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COSC 603: Software Testing and Maintenance

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Project 1 Task 1 Setting up the Development Environment

**Jlaja Pandora Podier’s Experience:**

I am familiar with and have used various software development environments including Visual Studio and NetBeans IDE. When I began my career as a software developer for the Department of Defense United States Army Communications Electronics Command (CECOM) Software Engineering Center (SEC) in 2008 I used Microsoft Visual Studio with the programing language C#. As I enrolled in the Towson Computer Science Graduate Program, while taking the Fundamental Data Structure and Algorithms Course we used Visual Studio with the C programming language. Since I already had some familiarity with Visual Studio the learning curve was minimal, it was just reintroducing the C programming language by conducting a refresher course. I have not had much experience with the Java programming language outside of the academia setting so utilizing Eclipse with a JAVA JRE will require some kind of learning curve to become acclimated with the tool.

Downloading and installing Eclipse Luna IDE for Java EE Developers 4.4.1 as per the instructions was straightforward. After installing Eclipse, I had to ensure that I had a Java JRE/SDK installed to be able to utilize the application. I have not used the Javadoc or JAutodoc plugin before as I typically provide comments for the source code within the source code using the “\*\*//” notation, so I will have to familiarize myself with this plug in and the notation used. For trial and error purposes, I developed a quick Hello World Program to ensure the Eclipse for Java worked. I even practiced using Javadocs and the “@param” notation to provide comments.

**Robert Bathmann’s Experience:**

I decided to install Eclipse inside an Ubuntu virtual machine so that outdated (and potentially unsecure) software will not affect my primary computer. First, I downloaded the Oracle JDK and manually installed it using the provided instructions. I unknowingly downloaded and extracted the .rpm version which caused strange behavior. I realized my mistake and downloaded the .tar.gz version after that.

I then found and downloaded the specified version of Eclipse. I extracted the files to an appropriate installation folder and created a new shortcut for the launcher. Eclipse recognized my existing JDK installation and I was able to run a simple “hello world” program quickly. I then installed the JAutoDoc tool using the built-in plugin installer.

I have already had much experience with Netbeans and Visual Studio, so it was easy to find my way around Eclipse. I also previously worked with Adobe Flash Builder, which is based on Eclipse. The most significant takeaway is that installing the JDK on Ubuntu is much more difficult than on Windows.