Java Modular Project

Airondlph

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**References**

# Motivation

Java modularity is relatively recent, while *apache ant* has been with us for a long time. Due to the fact that today *ant* is still widely used, and due to the lack of information, or lack of clarity of the existing information, on how to write a build project for modular projects without external tools or IDEs, I have decided to create this project that centers its focus on a build project created for 4 modules as an example.

* FirstModule: Example module
* FirstModule-test: Example of a test-module for the first module (First Module)
* SecondModule: Example module
* SecondModule-test: Example of a test-module for the second module (Second Module)

# Use

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| --- | --- |
| $ant | Equivalent of “ant dist”. |
| $ant clean | Clean all modules and remove build and dist directories. |
| $ant build | Builds all modules. |
| $ant dist | Creates all .jar (one for module). |
| $ant run | Runs the module “SecondModule-test”. |
| $ant javadoc | *In implementation* |
| $ant test | *In implementation* |
| $ant clean-firstmodule | Clean the module “FirstModule”. |
| $ant build-firstmodule | Build the module “FirstModule”. |
| $ant dist-firstmodule | Create the .jar for the module “FirstModule”. |
| $ant run-firstmodule | Runs the module “FirstModule”. |
| $ant clean-firstmodule-test | Clean the module “FirstModule-test”. |
| $ant build-firstmodule-test | Build the module “FirstModule-test”. |
| $ant dist-firstmodule-test | Create the .jar for the module “FirstModule-test”. |
| $ant run-firstmodule-test | Runs the module “FirstModule-test”. |
| $ant clean-secondmodule | Clean the module “SecondModule”. |
| $ant build-secondmodule | Build the module “SecondModule”. |
| $ant dist-secondmodule | Create the .jar for the module “SecondModule”. |
| $ant run-secondmodule | Runs the module “SecondModule”. |
| $ant clean-secondmodule-test | Clean the module “SecondModule-test”. |
| $ant build-secondmodule-test | Build the module “SecondModule-test”. |
| $ant dist-secondmodule-test | Create the .jar for the module “SecondModule-test”. |
| $ant run-secondmodule-test | Runs the module “SecondModule-test”. |

# Implementation

## FirstModule

## FirstModule-test

## SecondModule

## SecondModule-test

# Changes

|  |  |  |
| --- | --- | --- |
| Version | Changes | Date |
| v1.0.0 | * Create the document and its structure. * Add Motivation and uses sections. | 06-07-2024 |
| v1.0.1 | * Add test build task | 06-07-2024 |

# Review & Approve

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| --- | --- | --- | --- | --- |
| Version | Reviewer | Revision Date | Approver | Approvement Date |
| v1.0.0 | Airondlph | 06-07-2024 | Airondlph | 06-07-2024 |
| v1.0.1 | Airondlph | 06-07-2024 | Airondlph | 06-07-2024 |