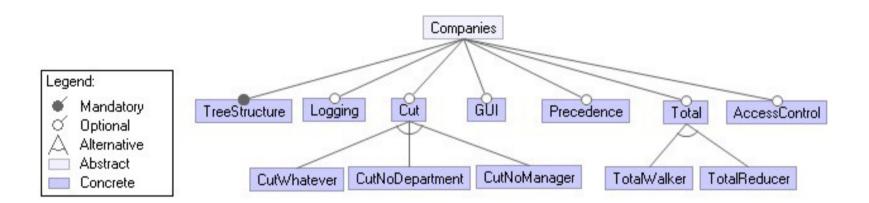
### 101Companies Software Product Line



### Feature Model



# Getting Started With Java

#### Setting up your Java environment:

- Get the suitable Java distribution from the Oracle/Java website.
- Run the installer.
- Add a new system variable with the name JAVA\_HOME and the value of the directory Java was installed in.
- Add %JAVA\_HOME%\bin to your system path.

# Getting Started with Ant

- To get up and running with the binary edition of Ant quickly, follow these steps:
  - 1 Make sure you have a Java environment installed.
  - 2 Download Ant.
  - 3 Uncompress the downloaded file into a directory.
  - 4 Set environmental variables ANT\_HOME to your ANT. environment and add %ANT\_HOME%/bin to your PATH.

# Generating Products

### Three Steps:

Step 1: Set project.properties file.

Step 2: Run Hephaestus tool\*.

Step 3: Run the generated product.

<sup>\*</sup> Hephaestus-code is currently available for windows.

### Step 1: Set project.properties file

- Set the path to where this folder is located in your computer in all fields.
- Set the instance-model field to the instance you have chosen.
- Set the target-dir field to the directory where the project will be generated

```
project.properties

1    name=101Companies
2    feature-model=D:\101Companies\101CompaniesSPL\Hephaestus\featureModel.xml
3    configuration-model=D:\101Companies\101CompaniesSPL\Hephaestus\ck.xml
4    instance-model=D:\101Companies\101CompaniesSPL\Hephaestus\instanceModel.xml
5    component-model=D:\101Companies\101CompaniesSPL\Hephaestus\compModel.txt
6    source-dir=D:\101Companies\101CompaniesSPL\
7    target-dir=D:\101Companies\101CompaniesProducts\product01
```

# Warning

• If you choose a target directory where a product has already been generated, clean the folder before generating a new product.

• Optionally, you can change the target-dir in project.properties.



## Hephaestus Instance Model

• Inside 101Companies\hephaestus folder, choose the product configuration between some of the existing instance models or create a new xml file following the same pattern of the existing instance models and save.

### Step 2: Run Hephaestus tool

#### In your command line:

- 1 Go to hephaestus folder.
- 2 Run VMCODE.exe.
- 3 Type project.properties and hit enter.
- 4 When the program asks to generate the product, type y and hit enter.
- 5 If no warnings appears, the product was generated with success.
- \* If you are interested to see configuration knowledge, in hephaestus folder type java -jar ckeditor.jar ck.xml

### Step 3 – Run the generated product

In your command line go to the generated product directory. Type:

ant t: To run the tests of the generated product.

ant r: To run the Main Class of the generated product.

ant ca: To clean all files of the product folder in order to generate another product in the same target.

### 101Companies Software Product Line

