# Week 3 Lesson Plan

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| *Title* | ECIE 2207/ ECSE 3108/ ECII 2206/ ECSI 2206 |
| *Subject* | Advanced Visual Programming |
| *Author* | Felix Okoth |
| *Grade level* | 2rd Year |
| *Time duration* | 4 hours |
| *Overview* | Introduction to Xml, Json, Maven dependencies, QA |
| *Objective* | * Introduction to xml   + pom.xml file explained   + Adding dependency to pom.xml * Introduction to JSON * Software logging   + Logging levels * Test levels/ categorization * Test Cases, Test Case Outline (TCO) * Filling bugs.   + Format   + Prioritization   + Severity   + Triage * Automated testing of vert.x application.   + @RunWith   + @Before   + @After   + @Test   + TestContext |
| *Materials* | * Read   + JSON.pdf   + Learning XML.pdf Chapter 1 and 2.1 – 2.3   + Beginner-Guide-To-Software-Testing.pdf   + Apache.maven.3.cookbook.pdf Chapter 2 |
| *Activities and procedures* | 1. Add to the microservice pom.xml file slf4j, vertx-unit and junit dependencies. 2. Play with JsonObject and JsonArray objects. 3. Develop TC’s and TCO 4. Write a Bvt test case that validates “/forloop” web api. 5. File a bug. 6. Triage |
| *Conclusions* | Practice, practice, practice! Next week is C.A.T-2 |
| *Extra credit* |  |