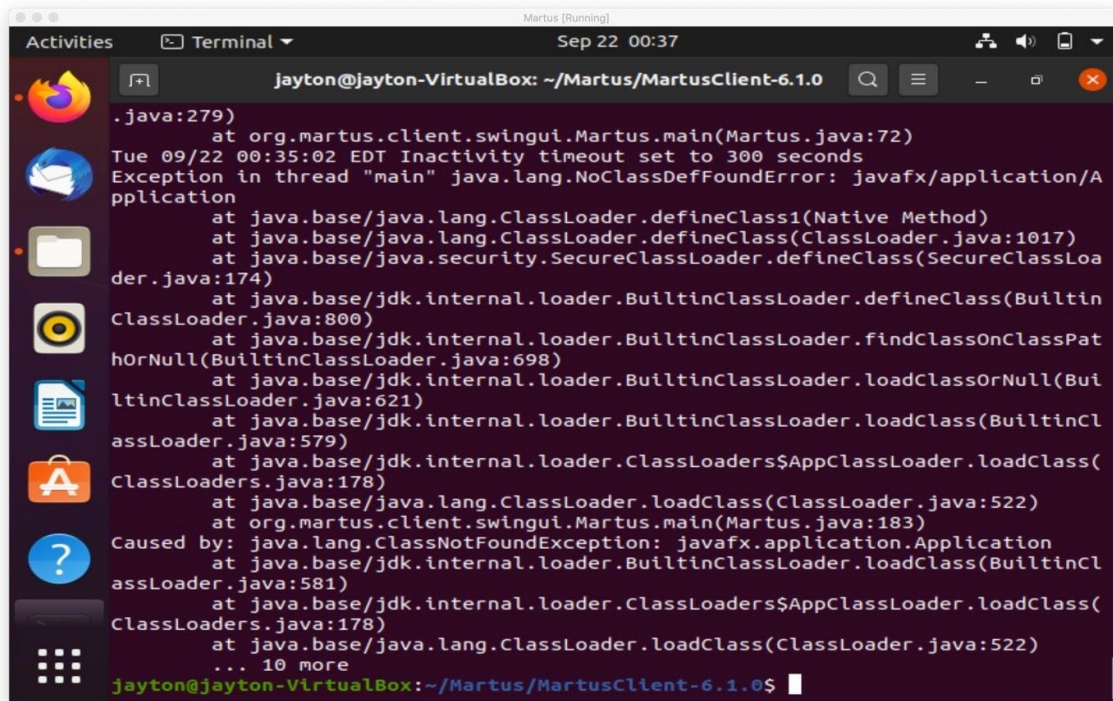
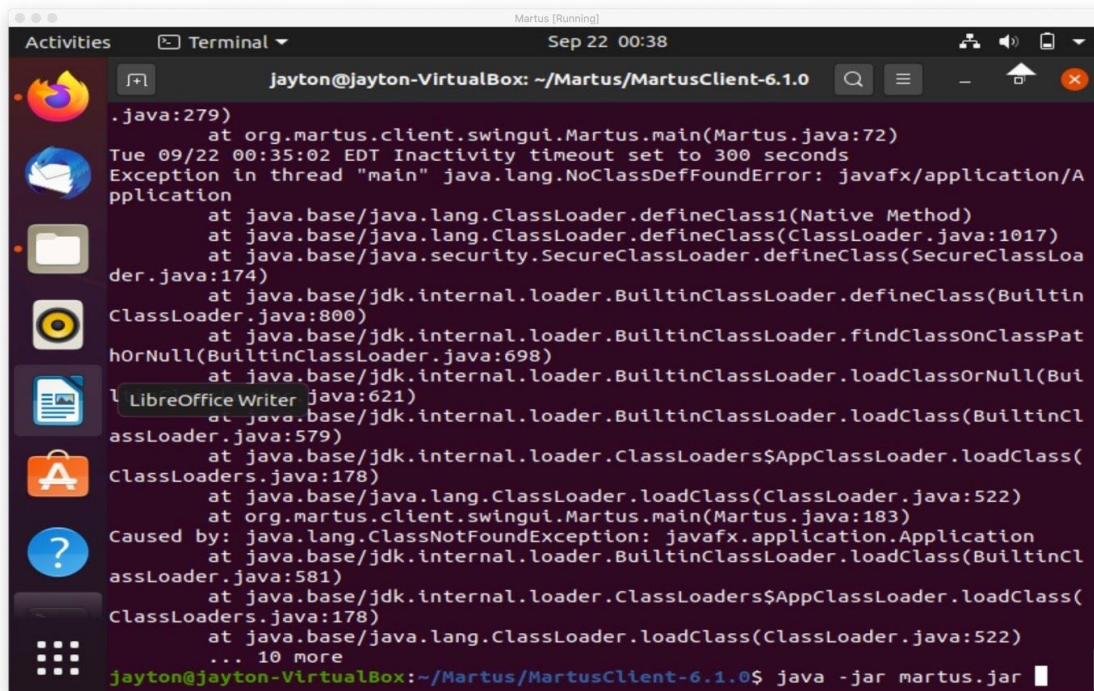


Martus attempt:

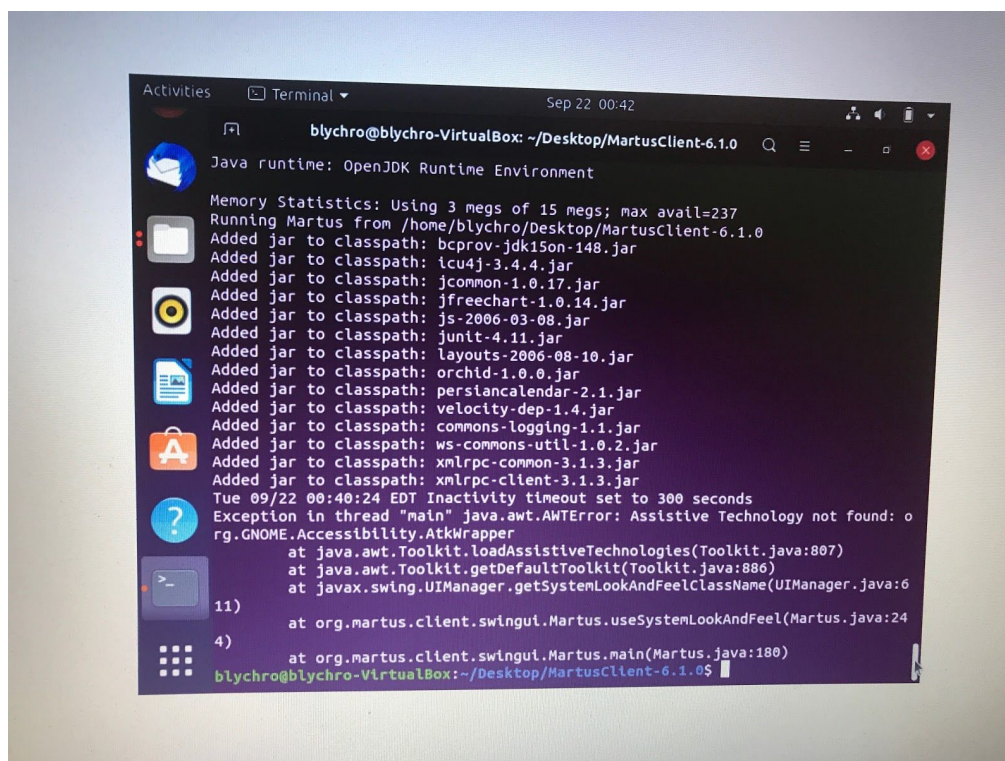
After installing and unzipping the Martus project our team attempted to run Martus on an Ubuntu Virtualbox. After installation of all the required software we attempted to run Martus and were not successful. We carefully browsed all supporting documentation from Marus without much help being provided. The attached screenshots document the error messages received from the terminal.

A screenshot of a terminal window titled "Martus [Running]" with a timestamp of "Sep 22 00:37". The terminal shows a Java exception stack trace. The error is a "java.lang.NoClassDefFoundError: javafx/application/Application". The stack trace includes frames from the Java base class loader, the JDK internal class loader, and the Martus client's class loader. The exception is caused by a "java.lang.ClassNotFoundException: javafx.application.Application". The terminal window has a dark background and a sidebar with application icons on the left.

```
.java:279)
    at org.martus.client.swingui.Martus.main(Martus.java:72)
Tue 09/22 00:35:02 EDT Inactivity timeout set to 300 seconds
Exception in thread "main" java.lang.NoClassDefFoundError: javafx/application/A
pplication
    at java.base/java.lang.ClassLoader.defineClass1(Native Method)
    at java.base/java.lang.ClassLoader.defineClass(ClassLoader.java:1017)
    at java.base/java.security.SecureClassLoader.defineClass(SecureClassLoa
der.java:174)
    at java.base/jdk.internal.loader.BuiltinClassLoader.defineClass(Builtin
ClassLoader.java:800)
    at java.base/jdk.internal.loader.BuiltinClassLoader.findClassOnClassPat
hOrNull(BuiltinClassLoader.java:698)
    at java.base/jdk.internal.loader.BuiltinClassLoader.loadClassOrNull(Bui
ltinClassLoader.java:621)
    at java.base/jdk.internal.loader.BuiltinClassLoader.loadClass(BuiltinCl
assLoader.java:579)
    at java.base/jdk.internal.loader.ClassLoaders$AppClassLoader.loadClass(
ClassLoaders.java:178)
    at java.base/java.lang.ClassLoader.loadClass(ClassLoader.java:522)
    at org.martus.client.swingui.Martus.main(Martus.java:183)
Caused by: java.lang.ClassNotFoundException: javafx.application.Application
    at java.base/jdk.internal.loader.BuiltinClassLoader.loadClass(BuiltinCl
assLoader.java:581)
    at java.base/jdk.internal.loader.ClassLoaders$AppClassLoader.loadClass(
ClassLoaders.java:178)
    at java.base/java.lang.ClassLoader.loadClass(ClassLoader.java:522)
    ... 10 more
jayton@jayton-VirtualBox:~/Martus/MartusClient-6.1.0$
```



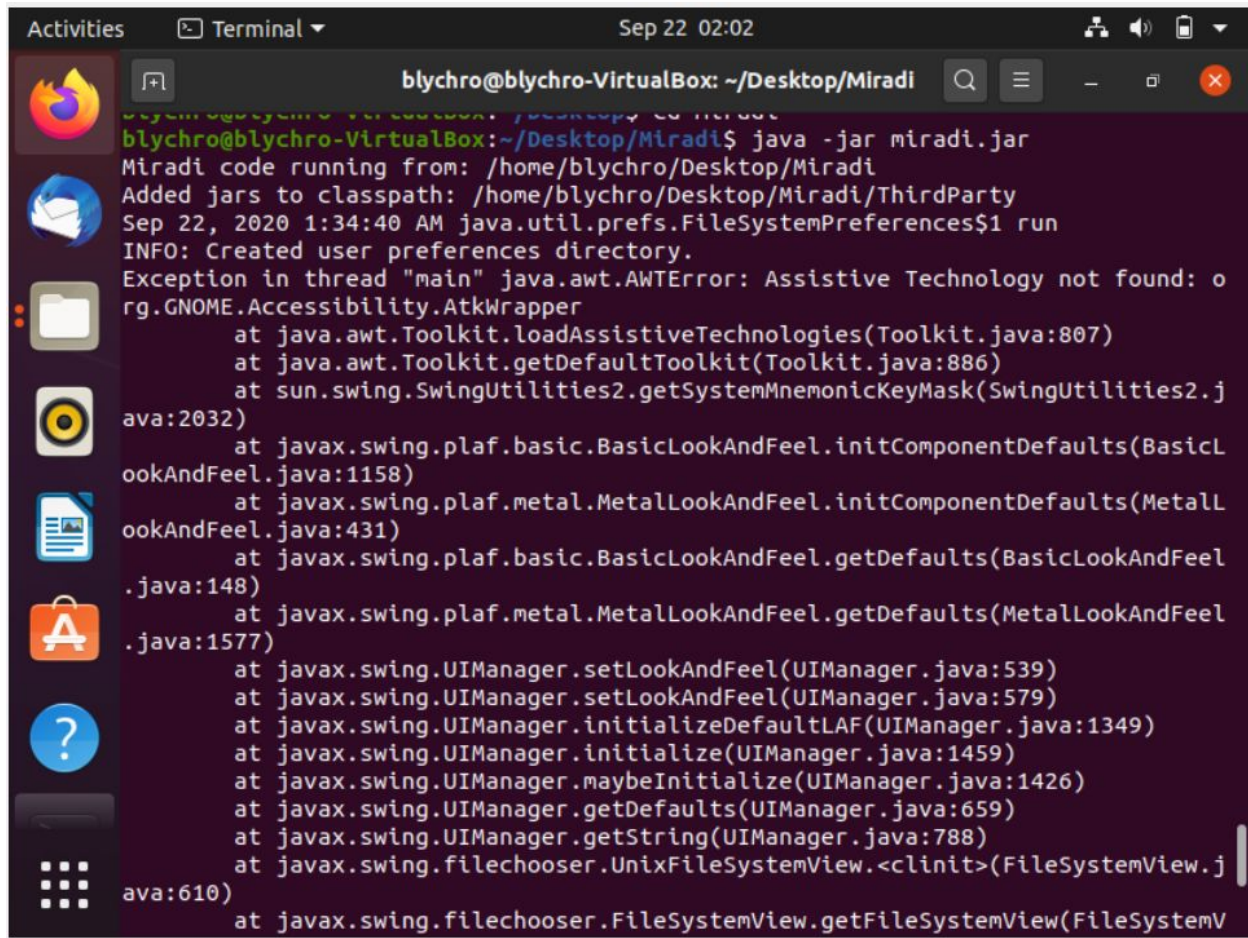
```
.java:279)
    at org.martus.client.swingui.Martus.main(Martus.java:72)
Tue 09/22 00:35:02 EDT Inactivity timeout set to 300 seconds
Exception in thread "main" java.lang.NoClassDefFoundError: javafx/application/A
pplication
    at java.base/java.lang.ClassLoader.defineClass1(Native Method)
    at java.base/java.lang.ClassLoader.defineClass(ClassLoader.java:1017)
    at java.base/java.security.SecureClassLoader.defineClass(SecureClassLoa
der.java:174)
    at java.base/jdk.internal.loader.BuiltinClassLoader.defineClass(Builtin
ClassLoader.java:800)
    at java.base/jdk.internal.loader.BuiltinClassLoader.findClassOnClassPat
hOrNull(BuiltinClassLoader.java:698)
    at java.base/jdk.internal.loader.BuiltinClassLoader.loadClassOrNull(Bui
l
1 LibreOffice Writer java:621)
    at java.base/jdk.internal.loader.BuiltinClassLoader.loadClass(BuiltinCl
assLoader.java:579)
    at java.base/jdk.internal.loader.ClassLoaders$AppClassLoader.loadClass(
ClassLoaders.java:178)
    at java.base/java.lang.ClassLoader.loadClass(ClassLoader.java:522)
    at org.martus.client.swingui.Martus.main(Martus.java:183)
Caused by: java.lang.ClassNotFoundException: javafx.application.Application
    at java.base/jdk.internal.loader.BuiltinClassLoader.loadClass(BuiltinCl
assLoader.java:581)
    at java.base/jdk.internal.loader.ClassLoaders$AppClassLoader.loadClass(
ClassLoaders.java:178)
    at java.base/java.lang.ClassLoader.loadClass(ClassLoader.java:522)
    ... 10 more
jayton@jayton-VirtualBox: ~/Martus/MartusClient-6.1.0$ java -jar martus.jar
```



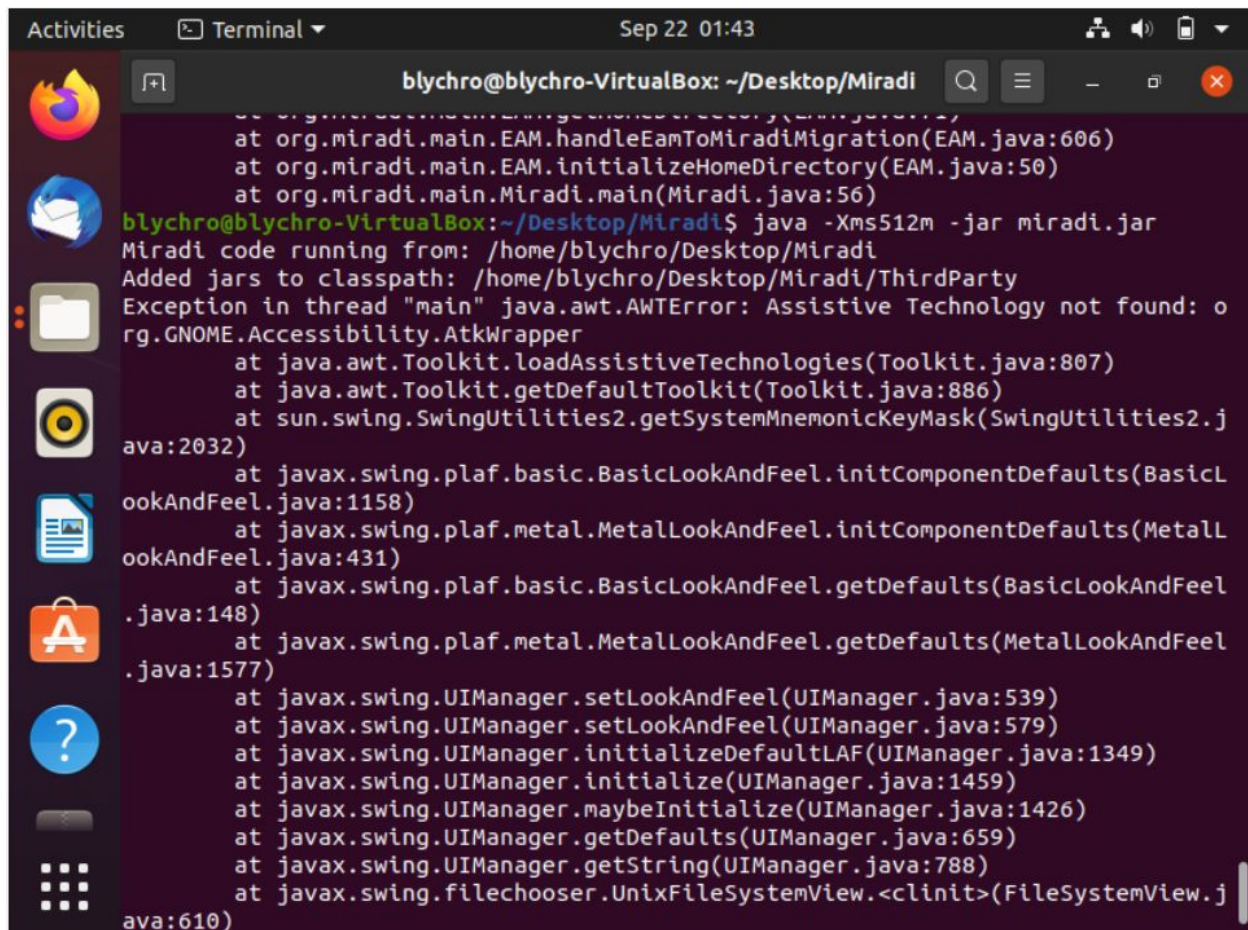
```
Activities Terminal Sep 22 00:42
blychro@blychro-VirtualBox: ~/Desktop/MartusClient-6.1.0
Java runtime: OpenJDK Runtime Environment
Memory Statistics: Using 3 megs of 15 megs; max avail=237
Running Martus from /home/blychro/Desktop/MartusClient-6.1.0
Added jar to classpath: bcprov-jdk15on-148.jar
Added jar to classpath: icu4j-3.4.4.jar
Added jar to classpath: jcommon-1.0.17.jar
Added jar to classpath: jfreechart-1.0.14.jar
Added jar to classpath: js-2006-03-08.jar
Added jar to classpath: junit-4.11.jar
Added jar to classpath: layouts-2006-08-10.jar
Added jar to classpath: orchid-1.0.0.jar
Added jar to classpath: persiancalendar-2.1.jar
Added jar to classpath: velocity-dep-1.4.jar
Added jar to classpath: commons-logging-1.1.jar
Added jar to classpath: ws-commons-util-1.0.2.jar
Added jar to classpath: xmlrpc-common-3.1.3.jar
Added jar to classpath: xmlrpc-client-3.1.3.jar
Tue 09/22 00:40:24 EDT Inactivity timeout set to 300 seconds
Exception in thread "main" java.awt.AWTError: Assistive Technology not found: o
rg.GNOME.Accessibility.AtkWrapper
    at java.awt.Toolkit.loadAssistiveTechnologies(Toolkit.java:807)
    at java.awt.Toolkit.getDefaultToolkit(Toolkit.java:886)
    at javax.swing.UIManager.getSystemLookAndFeelClassName(UIManager.java:6
11)
    at org.martus.client.swingui.Martus.useSystemLookAndFeel(Martus.java:24
4)
    at org.martus.client.swingui.Martus.main(Martus.java:180)
blychro@blychro-VirtualBox: ~/Desktop/MartusClient-6.1.0$
```

As a team we believe that assistance from Dr. Bowring will help with running the application. In the coming days we will also be attempting to run an earlier version of Martus that is better supported by Linux. As a backup plan we have also started working with Miradi, another H/FOSS project.

Miradi:

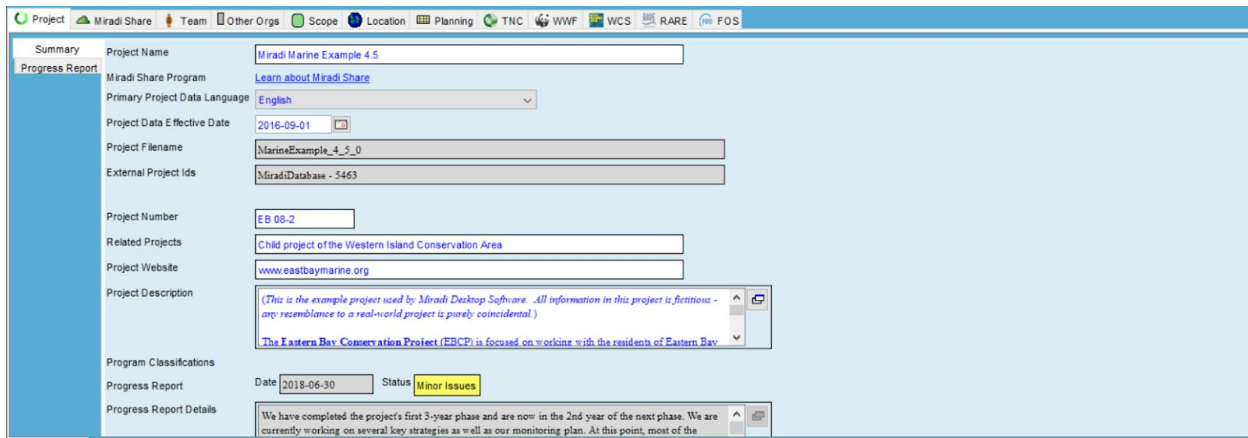


```
Activities Terminal Sep 22 02:02
blychro@blychro-VirtualBox: ~/Desktop/Miradi
blychro@blychro-VirtualBox: ~/Desktop/Miradi$ java -jar miradi.jar
Miradi code running from: /home/blychro/Desktop/Miradi
Added jars to classpath: /home/blychro/Desktop/Miradi/ThirdParty
Sep 22, 2020 1:34:40 AM java.util.prefs.FileSystemPreferences$1 run
INFO: Created user preferences directory.
Exception in thread "main" java.awt.AWTError: Assistive Technology not found: o
rg.GNOME.Accessibility.AtkWrapper
    at java.awt.Toolkit.loadAssistiveTechnologies(Toolkit.java:807)
    at java.awt.Toolkit.getDefaultToolkit(Toolkit.java:886)
    at sun.swing.SwingUtilities2.getSystemMnemonicKeyMask(SwingUtilities2.j
ava:2032)
    at javax.swing.plaf.basic.BasicLookAndFeel.initComponentDefaults(BasicL
ookAndFeel.java:1158)
    at javax.swing.plaf.metal.MetalLookAndFeel.initComponentDefaults(MetalL
ookAndFeel.java:431)
    at javax.swing.plaf.basic.BasicLookAndFeel.getDefaults(BasicLookAndFeel
.java:148)
    at javax.swing.plaf.metal.MetalLookAndFeel.getDefaults(MetalLookAndFeel
.java:1577)
    at javax.swing.UIManager.setLookAndFeel(UIManager.java:539)
    at javax.swing.UIManager.setLookAndFeel(UIManager.java:579)
    at javax.swing.UIManager.initializeDefaultLAF(UIManager.java:1349)
    at javax.swing.UIManager.initialize(UIManager.java:1459)
    at javax.swing.UIManager.maybeInitialize(UIManager.java:1426)
    at javax.swing.UIManager.getDefaults(UIManager.java:659)
    at javax.swing.UIManager.getString(UIManager.java:788)
    at javax.swing.filechooser.UnixFileSystemView.<clinit>(FileSystemView.j
ava:610)
    at javax.swing.filechooser.FileSystemView.getFileSystemView(FileSystemV
```



```
blychro@blychro-VirtualBox: ~/Desktop/Miradi
at org.miradi.main.EAM.handleEamToMiradiMigration(EAM.java:606)
at org.miradi.main.EAM.initializeHomeDirectory(EAM.java:50)
at org.miradi.main.Miradi.main(Miradi.java:56)
blychro@blychro-VirtualBox:~/Desktop/Miradi$ java -Xms512m -jar miradi.jar
Miradi code running from: /home/blychro/Desktop/Miradi
Added jars to classpath: /home/blychro/Desktop/Miradi/ThirdParty
Exception in thread "main" java.awt.AWTError: Assistive Technology not found: o
rg.GNOME.Accessibility.AtkWrapper
at java.awt.Toolkit.loadAssistiveTechnologies(Toolkit.java:807)
at java.awt.Toolkit.getDefaultToolkit(Toolkit.java:886)
at sun.swing.SwingUtilities2.getSystemMnemonicKeyMask(SwingUtilities2.j
ava:2032)
at javax.swing.plaf.basic.BasicLookAndFeel.initComponentDefaults(BasicL
ookAndFeel.java:1158)
at javax.swing.plaf.metal.MetalLookAndFeel.initComponentDefaults(MetalL
ookAndFeel.java:431)
at javax.swing.plaf.basic.BasicLookAndFeel.getDefaults(BasicLookAndFeel
.java:148)
at javax.swing.plaf.metal.MetalLookAndFeel.getDefaults(MetalLookAndFeel
.java:1577)
at javax.swing.UIManager.setLookAndFeel(UIManager.java:539)
at javax.swing.UIManager.setLookAndFeel(UIManager.java:579)
at javax.swing.UIManager.initializeDefaultLAF(UIManager.java:1349)
at javax.swing.UIManager.initialize(UIManager.java:1459)
at javax.swing.UIManager.maybeInitialize(UIManager.java:1426)
at javax.swing.UIManager.getDefaults(UIManager.java:659)
at javax.swing.UIManager.getString(UIManager.java:788)
at javax.swing.filechooser.UnixFileSystemView.<clinit>(FileSystemView.j
ava:610)
```

While getting the initial download from Miradi was not an issue, we could not manage to make the program execute on Ubuntu. After trying a few different terminal commands, we attempted to run it in Windows, instead and managed to get it to run.



The test program provided demonstrates a way for an organization to document the work and projects and of its employees working on the aforementioned project. All project information is provided including project details, the project website, employees, and more There is a tab to list

employees along with their contact information, as well as tabs to display multiple organizations involved within the project and their information.