

OBJECT'S WORKBENCH: learning extension for IntelliJ

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Problem statement

First steps in programming often are difficult, and as research shows its problematic not only for beginners.

Novice programmers, students and even teachers encounter difficulties in basic software development like program designing to fulfil certain task, syntax of coding and understanding of objects structures, they interactions and inheritance.

Difficulties

IntelliJ IDEA possess a huge database of plugins accessible directly from the webpage and build in plugin manager, yet extension that try to help learning programming, coding and software structures just an few. Currently there is no workbench functionality available in any other IDE except BlueJ mentioned. So, I try to provide first such implementation for other application.

Motivation

To help everyone, new and current programs writers, better understand and assimilate with ways how classes and object works, its often recommended to use an BlueJ IDE.

Its software created by programmer's and teachers for new programmer's that except basic functionality its provide a visual object representation and interaction called object workbench.

Such convenience allows users to create and delete objects, edit and review them that easily show changes inside them.



Approach

In my project I going to implementing it in to more modern and more professional IDE like an IntelliJ IDEA Community edition, which is widely use by java experts. Such implementation is possible by creation of plugin and software structure of IntelliJ. Additionally, JetBrains provide a full documentation and community support in creation of plugins for they software.

