

AEM TASK - 6

1. Create a Custom Workflow (my custom workflow)

1. Navigate to AEM Workflow Models:

- a. Go to **Tools > Workflow > Models** in AEM.
- b. Click **Create > Create Model** and name it **my-custom-workflow**.
- c. Open the model and click **Edit**.

2. Add a Custom Workflow Process Step:

- a. Drag **Process Step** from the side panel into the workflow.
- b. Click on the process step and configure it:
 - i. Set **Process** to your custom workflow process.
 - ii. Click **OK** and then **Save & Close**.

2. Create a Custom Workflow Process & Print Page Title in Logs

1. Create a Workflow Process Implementation in Java:

- a. Create a new Java class implementing WorkflowProcess:

```
@Component(service = WorkflowProcess.class, property =
{ "process.label=My Custom Workflow Process" })
public class MyCustomWorkflowProcess implements WorkflowProcess {

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

    @Override
    public void execute(WorkItem workItem, WorkflowSession
workflowSession, MetaDataMap metaDataMap) throws WorkflowException {
        String payloadPath =
workItem.getWorkflowData().getPayload().toString();
        LOG.info("Workflow started for page: {}", payloadPath);

        try (ResourceResolver resolver =
workflowSession.adaptTo(ResourceResolver.class)) {
            PageManager pageManager =
```

```

resolver.adaptTo(PageManager.class);
    Page page = pageManager.getPage(payloadPath);
    if (page != null) {
        LOG.info("Page Title: {}", page.getTitle());
    }
} catch (Exception e) {
    LOG.error("Error fetching page title", e);
}
}
}

```

2. Deploy and Use the Workflow:

- a. Deploy the bundle to AEM.
- b. Assign this process to the workflow step you created.
- c. Activate the workflow on a page and check logs.

3. Create an Event Handler in AEM & Print Resource Path in Logs

1. Create a Sling Event Listener for Resource Events:

```

@Component(service = EventHandler.class, immediate = true,
    property = { EventConstants.EVENT_TOPIC + "=" +
PageEvent.EVENT_TOPIC })
public class MyEventHandler implements EventHandler {

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

    @Override
    public void handleEvent(Event event) {
        String[] paths = (String[]) event.getProperty("path");
        if (paths != null) {
            for (String path : paths) {
                LOG.info("Resource path: {}", path);
            }
        }
    }
}

```

```
}
```

2. Deploy and Test the Event Handler:

- a. Check logs when a page is created, modified, or deleted.

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

1. Create a Sling Job Implementation:

```
@Component(service = JobConsumer.class,
            property = { JobConsumer.PROPERTY_TOPICS +
"=my/custom/job" })
public class HelloWorldJobConsumer implements JobConsumer {

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

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

2. Trigger the Job:

- a. Run from an OSGi console or a servlet:

```
@Component(service = Servlet.class,
            property = { "sling.servlet.paths=/bin/runjob" })
public class JobTriggerServlet extends SlingSafeMethodsServlet {

    @Reference
    private JobManager jobManager;

    @Override
    protected void doGet(SlingHttpServletRequest request,
```

```

SlingHttpServletResponse response) throws IOException {
    jobManager.addJob("my/custom/job", new HashMap<>());
    response.getWriter().write("Job triggered!");
}
}

```

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

1. Implement an OSGi Scheduler in Java:

```

@Designate(ocd = MyScheduler.Config.class)
@Component(service = Runnable.class, immediate = true,
    property = { "scheduler.expression=0 0/5 * * * ?" })
public class MyScheduler implements Runnable {

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

    @ObjectClassDefinition(name = "My Custom Scheduler")
    public @interface Config {
        @AttributeDefinition(name = "Cron Expression")
        String scheduler_expression() default "0 0/5 * * * ?";
    }

    @Activate
    protected void activate(Config config) {
        LOG.info("Scheduler activated");
    }

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

```

2. Deploy & Verify Logs:

- a. Every 5 minutes, it should log "Yellow World".

6. Create 3 Users, a Group, and Assign Permissions

1. Create Users:

- a. Go to **Tools > Security > Users** in AEM.
- b. Create **user1, user2, user3**.

2. Create a New Group:

- a. Go to **Tools > Security > Groups**.
- b. Create a new group called **Dev Author**.

3. Add Users to the Group:

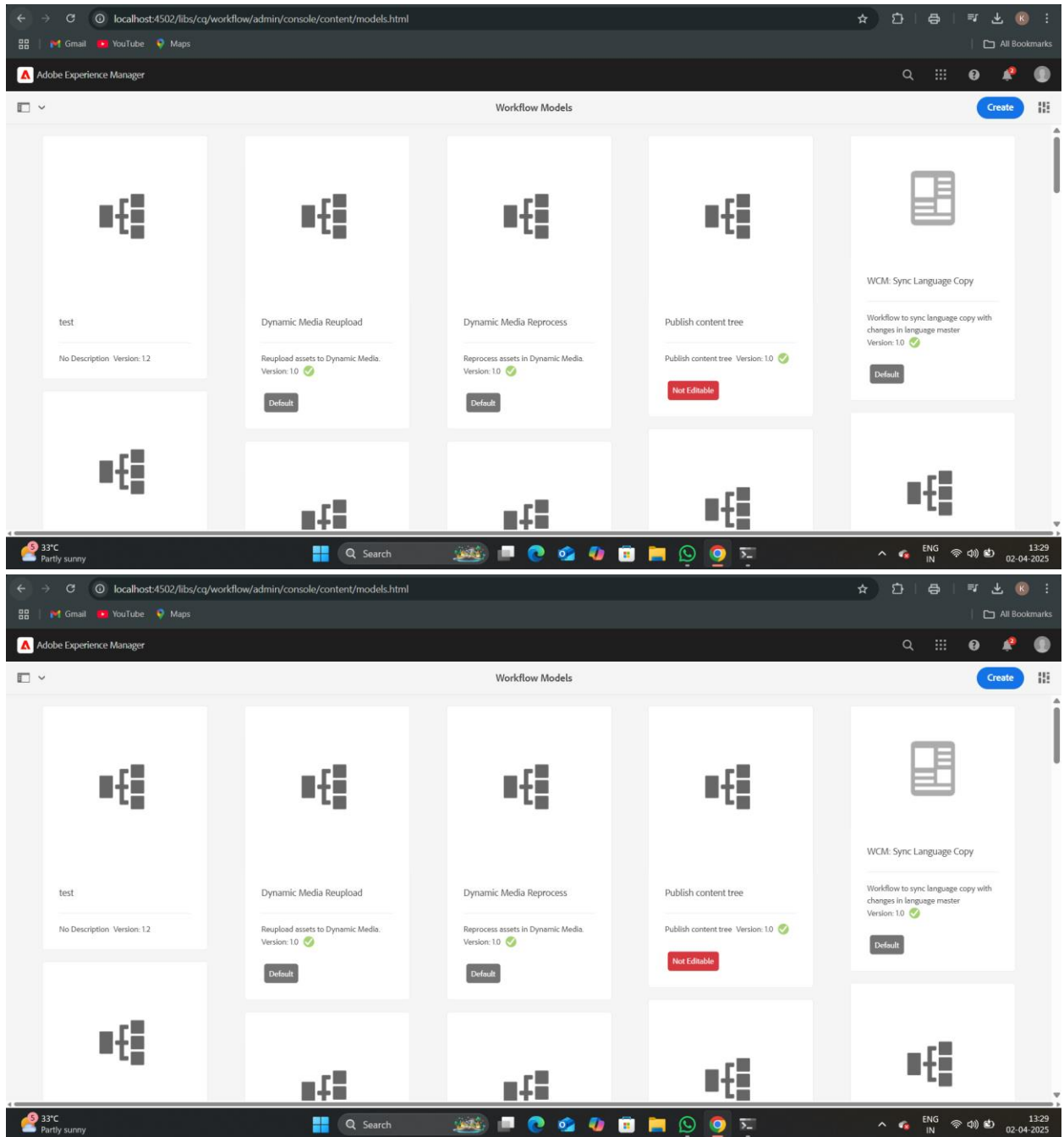
- a. Open the **Dev Author** group and add **user1, user2, user3**.

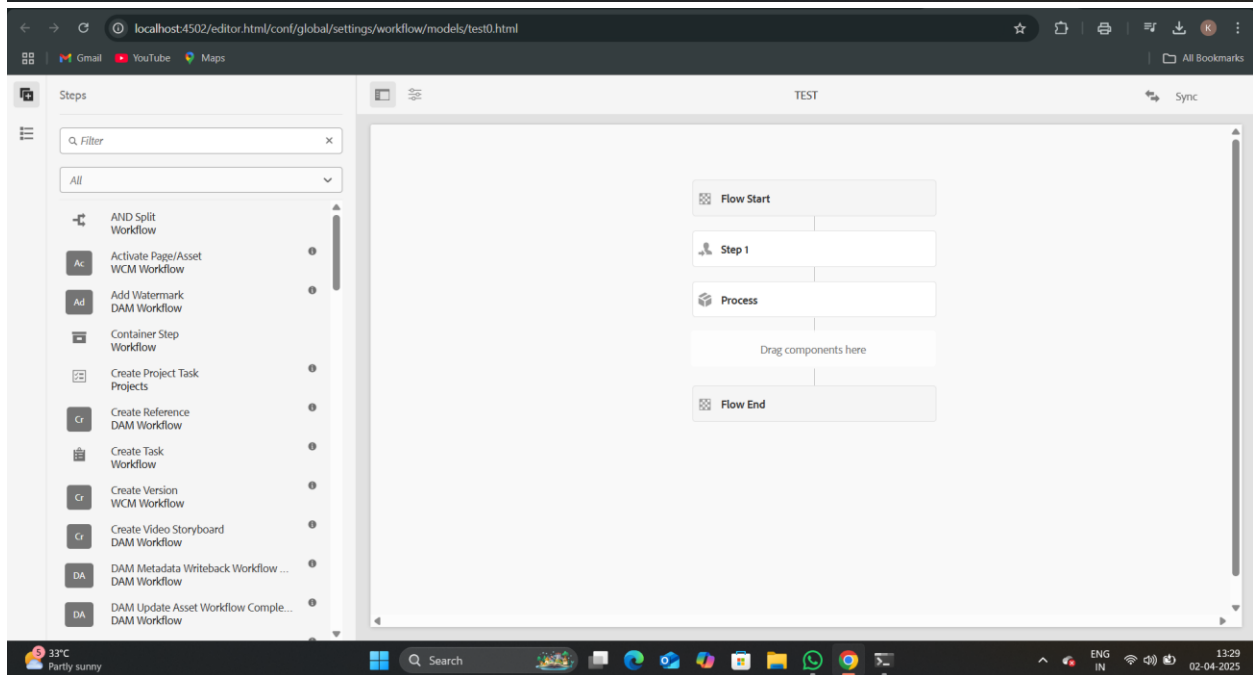
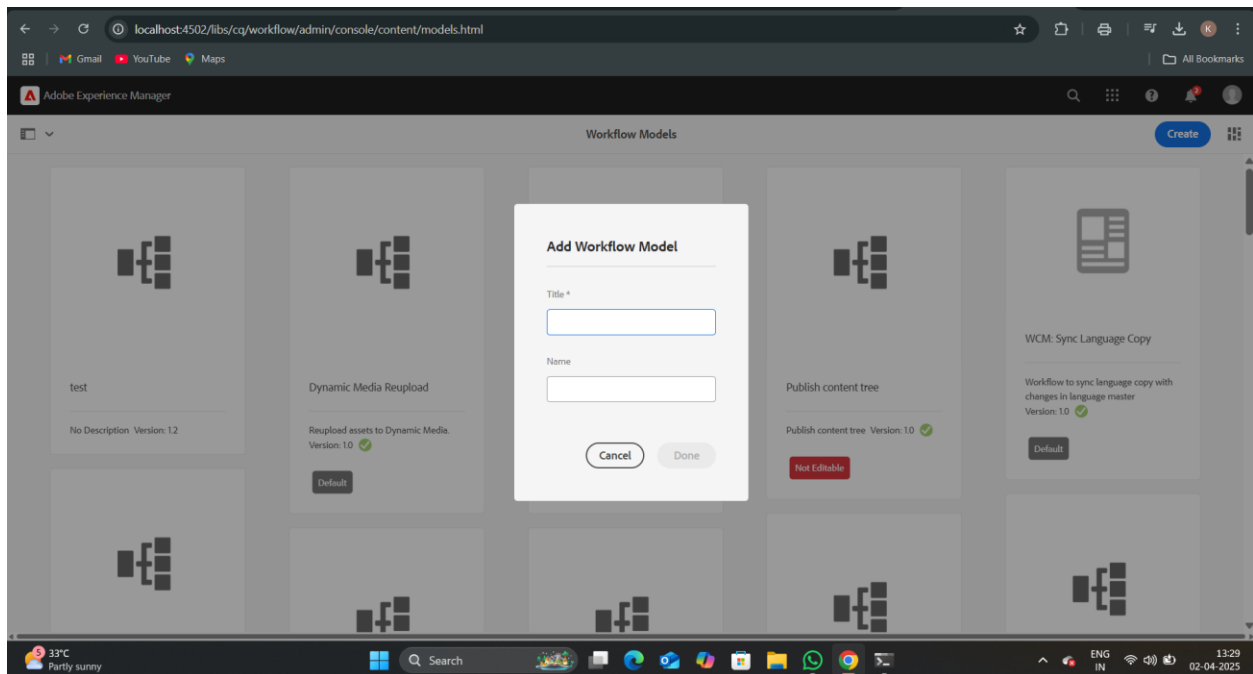
4. Assign Permissions:

- a. Go to **Permissions Console**.
- b. Select **Dev Author** and set:
 - i. **Read** access for **/content** and **/dam**.
 - ii. **Replication** permissions under **Miscellaneous**.

Final Verification Steps

- **Workflow:** Run it on a page and check logs for title.
- **Event Handler:** Modify a page and check logs for resource path.
- **Sling Job:** Trigger manually and check logs.
- **Scheduler:** Wait for logs every 5 minutes.
- **User Access:** Log in with a new user and ensure they can only read **/content** and **/dam** and replicate.





localhost:4502/security/groups.html

GmailYouTubeMaps

Adobe Experience Manager

Group Management

Select AllCreate

NAME	DESCRIPTION	MEMBERS	PUBLISHED	MODIFIED
<input type="checkbox"/> test		3	3/25/25, 8:02 PM Administrator	3/25/25, 2:34 PM Administrator
<input type="checkbox"/> administrators		1	Not Published	Not Modified
<input type="checkbox"/> Analytics Administrators	Analytics Administrators group	1	Not Published	Not Modified
<input type="checkbox"/> connectedassets-assets-techaccts		0	Not Published	Not Modified
<input type="checkbox"/> connectedassets-sites-techaccts		0	Not Published	Not Modified
<input type="checkbox"/> Authors	The group responsible for content editing.	0	Not Published	Not Modified
<input type="checkbox"/> Contributors	Base group for all user and groups that must be able to access the authoring environment.	12	Not Published	Not Modified
<input type="checkbox"/> DAM Users	Users of the DAM system	0	Not Published	Not Modified
<input type="checkbox"/> everyone	Built-in group automatically containing all existing users and groups. The list of members cannot be edited.	148	Not Published	Not Modified
<input type="checkbox"/> Experience Fragments Editors	The members of this group are allowed to create, updated and delete Experience Fragments and variations.	0	Not Published	Not Modified
<input type="checkbox"/> operators		0	Not Published	Not Modified

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