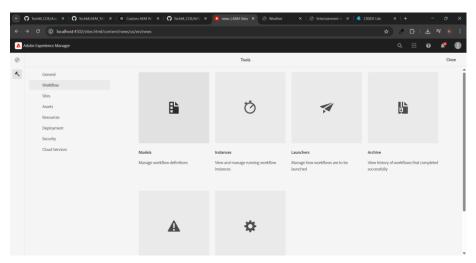
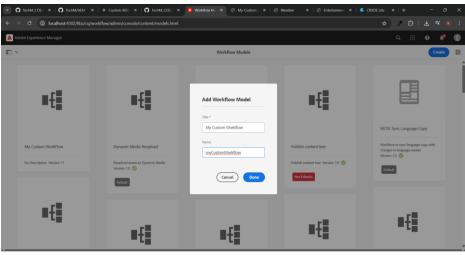
## 1.Create Custom Workflow (my custom workflow)

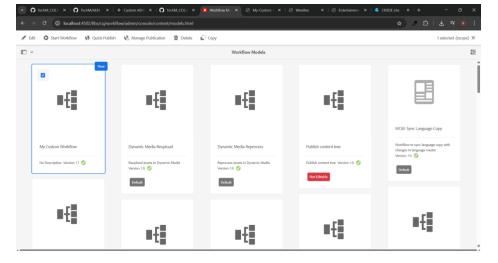
Go to Tools  $\rightarrow$  Workflow  $\rightarrow$  Models

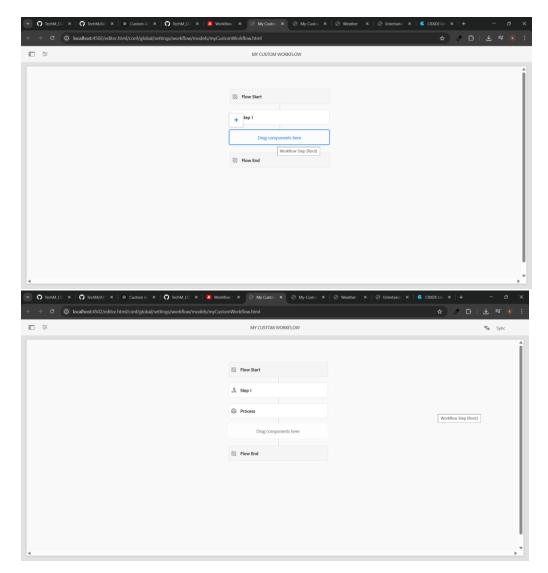
Click on Create → Create Model.

Enter the name as my-custom-workflow and a title like "My Custom Workflow". Click Done.





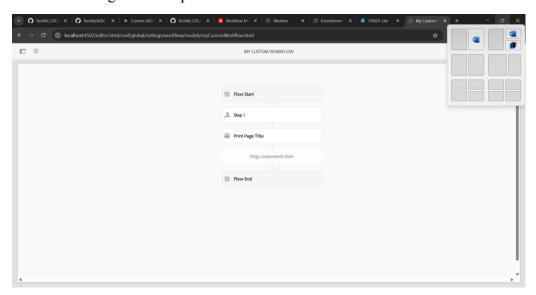




# 2.Create custom workflow process and print the page title in logs and run this workflow in page so that it can give some metadata in logs

Configure the Process Step: In Process Tab: Provide a custom class name like com.example.core.workflows.PrintPageTitleProcess

Title: "Print Page Title Step"



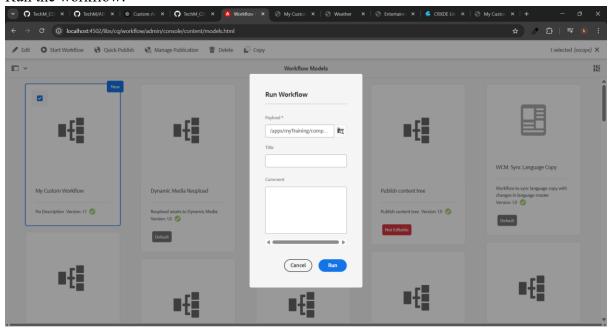
#### Create a Workflow Process Java Class

#### Go to AEM project:

/core/src/main/java/com/example/core/workflows/PrintPageTitleProcess.java

```
@Component(service = WorkflowProcess.class, property = {"process.label=Print Page
Title"})
public class PrintPageTitleProcess implements WorkflowProcess {
  private static final Logger LOG = LoggerFactory.getLogger(PrintPageTitleProcess.class);
  @Override
  public void execute(WorkItem workItem, WorkflowSession workflowSession,
MetaDataMap metaDataMap) {
    try {
       String path = workItem.getWorkflowData().getPayload().toString();
       ResourceResolver resolver = workflowSession.adaptTo(ResourceResolver.class);
       if (resolver != null) {
         Resource resource = resolver.getResource(path + "/jcr:content");
         if (resource != null) {
            String title = resource.getValueMap().get("jcr:title", String.class);
            LOG.info("Page Title: {}", title);
            LOG.warn("Resource not found at: {}", path);
    } catch (Exception e) {
       LOG.error("Error executing workflow process: ", e);
  }
```

#### Run the workflow:



#### 3. Create Event handler in aem and print the resource path in logs.

Create a java file named CustomeventHandler.java

```
C:\Users\krish\training\aem\codebase\myTraining\core\src\main\java\com\myTraining\core\li
steners\CustomeventHandler.java
@Component(
service = EventHandler.class,
immediate = true,
property = {
EventConstants.EVENT_TOPIC + "=" + SlingConstants.TOPIC_RESOURCE_ADDED } )
public class ResourceEventHandler implements EventHandler {
private static final Logger LOG = LoggerFactory.getLogger(ResourceEventHandler.class);
@Override
public void handleEvent(Event event) {
String resourcePath = (String) event.getProperty(SlingConstants.PROPERTY PATH);
LOG.info("Resource added at path: {}", resourcePath);
} }
4.create sling job to print hello world message in logs:
Create HelloWorldSlingJob.java file inside the following path
core/src/main/java/myTraining/jobs/HelloWorldSlingJob.java
Package com.muTraining.jobs
import org.apache.sling.event.jobs.Job;
import org.apache.sling.event.jobs.consumer.JobConsumer;
import org.osgi.service.component.annotations.Component;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
@Component(service = JobConsumer.class, property =
{"job.topics=custom/job/helloworld"})
public class CustomSlingJob implements JobConsumer {
private static final Logger LOG = LoggerFactory.getLogger(CustomSlingJob.class);
@Override
public JobResult process (Job job) {
LOG.info("Hello World from Sling Job!");
return JobResult.OK;
} }
```



## 5. Create one schedular to print the yellow world in logs in every 5 mins through custom configuration using cron expression.

```
package com.myTraining .core.jobs;
import org.apache.sling.commons.scheduler.Scheduler;
import org.osgi.service.component.annotations.Activate;
import org.osgi.service.component.annotations.Component;
import org.osgi.service.component.annotations.Reference;
import org.osgi.service.metatype.annotations.Designate;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
@Component(service = Runnable.class, immediate = true, property = {
"scheduler.expression=0 */5 * * * ?", "scheduler.concurrent=false"})
@Designate(ocd = YellowWorldScheduler.Config.class)
public class YellowWorldScheduler implements Runnable {
private static final Logger LOG = LoggerFactory.getLogger(YellowWorldScheduler.class);
@Reference
private Scheduler scheduler;
@Activate
protected void activate() {
LOG.info("Yellow World Scheduler Activated");
}
@Override
public void run() {
LOG.info("Yellow World from Scheduler!"); }}
```

# 6. Create 3 users and add them in a group(Dev author create this new group) and give permission to read only for /content and /dam folder only and they should have replication access as well.

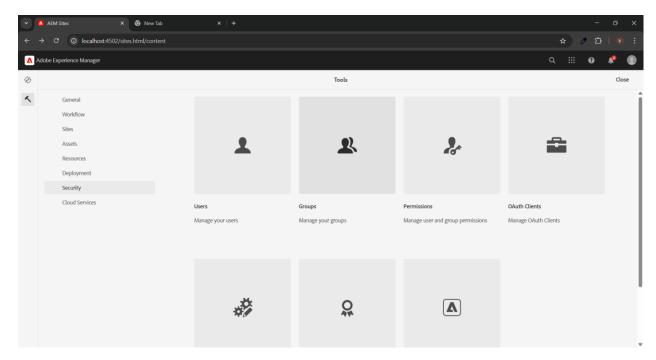
Go to AEM as an Administrator (<a href="http://localhost:4502">http://localhost:4502</a>).

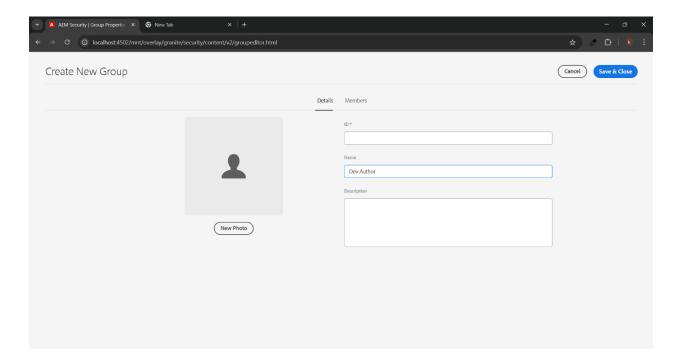
Navigate to Tools  $\rightarrow$  Security  $\rightarrow$  Groups

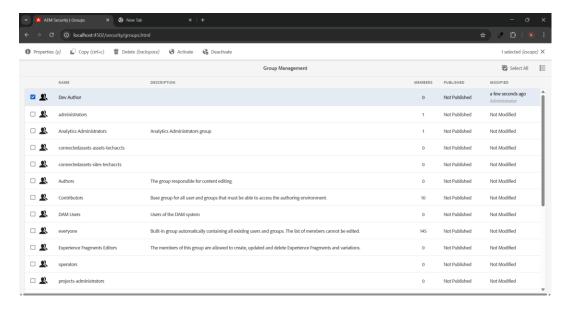
Click Create  $\rightarrow$  Create Group.

Enter Group Name: eg:dev-authors

Click Save.



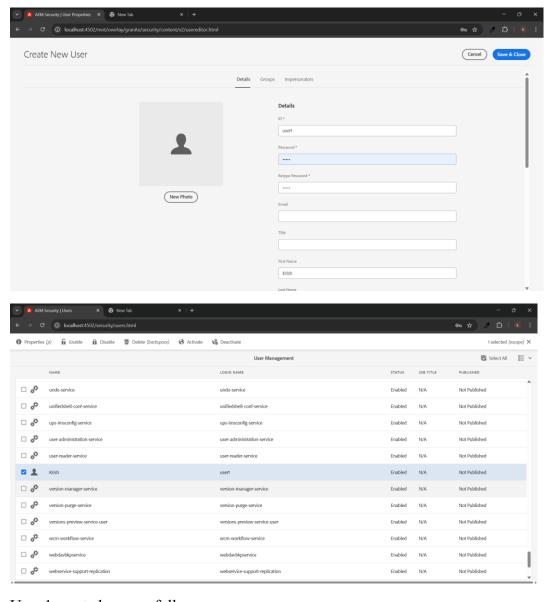




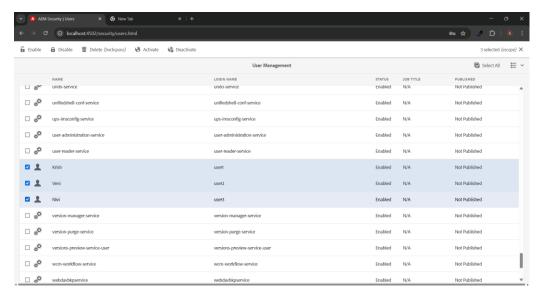
Group created successfully.

## Create 3 New Users and Add Them to the Group

Navigate to Tools  $\rightarrow$  Security  $\rightarrow$  Users . Click Create  $\rightarrow$  Create User.



User 1 created successfully



#### **Assign Permissions to the Group:**

Navigate to Tools  $\rightarrow$  Security  $\rightarrow$  Permissions.

Click on the group and set Read-Only Access.

