## Technical Information:

* Cobbler was written in Java 8
* Cobbler uses the [RSyntaxTextArea](https://bobbylight.github.io/RSyntaxTextArea/) library.

## Development Environment Setup

1. Clone the Cobbler repository to the local disk.
2. Launch the Eclipse IDE.
3. In the workspace selection dialog, click the new button.
4. Create a new workspace named Cobbler-workspace, select this workspace to use and continue launching Eclipse.
5. From the Eclipse **File** menu, select the **Import…** menu option.
6. In the **Import** dialog, open the **Maven** folder, and select the **Existing Maven Projects** option.
7. Click the **Next >** button.
8. Click the **Browse…** button.
9. In the open dialog that opens, navigate to where the Cobbler repository was cloned in the first step, select the root level folder, and click the dialog’s **Open** button.
10. The **Projects:** pane should now be populated with: **/cobbler/pom.xml**
11. Click the **Finish** button.
12. The Eclipse **Package Explorer** should now be populated with a **cobbler** folder.
13. Right click the **cobbler** folder, from the contextual menu select **Maven** 🡪 **Update Project…**
14. In the **Update Maven Project** dialog, verify that the following checkboxes are checked:
    1. **cobbler** (under Available Maven Codebases)
    2. **Update project configuration from pom.xml**
    3. **Refresh workspace resources from local filesystem**
    4. **Clean projects**
15. Click the **OK** button.
16. If there are compiling errors at this point, try repeating the two previous steps, but with the **Force Update of snapshots/Releases** checkbox checked.
17. If there are compiling errors at this point, try the following:
    1. Right click the **cobbler** folder, from the contextual menu select **Run As** 🡪 **Maven Clean**.
    2. Right click the **cobbler** folder, from the contextual menu select **Run As** 🡪 **Maven Build**.
18. In the Eclipse Package Explorer, open the cobbler folder, open src/main/java, then open com.horvath.cobbler.application.
19. In the com.horvath.cobbler.application package, right-click the CobblerApplication.java file, from the contextual menu select **Run As** 🡪 **Java Application**.
20. The Cobbler application should start up.

## Unit Testing

Unit tests for the Cobbler application were written with JUnit version 4.13.1.

A unit test suite is included for running all unit tests at one time. The test suite is named CobblerTestSuite.java and located at src/test/java in the package com.horvath.cobbler.

When a new unit test file is created, it needs to be added to the test suite following the existing pattern in the test suite file.

To run the unit test suit right-click the CobblerTestSuite.java file and select **Run As** 🡪 **Java JUnit Test**.