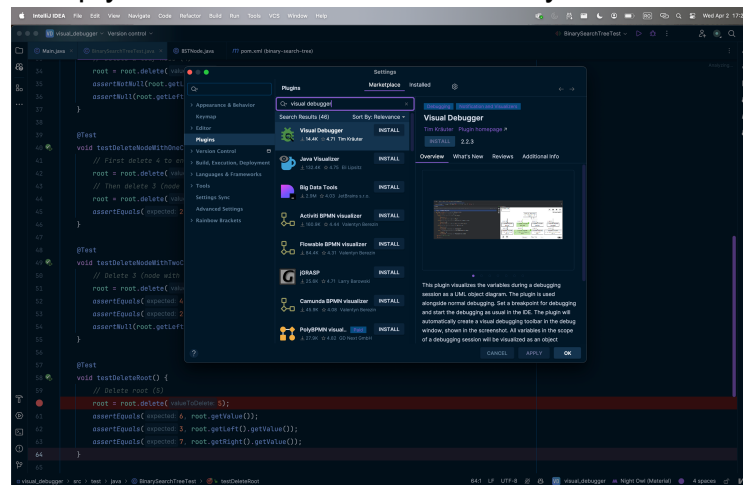


# The Visual Debugger Tool

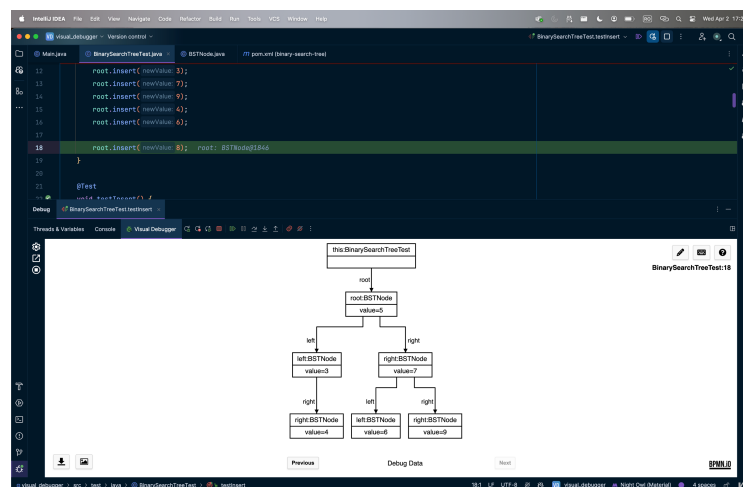
<https://doi.org/10.1109/ICSME55016.2022.00066>

Măierean Mircea - Ignat Dragoș - Ichim Vlad

Setting up and using the Visual Debugger tool is a simple and user-friendly process. To get started, open IntelliJ IDEA and navigate to the **Settings** menu. From there, go to the **Plugins** section, where you can search for 'Visual Debugger' in the marketplace. Once you find it, click **Install** and restart the IDE if prompted. After installation, the Visual Debugger will be ready to use, seamlessly integrating into your development environment to help you visualize and troubleshoot your code more effectively.

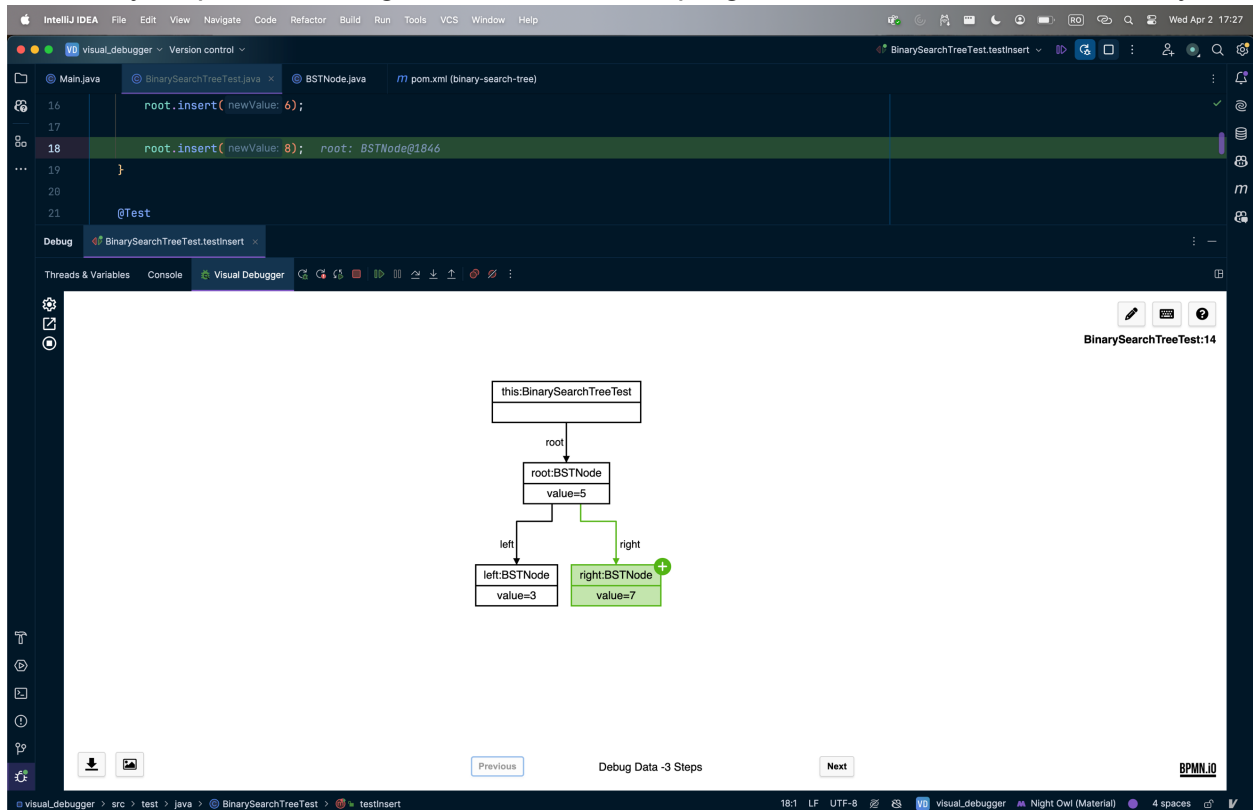


Using the Visual Debugger tool is just as straightforward. You begin by setting breakpoints in your code as you normally would. When the program hits a breakpoint during execution, the debugger activates, allowing you to inspect the current state of the application.



In What sets this tool apart is its ability to present the structure of your classes using UML diagrams, offering a clearer and more intuitive view of how objects and data interact within the system. This visual representation greatly enhances your understanding of class relationships and the overall flow of data, making debugging more efficient and insightful.

Furthermore, it allows developers to navigate seamlessly between states of the debugging, as it has a history section which points to past states of the object, which is extremely helpful if a change in the state of the program has been done accidentally.



Sharing the information with the team is also extremely easy, as the tool allows exporting the visual representation either as an svg or xml file.

