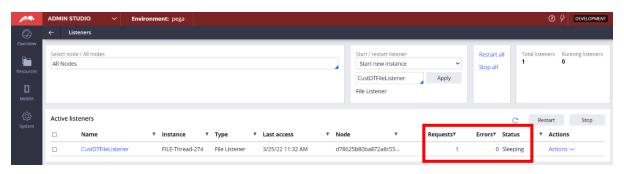


- As the file listener is running in background the operation is completed and data is stored into the data type.
- Now open Admin Studio and refresh the listener

Before:



After:



• Now we can see that number of requests is '1'. So successfully stored the CSV excel file data to Customer data type.

