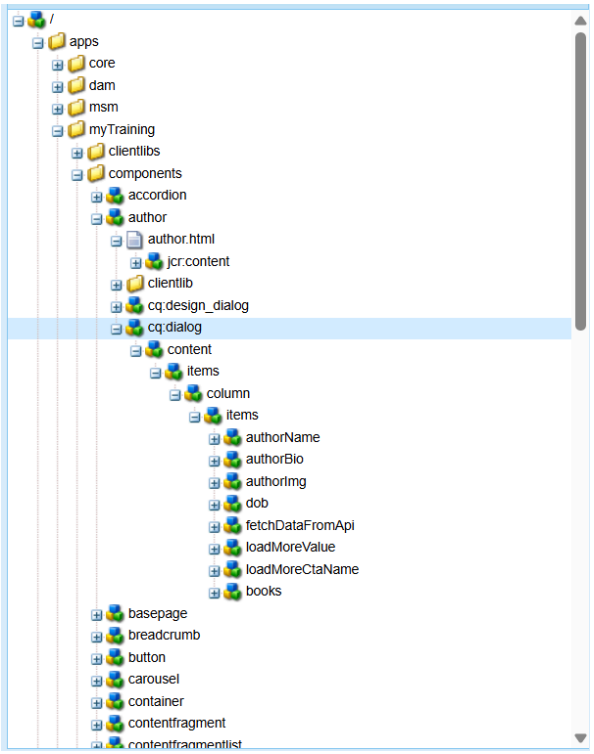
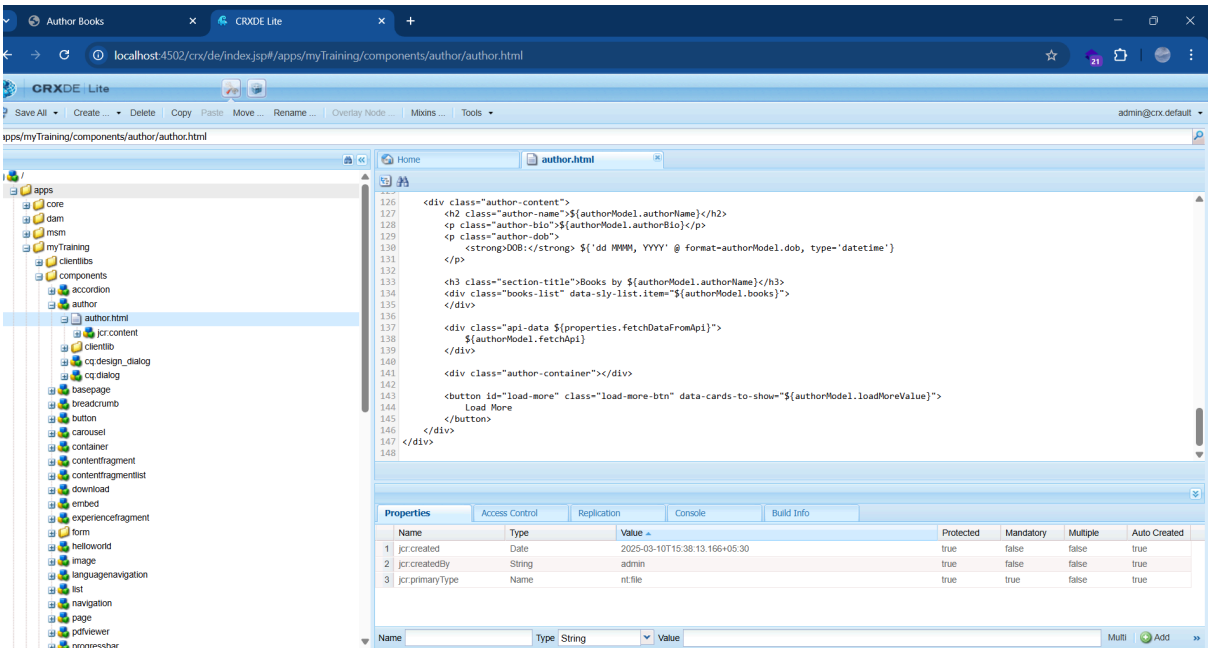
AEM TASK - 6

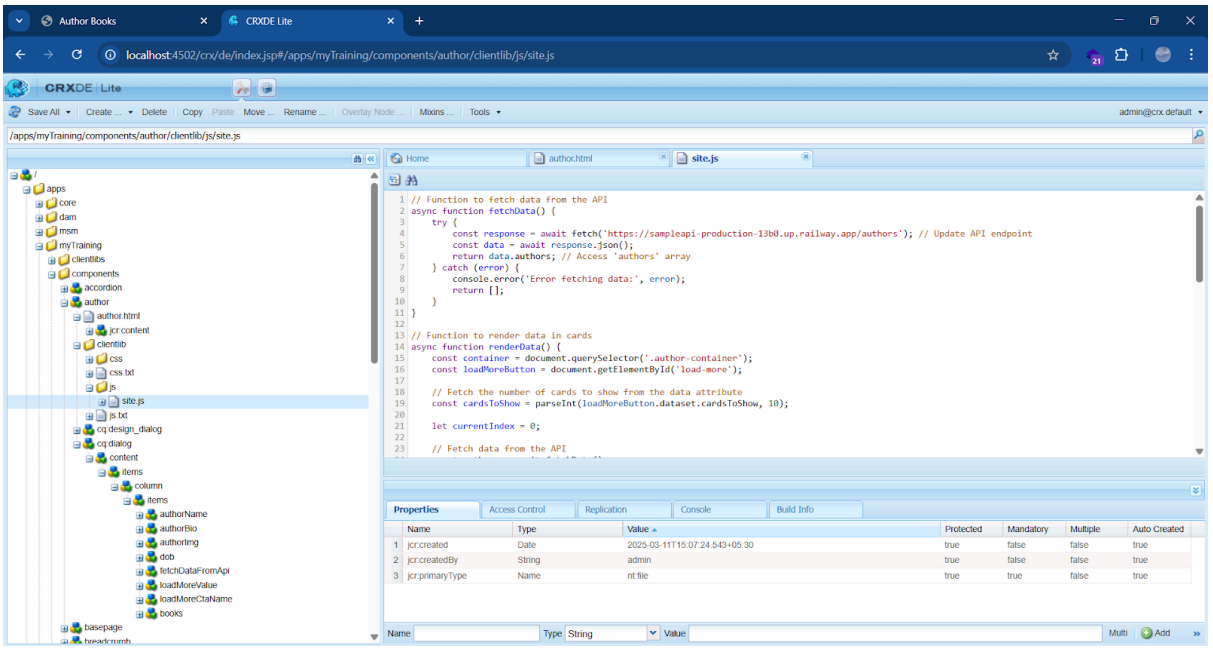
Creating author component for fetching card details:



The HTML file renders the book cards with details like image, title, description, and publish date:

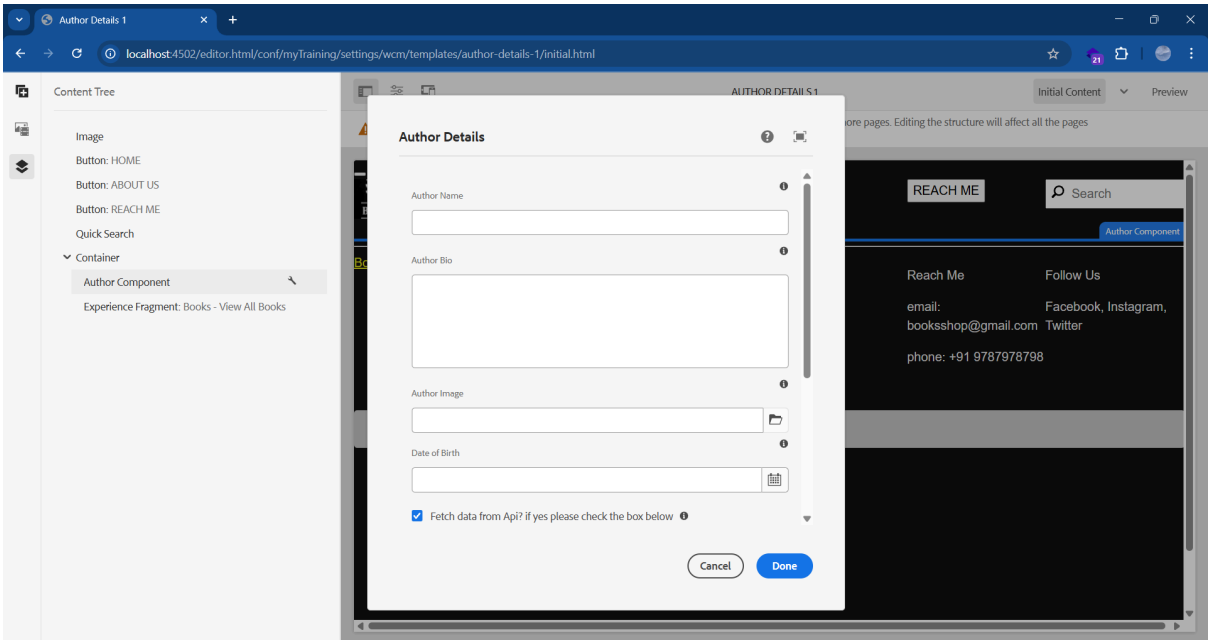


Adding site.js in clientlibs folder for fetching data using API url:

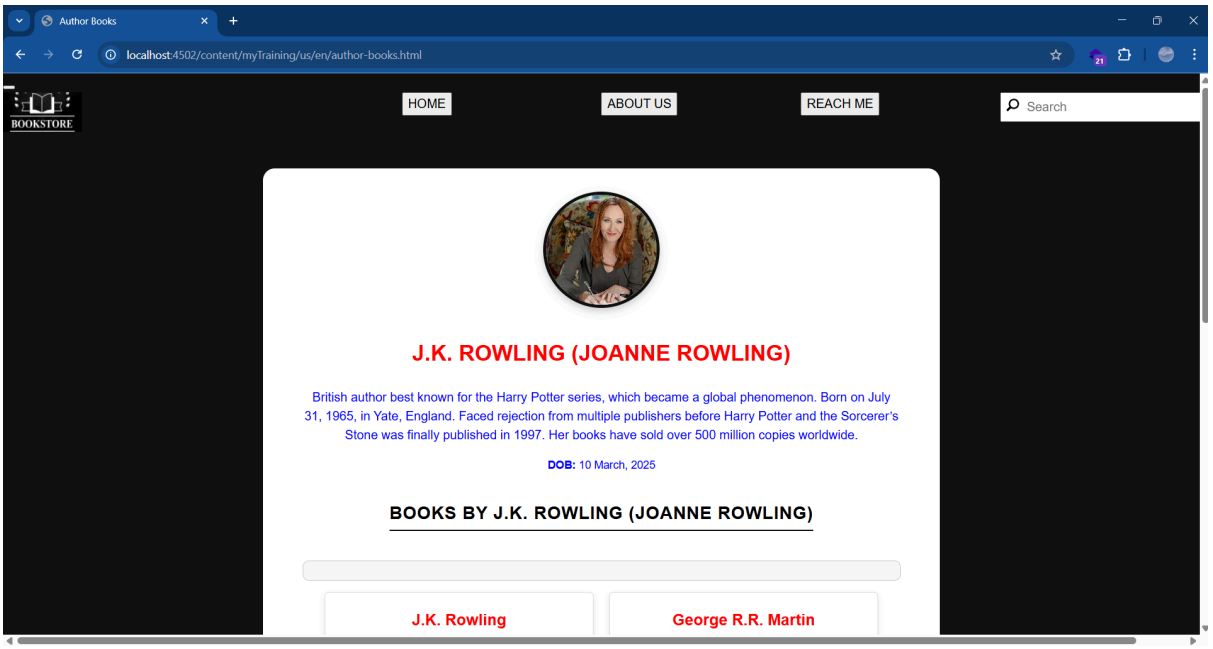


Author component in template:

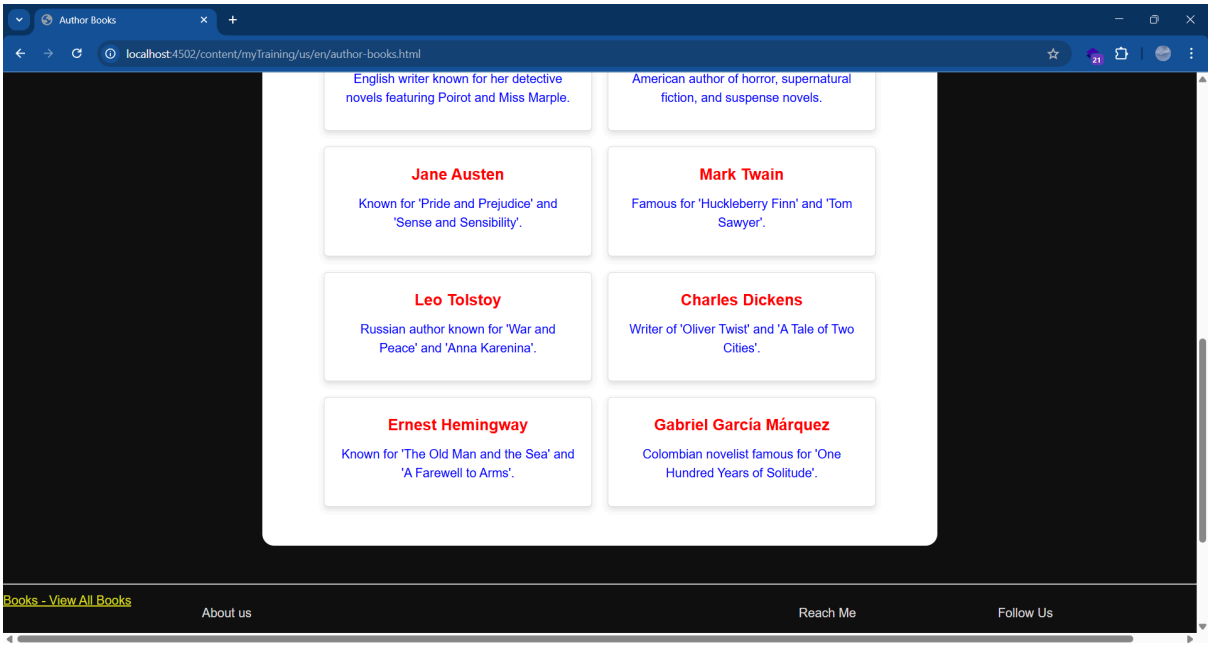
The below author component contains details of author name , author dob, and a checkbox for data fetching using Api.



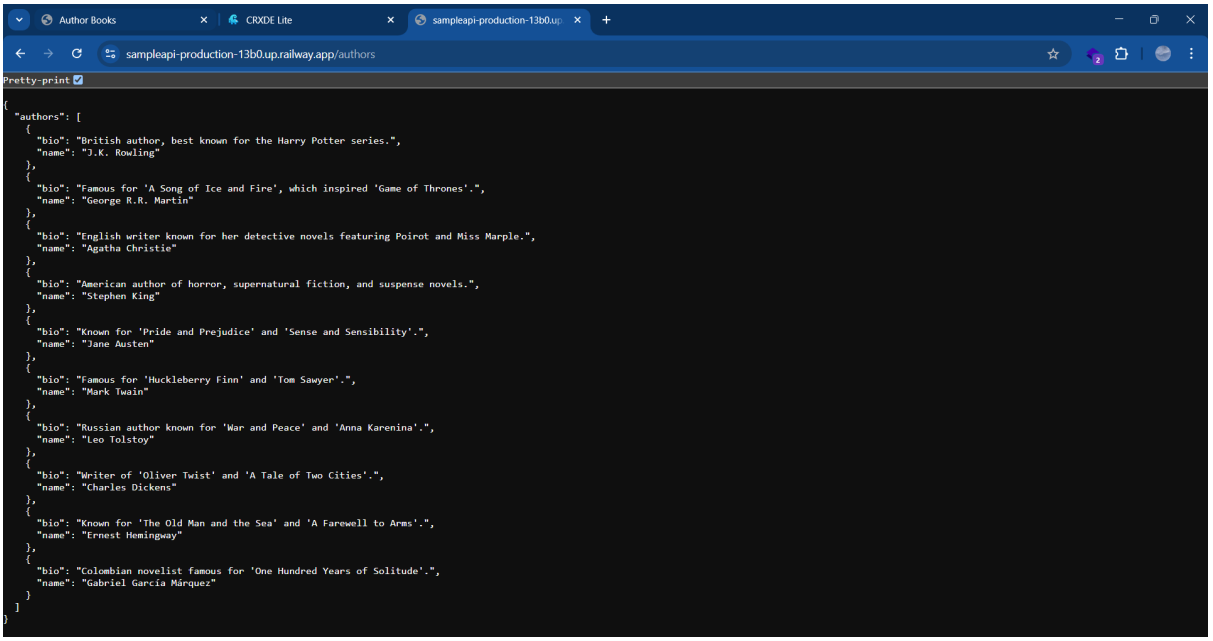
The author card details containing their name and bio:



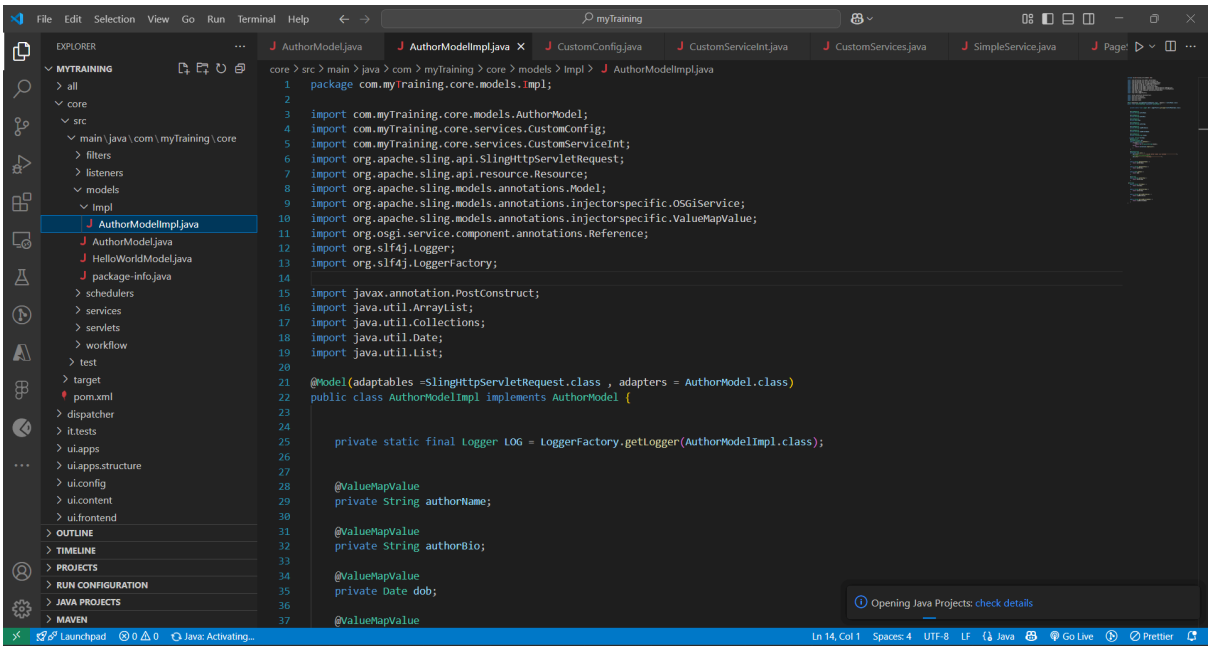
When we click load more we can get more data from the api, if it has it:



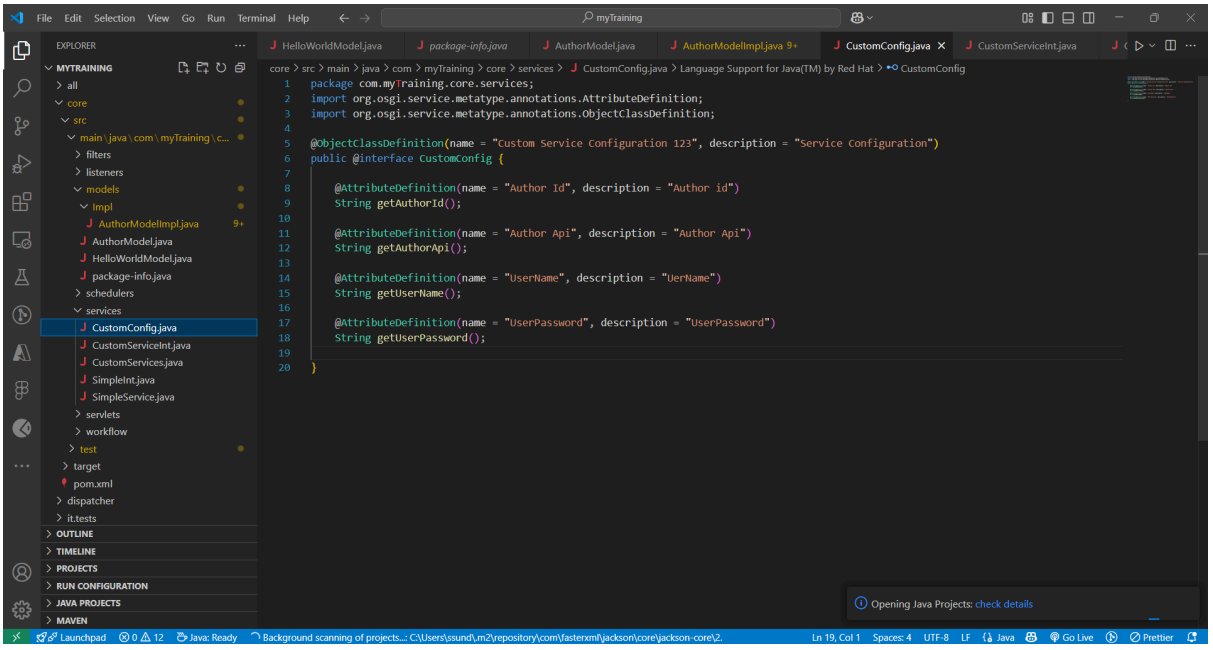
Used a custom API to get the data to the aem:

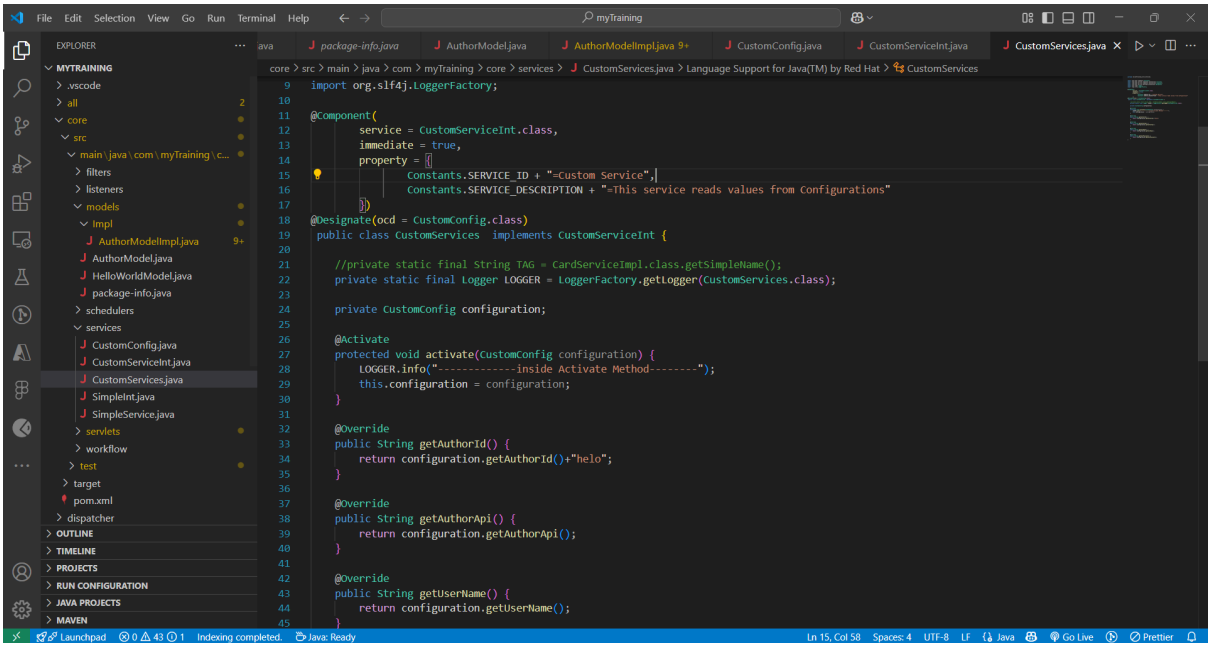


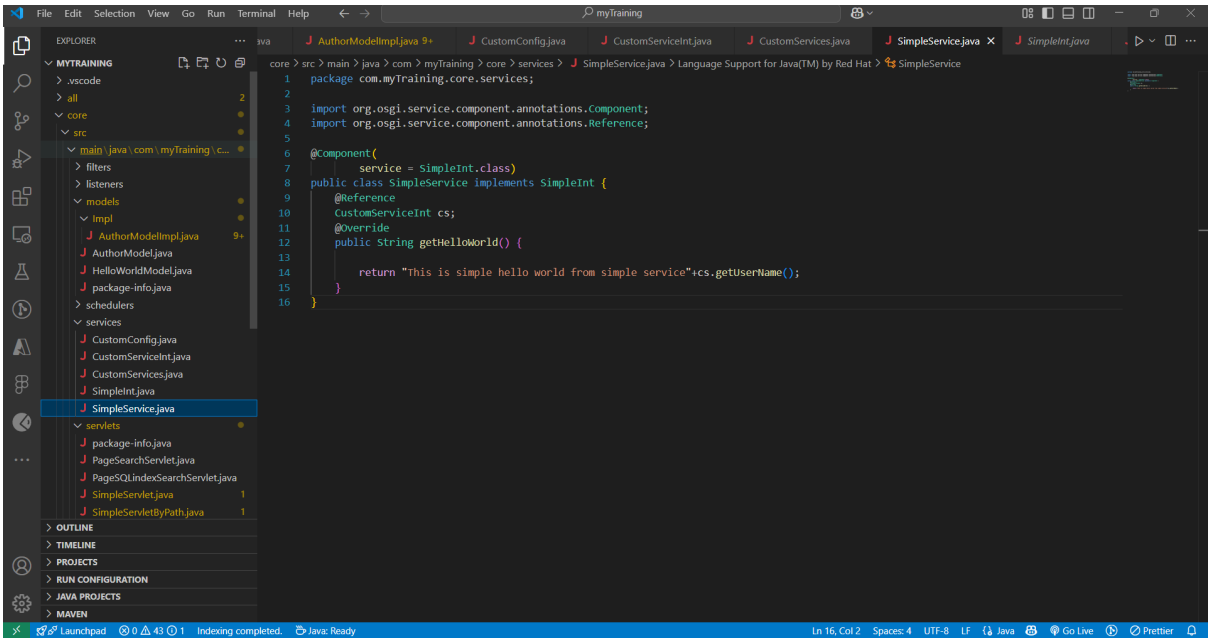
The AuthorModel file has been modified for to get the details from Api.



The services that have been modified:




File Edit Selection View Go Run Terminal Help
myTraining
EXPLORER
MYTRAINING
.vscode
all
core
src
main \ java \ com \ myTraining \ c...
filters
listeners
models
Impl
AuthorModelImpl.java
AuthorModel.java
HelloWorldModel.java
package-info.java
schedulers
services
CustomConfig.java
CustomServiceInt.java
CustomServices.java
SimpleInt.java
SimpleService.java
servlets
workflow
test
target
pom.xml
dispatcher
OUTLINE
TIMELINE
PROJECTS
RUN CONFIGURATION
JAVA PROJECTS
MAVEN
package-info.java
AuthorModel.java
AuthorModelImpl.java 9+
CustomConfig.java
CustomServiceInt.java
CustomServices.java
core > src > main > java > com > myTraining > core > services > CustomServices.java > Language Support for Java(TM) by Red Hat > CustomServices
import org.slf4j.LoggerFactory;
@Component(
service = CustomServiceInt.class,
immediate = true,
property = {
Constants.SERVICE_ID + "=Custom Service",
Constants.SERVICE_DESCRIPTION + "=This service reads values from Configurations"
})
@Designate(ocd = CustomConfig.class)
public class CustomServices implements CustomServiceInt {
//private static final String TAG = CardServiceImpl.class.getSimpleName();
private static final Logger LOGGER = LoggerFactory.getLogger(CustomServices.class);
private CustomConfig configuration;
@Activate
protected void activate(CustomConfig configuration) {
LOGGER.info("-------------inside Activate Method--------");
this.configuration = configuration;
}
@Override
public String getAuthorId() {
return configuration.getAuthorId()+"helo";
}
@Override
public String getAuthorApi() {
return configuration.getAuthorApi();
}
@Override
public String getUserName() {
return configuration.getUserName();
}
Launchpad 0 43 1 Indexing completed. Java: Ready
Ln 15, Col 58 Spaces: 4 UTF-8 LF Java Go Live Prettier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myTraining
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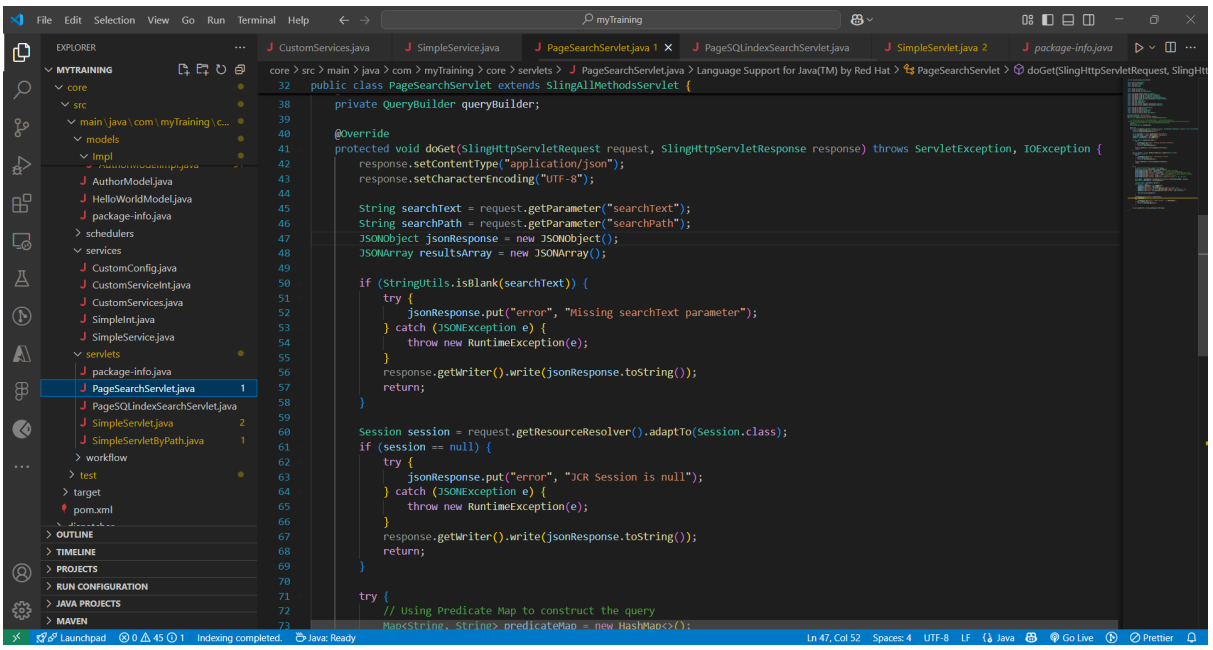
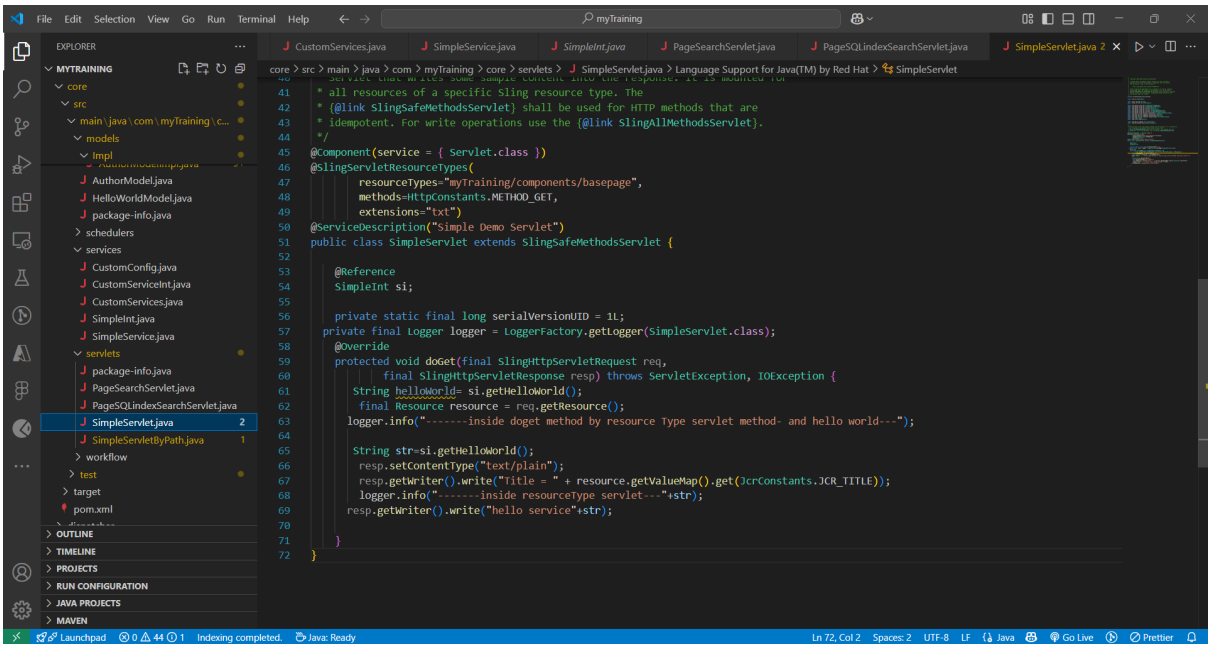
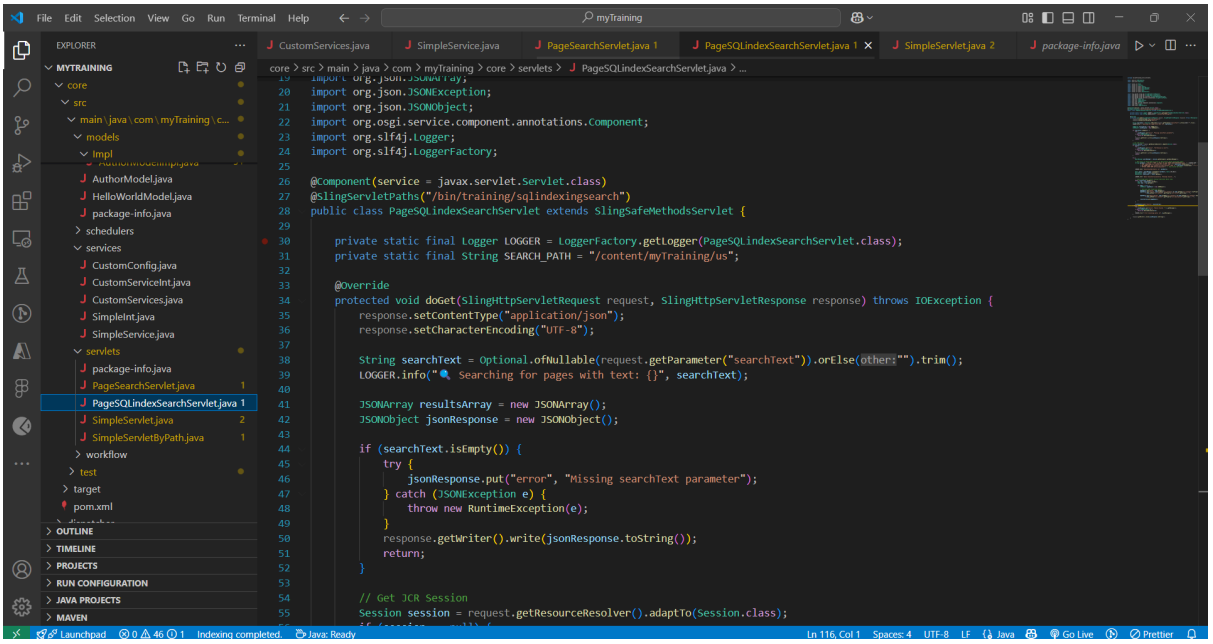
CustomServiceInt.java
CustomServices.java
SimpleInt.java
SimpleService.java
servlets
package-info.java
PageSearchServlet.java
PageSQLindexSearchServlet.java
SimpleServlet.java
SimpleServletByPath.java
OUTLINE
TIMELINE
PROJECTS
RUN CONFIGURATION
JAVA PROJECTS
MAVEN
AuthorModelImpl.java 9+
CustomConfig.java
CustomServiceInt.java
CustomServices.java
SimpleService.java
SimpleInt.java
core > src > main > java > com > myTraining > core > services > SimpleService.java > Language Support for Java(TM) by Red Hat > SimpleService
package com.myTraining.core.services;
import org.osgi.service.component.annotations.Component;
import org.osgi.service.component.annotations.Reference;
@Component(
service = SimpleInt.class)
public class SimpleService implements SimpleInt {
@Reference
CustomServiceInt cs;
@Override
public String getHelloWorld() {
return "This is simple hello world from simple service"+cs.getUserName();
}
}
Launchpad 0 43 1 Indexing completed. Java: Ready
Ln 16, Col 2 Spaces: 4 UTF-8 LF Java Go Live Prettier

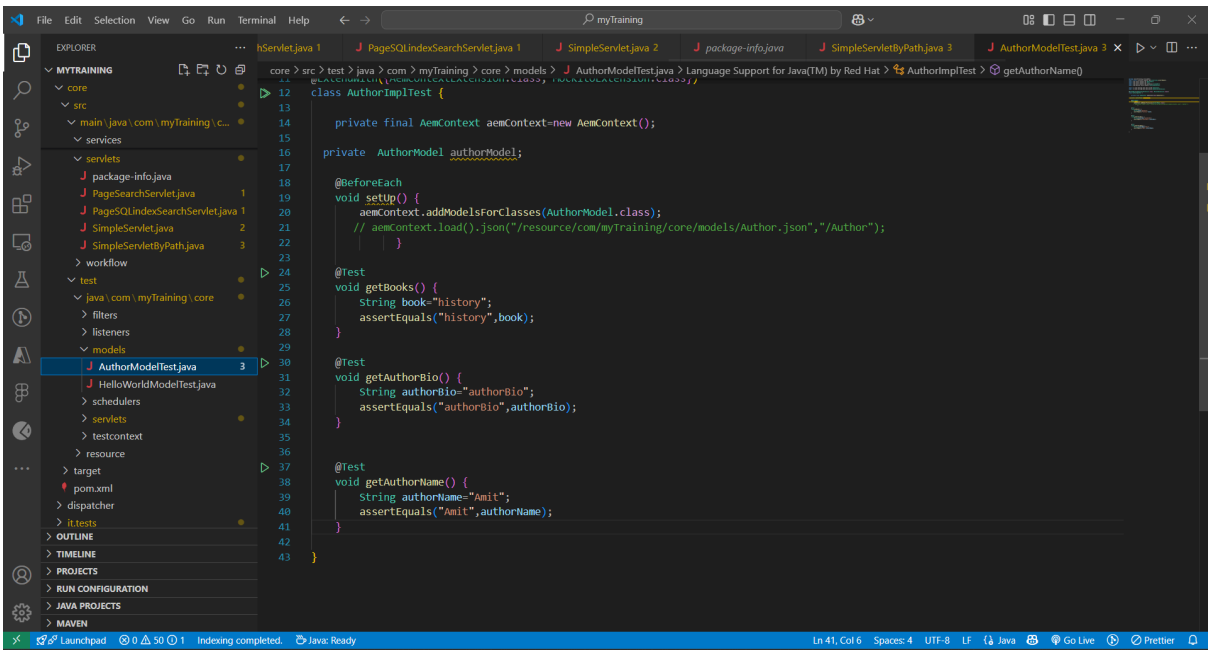
The servlets that have been modified:

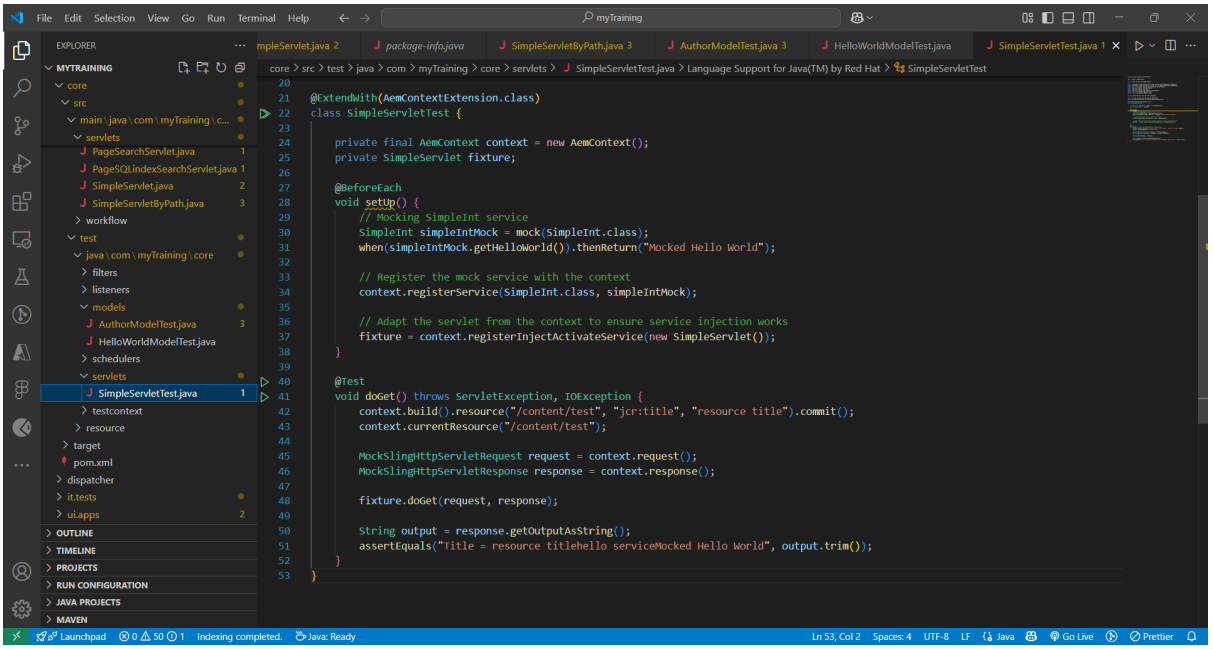






The Test codes for the Models and the servlet:

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myTraining
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MYTRAINING
core
src
main \ java \ com \ myTraining \ c...
servlets
PageSearchServlet.java 1
PageSQLindexSearchServlet.java 1
SimpleServlet.java 2
SimpleServletByPath.java 3
workflow
test
java \ com \ myTraining \ core
filters
listeners
models
AuthorModelTest.java 3
HelloWorldModelTest.java
schedulers
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testcontext
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it.tests
ui.apps 2
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PROJECTS
RUN CONFIGURATION
JAVA PROJECTS
MAVEN
mpleServlet.java 2
package-info.java
SimpleServletByPath.java 3
AuthorModelTest.java 3
HelloWorldModelTest.java
SimpleServletTest.java 1
core > src > test > java > com > myTraining > core > servlets > SimpleServletTest.java > Language Support for Java(TM) by Red Hat > SimpleServletTest
@ExtendWith(AemContextExtension.class)
class SimpleServletTest {
private final AemContext context = new AemContext();
private SimpleServlet fixture;
@BeforeEach
void setUp() {
// Mocking SimpleInt service
SimpleInt simpleIntMock = mock(SimpleInt.class);
when(simpleIntMock.getHelloWorld()).thenReturn("Mocked Hello World");
// Register the mock service with the context
context.registerService(SimpleInt.class, simpleIntMock);
// Adapt the servlet from the context to ensure service injection works
fixture = context.registerInjectActivateService(new SimpleServlet());
}
@Test
void doGet() throws ServletException, IOException {
context.build().resource("/content/test", "jcr:title", "resource title").commit();
context.currentResource("/content/test");
MockSlingHttpServletRequest request = context.request();
MockSlingHttpServletResponse response = context.response();
fixture.doGet(request, response);
String output = response.getOutputAsString();
assertEquals("Title = resource titlehello serviceMocked Hello World", output.trim());
}
}
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0 50 1
Indexing completed.
Java: Ready
Ln 53, Col 2
Spaces: 4
UTF-8
LF
Java
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