

# Java Modular Project

*Airondlph*

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# Index

- 1. Motivation.....5
- 2. Use .....6
- 3. Implementation.....8
  - 3.1. FirstModule .....8
  - 3.2. FirstModule-test.....8
  - 3.3. SecondModule .....8
  - 3.4. SecondModule-test.....8
- 4. Changes.....9
- 5. Review & Approve.....9

# Images

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# References

# 1. 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)

## 2. Use

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

<code>\$ant run-secondmodule-test</code>	Runs the module “SecondModule-test”.
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## **3. Implementation**

**3.1. FirstModule**

**3.2. FirstModule-test**

**3.3. SecondModule**

**3.4. SecondModule-test**



## 4. Changes

Version	Changes	Date
v1.0.0	<ul style="list-style-type: none"><li>• Create the document and its structure.</li><li>• Add Motivation and uses sections.</li></ul>	06-07-2024
v1.0.1	<ul style="list-style-type: none"><li>• Add test build task</li></ul>	06-07-2024

## 5. Review & Approve

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