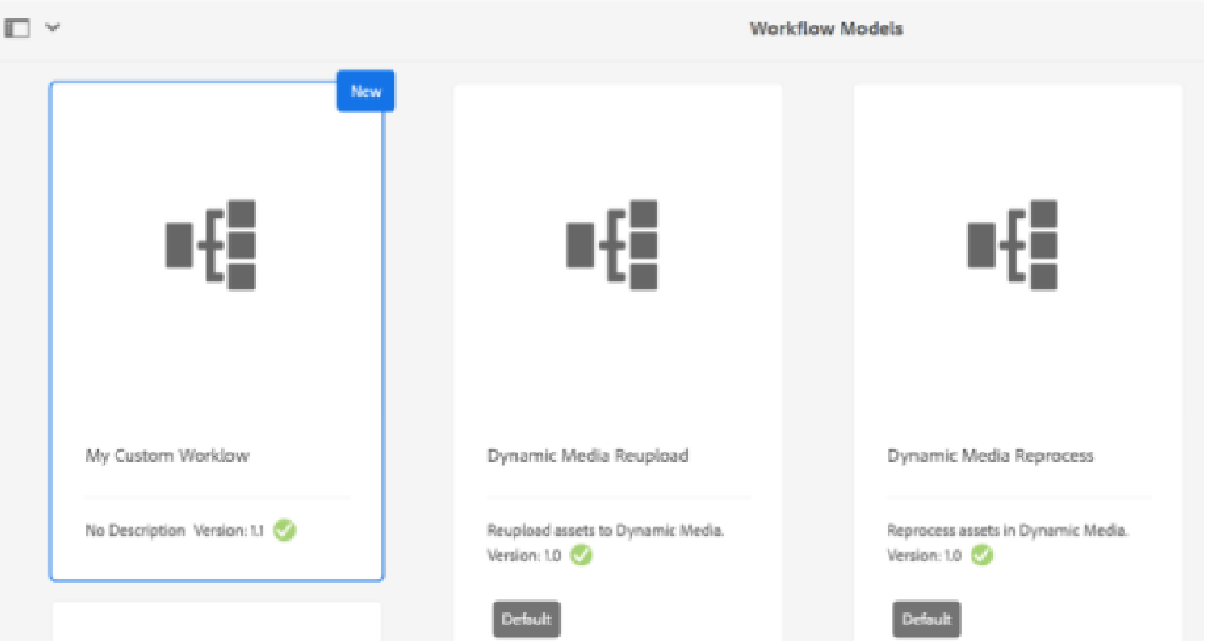
Implementing Custom Workflow, Event Handler, Sling Job, Scheduler, and User Permissions in AEM

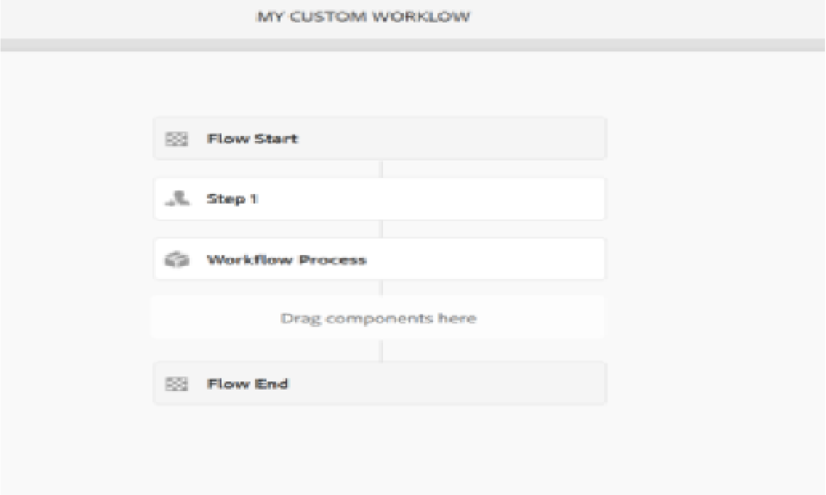
Create a Custom Workflow ("My Custom Workflow")

1. Navigate to Tools → Workflow → Models in AEM.
2. Click Create → Create Workflow Model.
3. Name it My Custom Workflow and open it.
4. Drag a Process Step and configure it to call the custom workflow process.
5. Save and activate the workflow.


Workflow Models
New
My Custom Worklow
No Description Version: 1.1
Dynamic Media Reupload
Reupload assets to Dynamic Media. Version: 1.0
Default
Dynamic Media Reprocess
Reprocess assets in Dynamic Media. Version: 1.0
Default

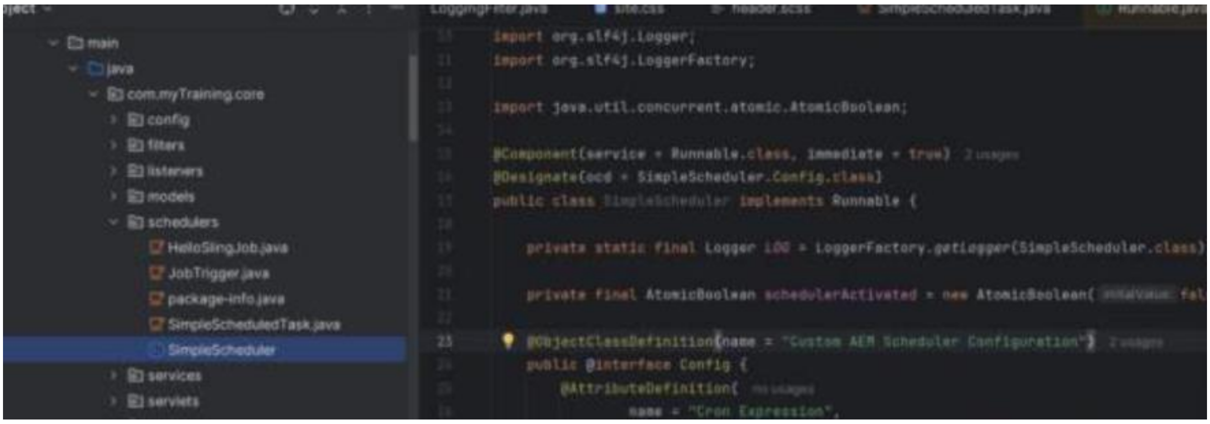
Create a Custom Workflow Process to Print Page Title in Logs

```
@Component(service = WorkflowProcess.class, property = { "process.label=Custom
Workflow Process" })
public class CustomWorkflowProcess implements WorkflowProcess {
    private static final Logger LOG =
LoggerFactory.getLogger(CustomWorkflowProcess.class);

    @Override
}

    public void execute(WorkItem workItem, WorkflowSession workflowSession,
MetaDataMap metaDataMap) {
        String pagePath = workItem.getWorkflowData().getPayload().toString();
        LOG.info("Executing Workflow for Page: " + pagePath);
    }
}
```



Create an Event Handler to Print Resource Path in Logs

```
@Component(service = EventHandler.class, immediate = true, property = {
EventConstants.EVENT_TOPIC + "=" + PageEvent.EVENT_TOPIC })
public class CustomEventHandler implements EventHandler {
    private static final Logger LOG = LoggerFactory.getLogger(CustomEventHandler.class);

    @Override
    public void handleEvent(Event event) {
        PageModification modification =
PageEvent.fromEvent(event).getModifications().iterator().next();
        LOG.info("Page Event Detected: " + modification.getPath());
    }
}
```



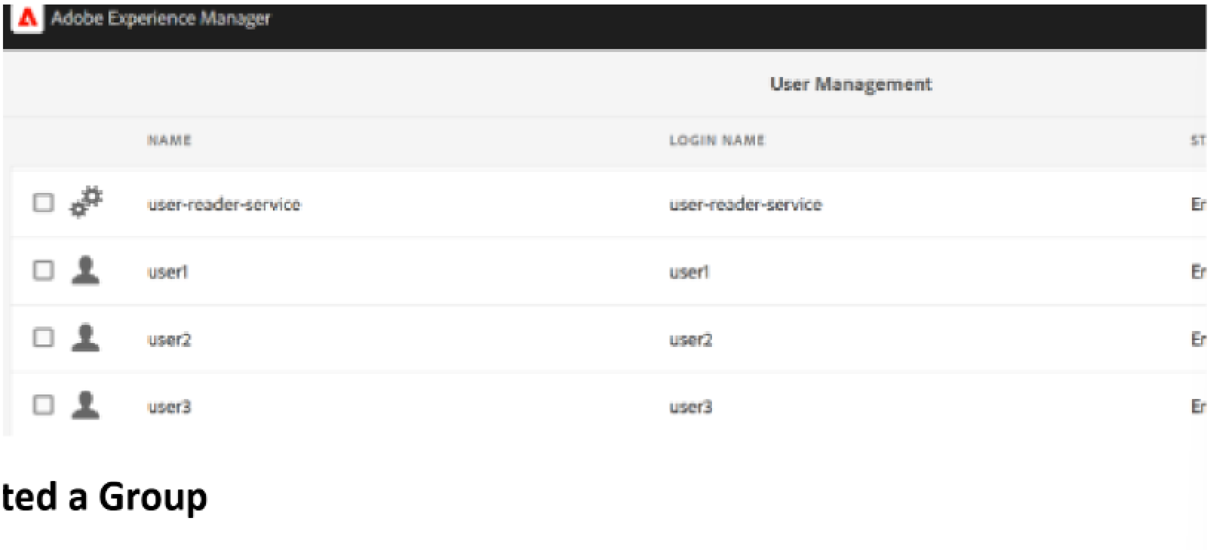
```
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

import java.util.concurrent.atomic.AtomicBoolean;

@Component(service = Runnable.class, immediate = true)
@Designate(ocd = SimpleScheduler.Config.class)
public class SimpleScheduler implements Runnable {

    private static final Logger LOG = LoggerFactory.getLogger(SimpleScheduler.class)

    private final AtomicBoolean schedulerActivated = new AtomicBoolean( initialValue: fal

    @ObjectClassDefinition(name = "Custom AEM Scheduler Configuration")
    public @interface Config {
        @AttributeDefinition(
                name = "Cron Expression",
```

Create a Sling Job to Print "Hello World" in Logs

```
@Component(service = JobConsumer.class, property = {
JobConsumer.PROPERTY_TOPICS + "=custom/slingjob" })
public class HelloWorldSlingJob implements JobConsumer {
   private static final Logger LOG = LoggerFactory.getLogger(HelloWorldSlingJob.class);


   @Override
   public JobResult process(Job job) {
      LOG.info("Hello World from Sling Job!");
      return JobResult.OK;
   }
}
@Reference
private JobManager jobManager;


public void triggerJob() {
   jobManager.addJob("custom/slingjob", null);
}
```

Create a Scheduler to Print "Yellow World" Every 5 Minutes

```
@Component(service = Runnable.class, immediate = true, property = {
    "scheduler.expression=*/5 * * * * ?", // Runs every 5 minutes
    "scheduler.concurrent=false"
})
public class YellowWorldScheduler implements Runnable {
    private static final Logger LOG = LoggerFactory.getLogger(YellowWorldScheduler.class);

    @Override
    public void run() {
        LOG.info("Yellow World from Scheduler!");
    }
}
```



User Management

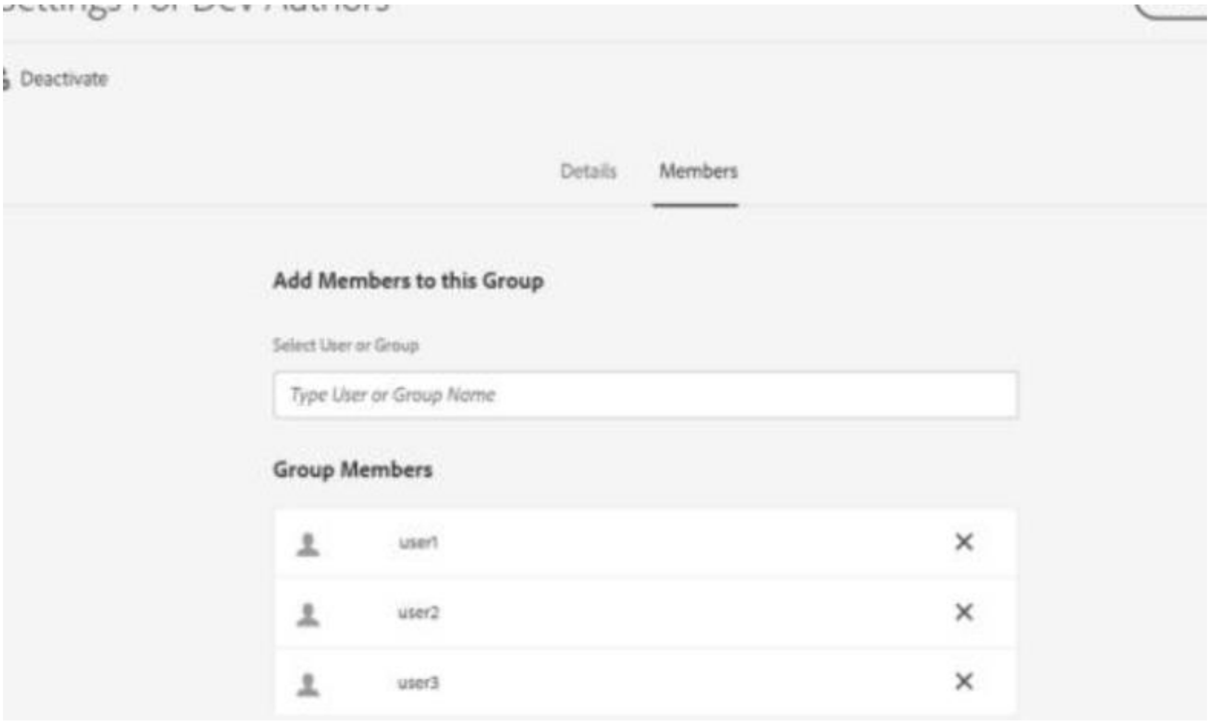
	NAME	LOGIN NAME	ST
□	user-reader-service	user-reader-service	Er
□	user1	user1	Er
□	user2	user2	Er
□	user3	user3	Er

ted a Group

Create Users, Group, and Set Permissions

1. Navigate to Tools → Security → Users.
2. Create 3 users (user1, user2, user3).
3. Navigate to Groups → Create a new group Dev Author.
4. Add the 3 users to the group.
5. Set permissions for the Dev Author group:
    - Read-Only Access to /content and /dam.

- Replication Access under Permissions → Replication Rights.



Add Members to this Group

Select User or Group

Type User or Group Name

Group Members

user1

user2

user3