25/03/2025 - TASKS

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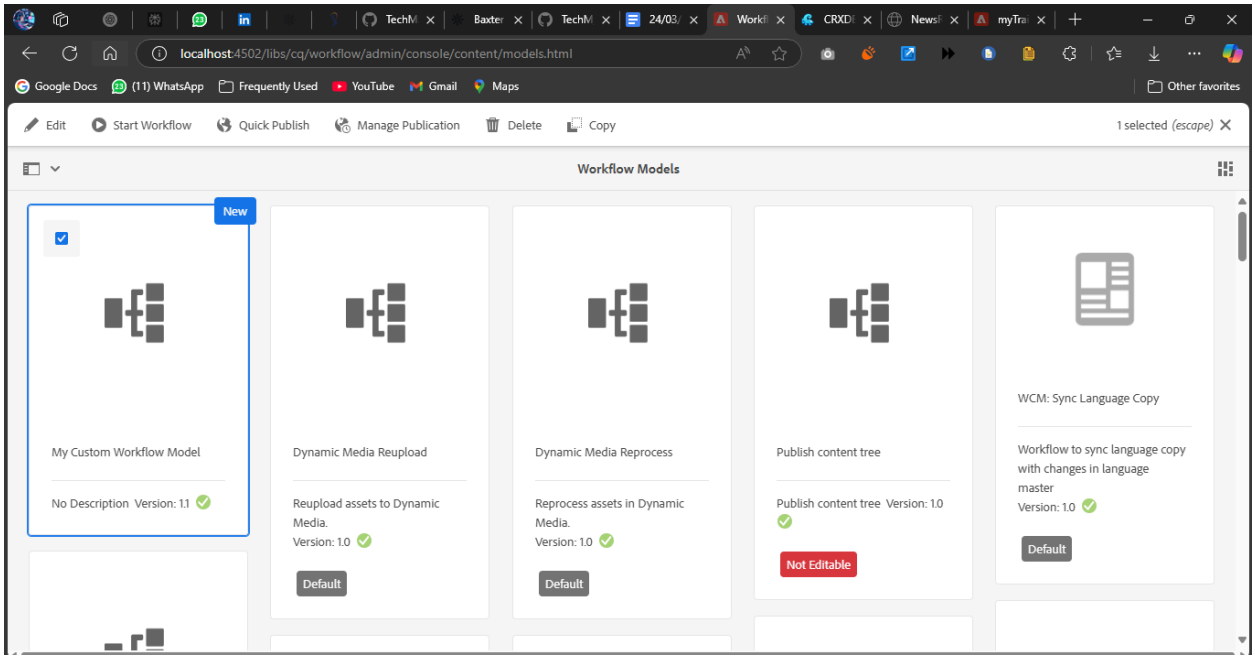
Create Custom Workflow Model

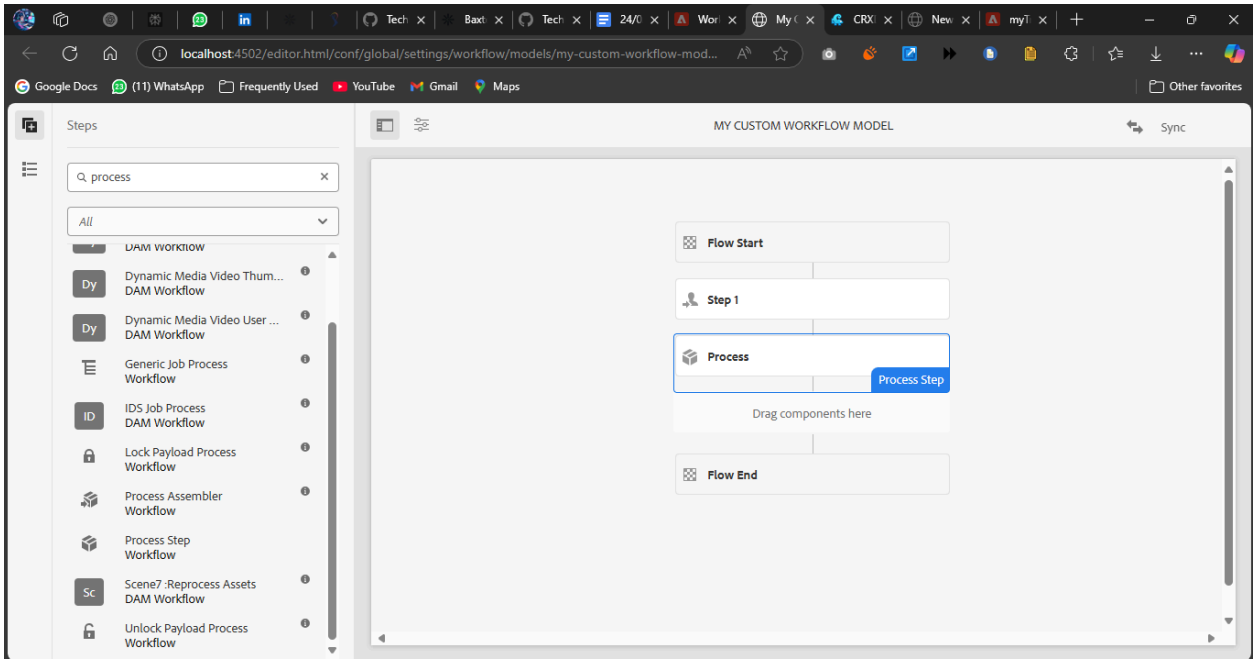
Steps:

1. Go to **AEM Start** → **Tools** → **Workflow** → **Models**.
2. Click on **Create** → **Create Model**.
3. Set the **Title** as `My Custom Workflow Model`.

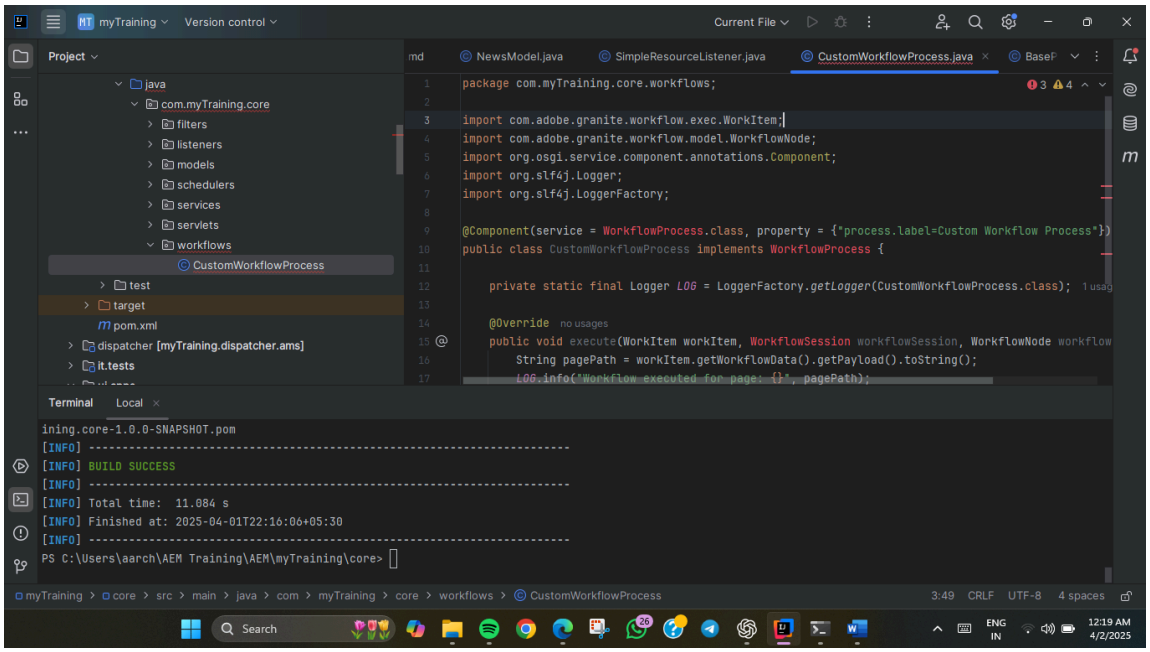
4. Open the model and click **Edit**.

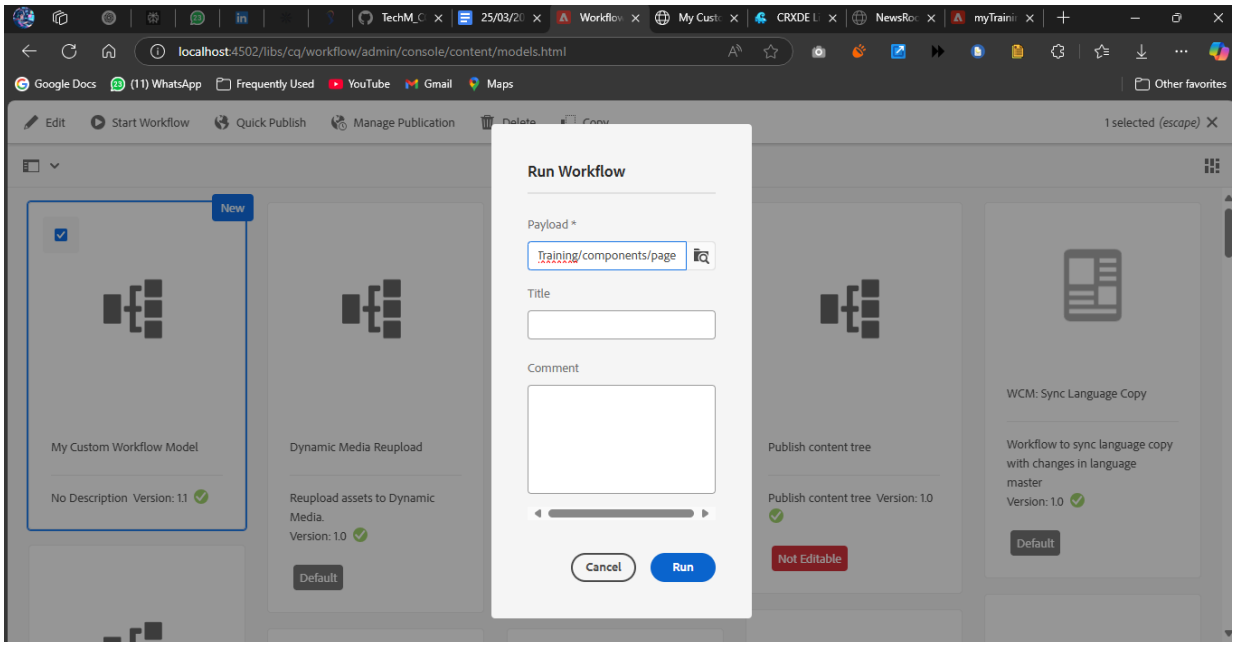


5. Drag and drop a **Process Step**.



6. In the Process Step configuration:
    - Set **Title** to `Custom Workflow Process`.
    - Set **Process** to the newly created `com.example.core.workflows.CustomWorkflowProcess`.





7. Save the model and close.

Create Event Handler

Steps:

1. Create a new Java class `CustomEventHandler.java` inside `com.example.core.listeners`.

```
package com.example.core.listeners;

import org.apache.sling.api.SlingConstants;
import org.osgi.service.component.annotations.Component;
import org.osgi.service.event.Event;
import org.osgi.service.event.EventHandler;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

@Component(service = EventHandler.class, immediate = true,
    property = {"event.topics=" + SlingConstants.TOPIC_RESOURCE_ADDED})
public class CustomEventHandler implements EventHandler {

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

    @Override
    public void handleEvent(Event event) {
        LOG.info("Resource added at: {}", event.getProperty("path"));
    }
}
```

2. Deploy and verify the logs when new resources are created in AEM.

Create Sling Job

Steps:

1. Create a new class `CustomSlingJob.java` inside `com.example.core.jobs`.

```
package com.example.core.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;
    }
}
```

2. Deploy the Sling Job and trigger it to test.

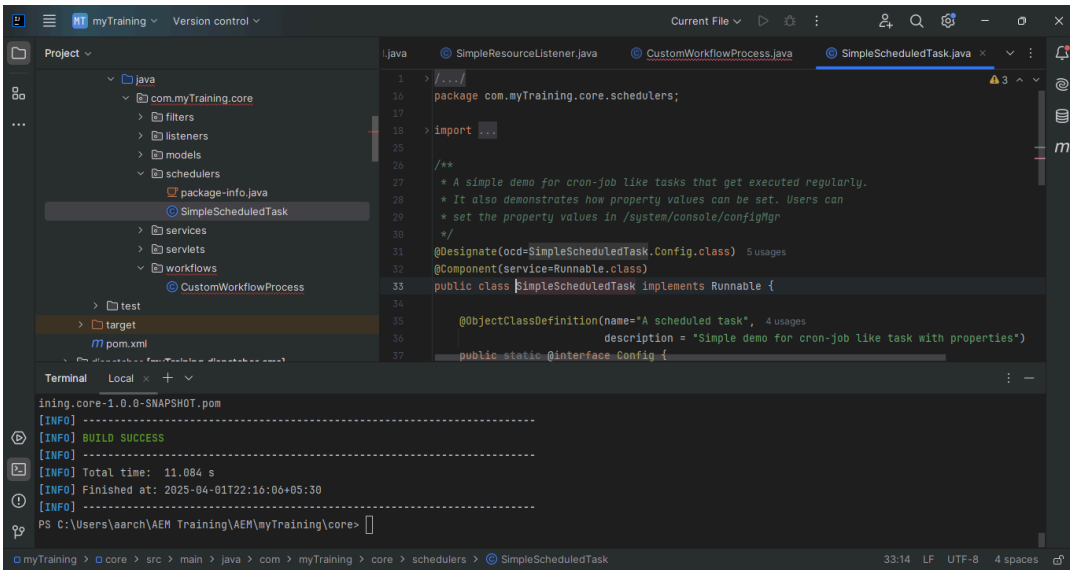
Create Scheduler

Steps:

1. Create the class `CustomScheduler.java` inside `com.example.core.schedulers`.

```
package com.example.core.schedulers;
import org.osgi.service.component.annotations.Activate;
import org.osgi.service.component.annotations.Component;
import org.osgi.service.component.annotations.Modified;
import org.osgi.service.component.annotations.ConfigurationPolicy;
import org.osgi.service.metatype.annotations.AttributeDefinition;
import org.osgi.service.metatype.annotations.ObjectClassDefinition;
import org.osgi.service.metatype.annotations.Designate;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

import java.util.concurrent.Executors;
```

```
import java.util.concurrent.ScheduledExecutorService;
import java.util.concurrent.TimeUnit;

@Component(service = Runnable.class, configurationPolicy = ConfigurationPolicy.REQUIRE,
immediate = true)
@Designate(ocd = CustomScheduler.Config.class)
public class CustomScheduler implements Runnable {

    private static final Logger LOG = LoggerFactory.getLogger(CustomScheduler.class);
    private final ScheduledExecutorService scheduler =
Executors.newSingleThreadScheduledExecutor();

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

    @Activate
    @Modified
    protected void activate(Config config) {
        scheduler.scheduleAtFixedRate(this, 0, 5, TimeUnit.MINUTES);
    }

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




```
}
```

Create Users & Group with Permissions

Steps:

1. Navigate to **AEM Start → Security → Users**.
2. Create three users: `user1`, `user2`, `user3`.
3. Navigate to **Groups → Create Group**: `Dev Author`.
4. Add the created users to the `Dev Author` group.