Open Installer IDE

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xDesign

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Agenda

- What is openInstaller IDE Tool?
- Problem Statement
- Task List
- Task Flow Map
- Low Fi Prototype
- Project Wiki
- xDesign Page

What is openInstaller IDE

- A Visual tool to enable developers to easily build installers.
- Built on NetBeans platform & PurpleHaze framework.
- Distributed as a stand alone Java application & as a Netbeans plug-in
- Its an IDE for installer creators.
- Instead of manually coding data into XML files, developers can now use GUI
  - > to manage inputs from multiple component products and easily generate configuration XML files.
  - > organize sequence of all Installer panels (Splash Screen, License Info, Terms & Conditions etc.,)
  - > Perform integrity check and validate XML
  - > The tool capabilities include more than visual editing of XML files, like integrity check, validation, ease of creation of new installers quickly and finally automating the assembly of the installer.
- Based on the XML files, Installers are built on the PH framework
- Beta release : End Aug 2007

Problem Statement

- Installer Panel design is based on complex configuration XML files which contain multiple installation packages & patches, of multiple component products
- Developers need an easy way to write configuration XML code
  - > to add multiple packages, dependencies, patches of multiple component products
  - > organize and preview installer screen panels
  - > perform integrity check
  - > contextually validate and fix errors.
    - > Sample Input data for a component (say Web Server 7)
      - Packages : Sun OS - 5 packages , Linux - 5 packages, Windows 7 packages: HP : 5 packages
      - Dependencies : CLI] Web Server] Dev
      - Patches & Data Models : http://vault.red.iplanet.com/WS70/Engineering/JES/JESUISpec.html

Task List (1/2)

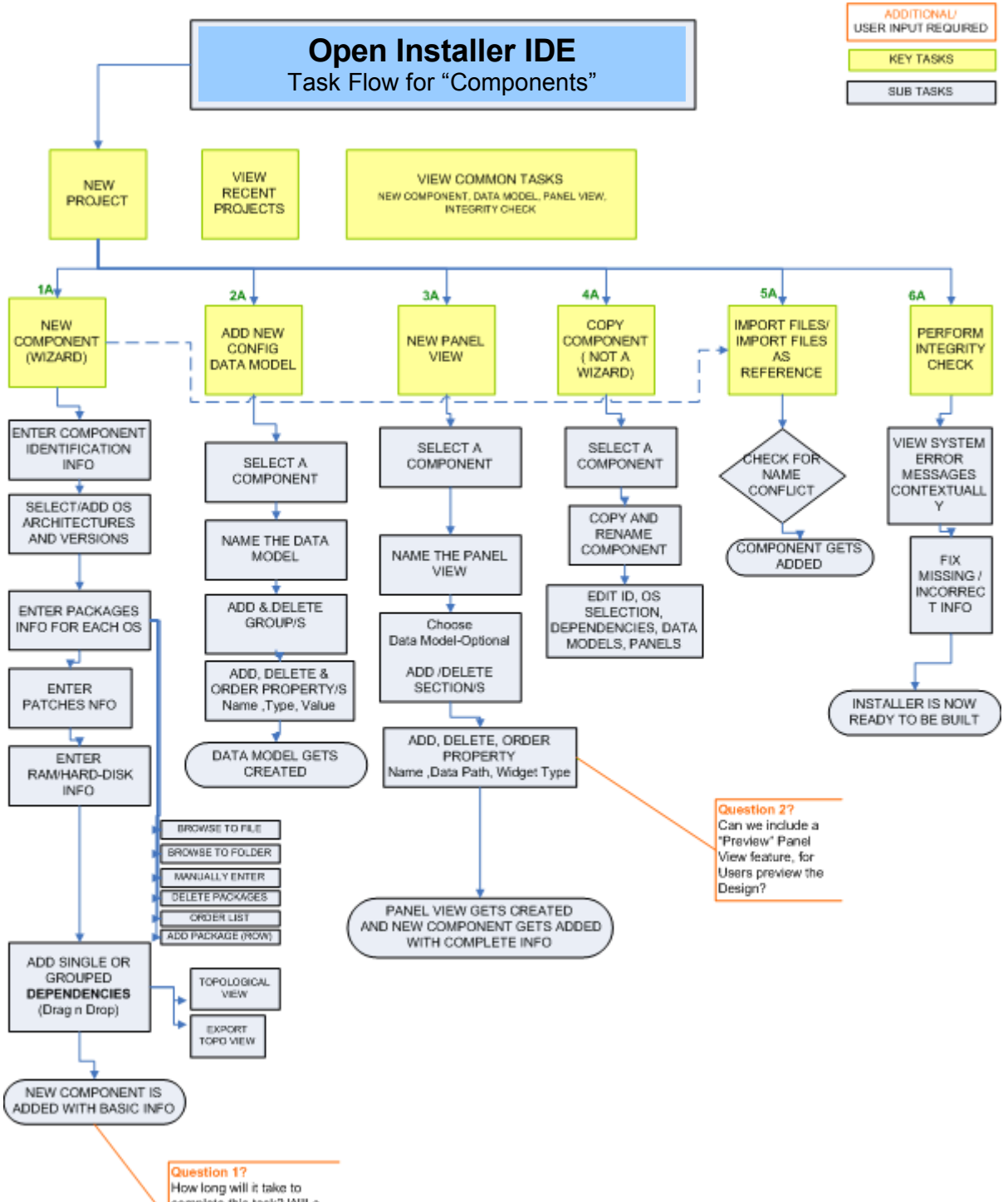
- **Files** : New, Open, Open Sample, Save, Save As, Delete, Close, Perform Integrity Check, Fix Errors, Import Component files, Import component files as a Reference
  - **Components :** New, Copy, Edit, Delete, Rename, Import Component files, Import component files as a Reference
    - > **OS Details :** Select OS Architecture and Versions.
      - Packages : Add, Browse from folder, Browse from file
      - Patches : Add, Browse from file
    - > **Dependencies** : New, Edit, Delete, Copy (Drag n Drop), View Topology, View List of Dependencies, Export, Save, Print
    - > **Data Model** : New, Edit, Delete,Import, View XML Source
      - **Groups :** New , Edit, Delete
      - **Properties :** New, Edit, Delete
    - > **Installer Panel Views :** New, Edit, Delete, Preview, Import View XML Source
      - Sections : New, Edit, Delete
      - Properties : Select/ De Select properties

Task List (2/2)

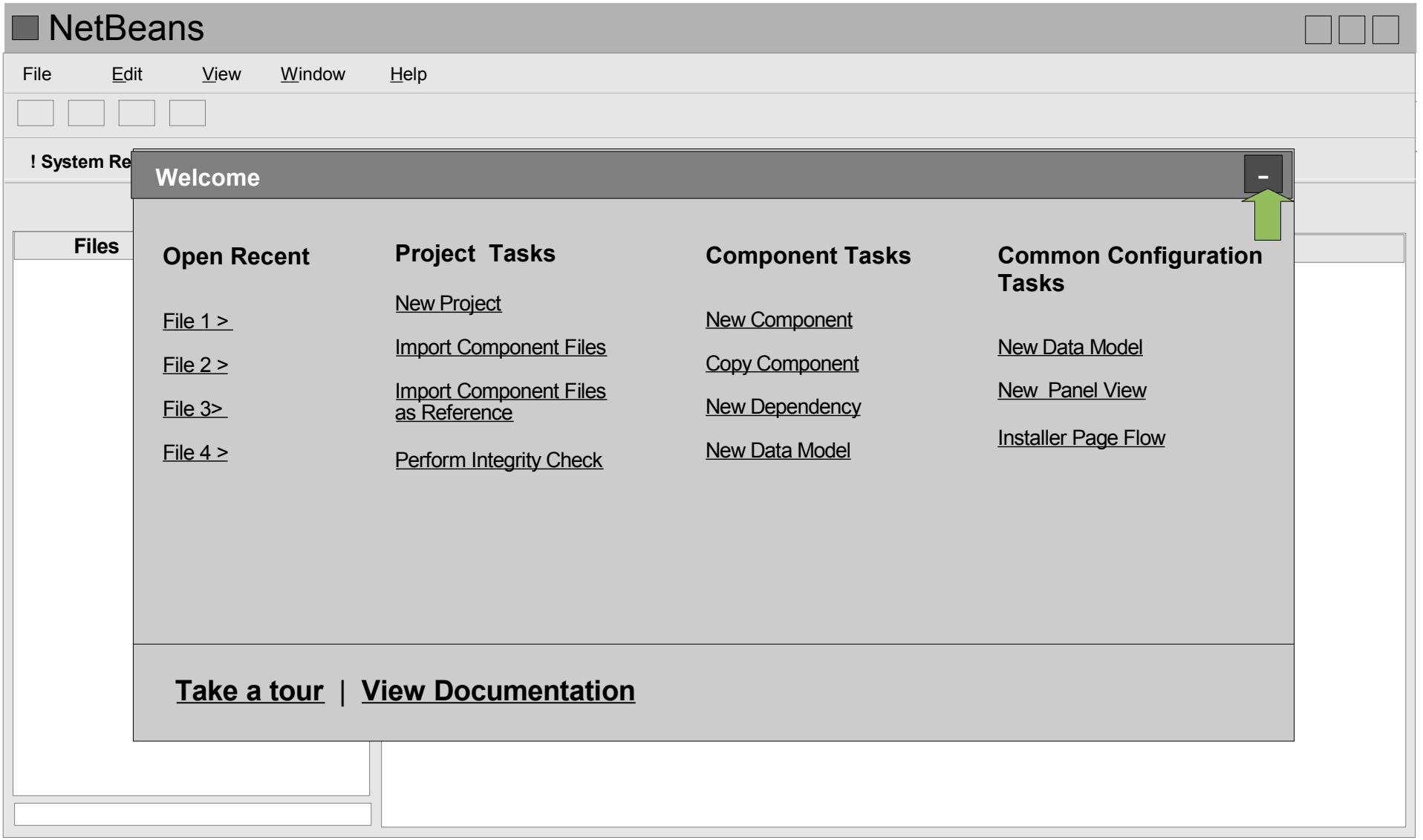
- **Common Configuration :**
  - **Common Data Model :** New, Edit, Delete, View XML Source
    - **Groups :** New , Edit, Delete
    - **Properties :** New, Edit, Delete,
  - **Common Installer Panel Views :** New, Edit, Delete, Preview, View XML Source
    - Sections : New, Edit, Delete,
    - Properties : Select/ De Select properties,
  - **Panel Sequence :**
    - Select and Order Panel Flows for the following mode
      - Express Install, Custom Install,Repair,Un-Install
    - New, Edit, Delete Installation Modes
    - Preview
  - **Installer Layout Preferences :**

Task Flow Map

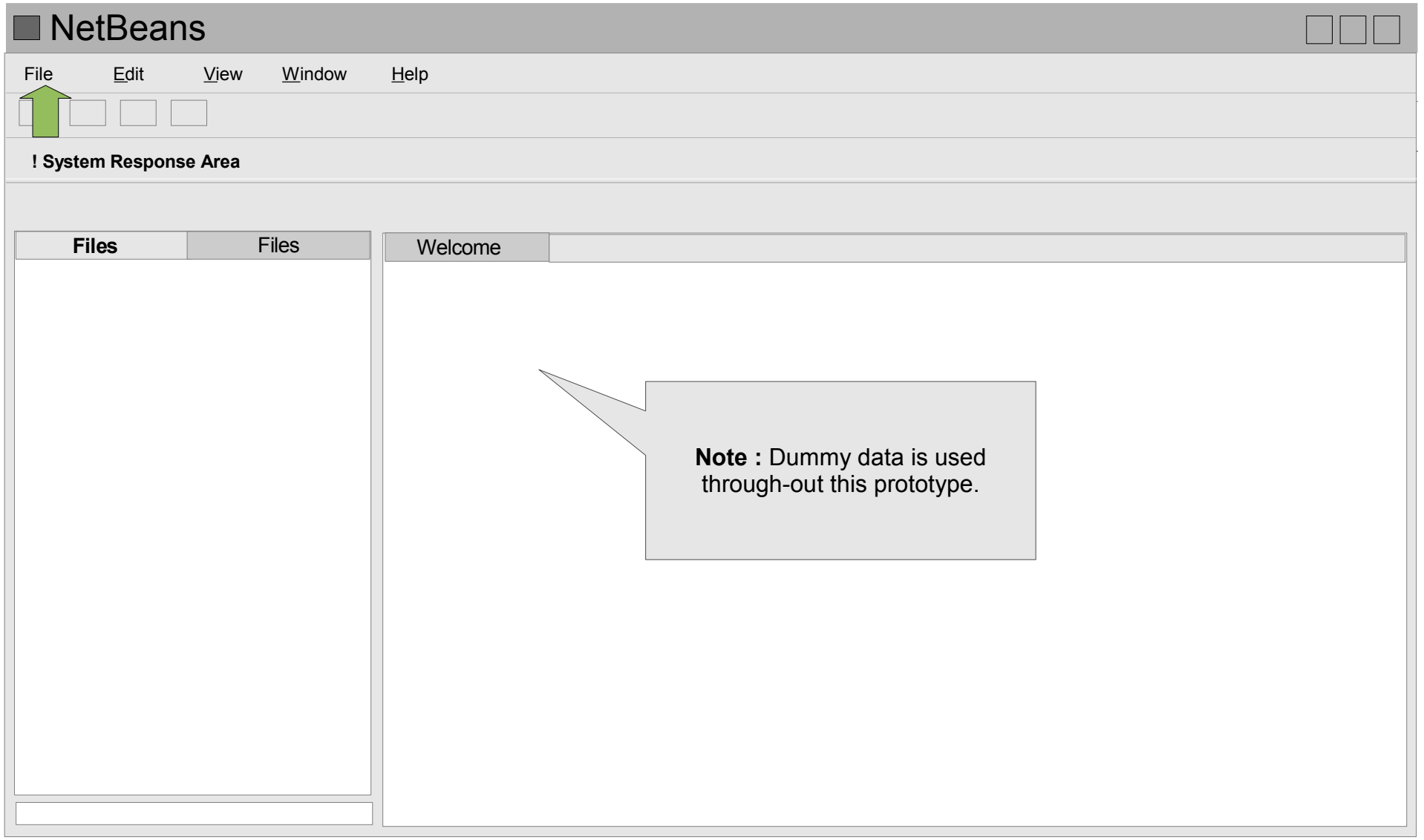
HTML Format >



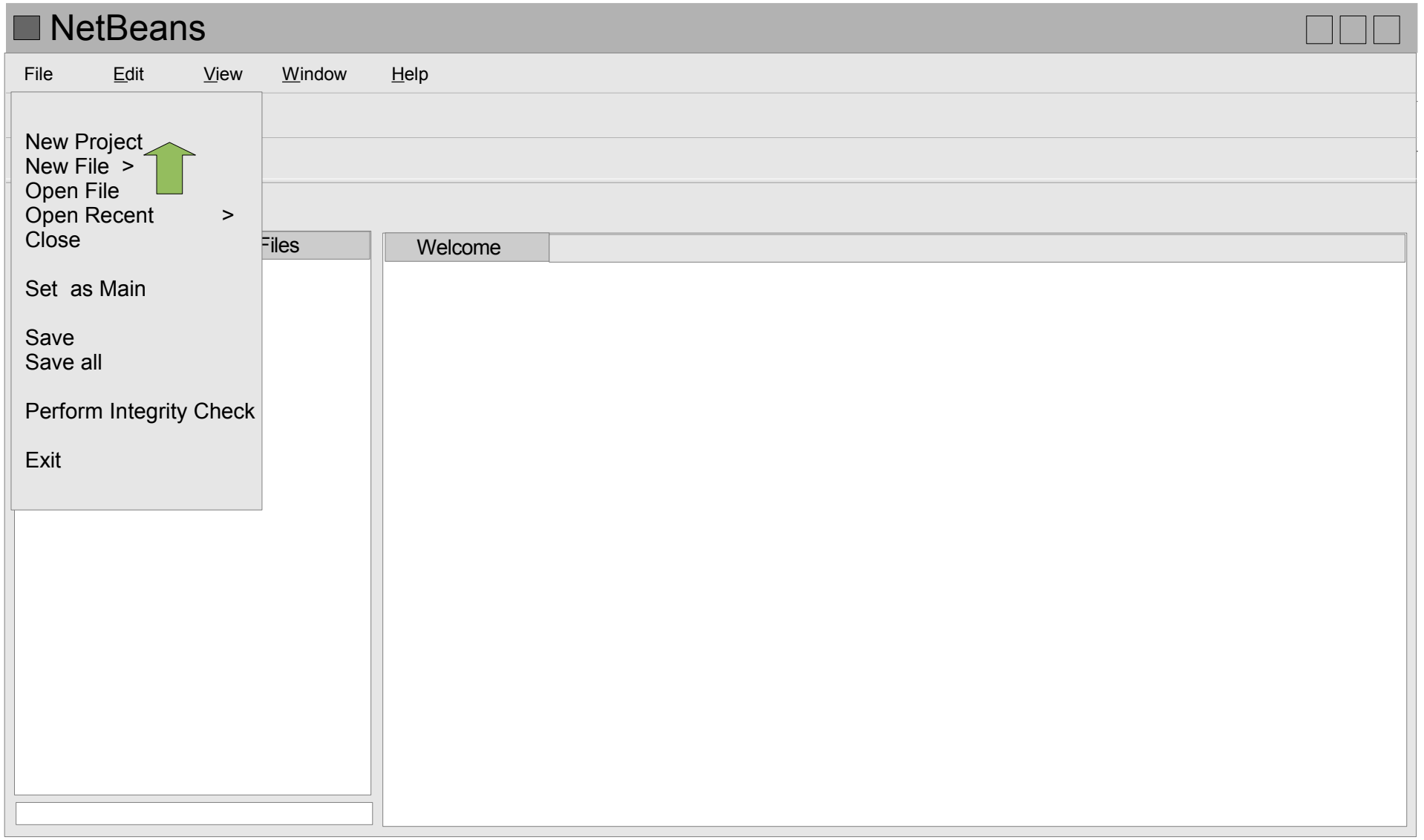
Welcome Screen



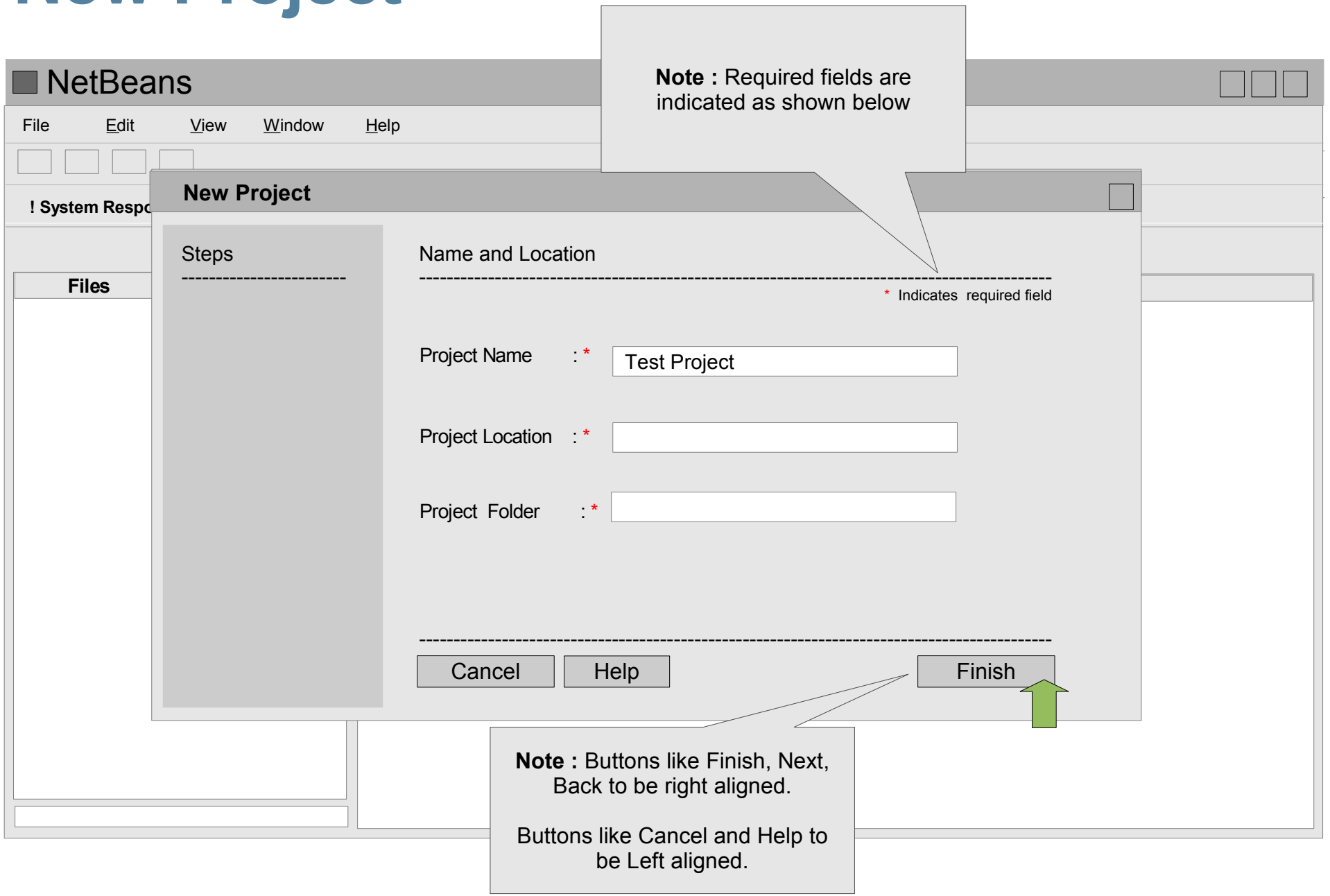
New Project


NetBeans
File
Edit
View
Window
Help
! System Response Area
Files
Files
Welcome
Note : Dummy data is used through-out this prototype.

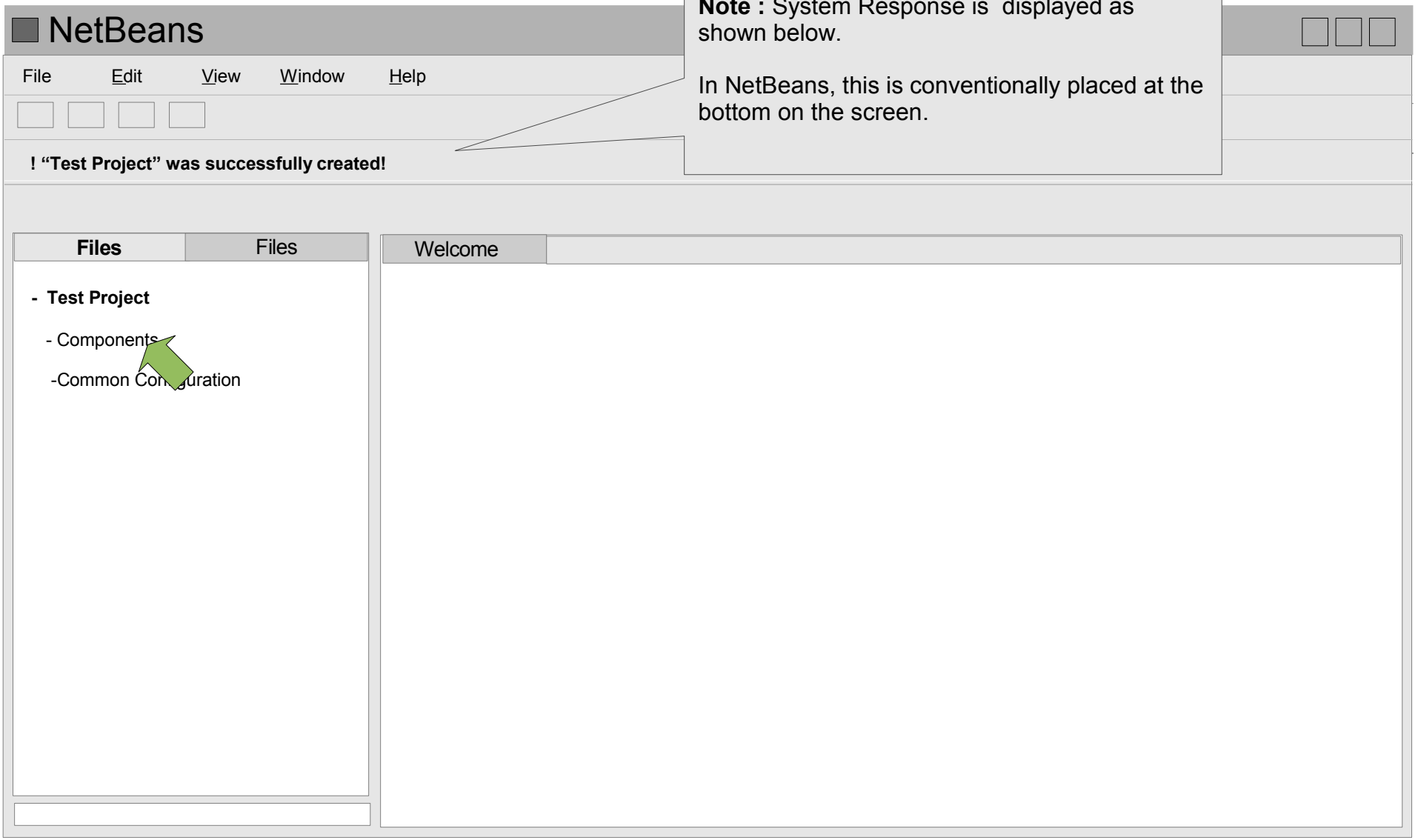
New Project


NetBeans
File
Edit
View
Window
Help
New Project
New File >
Open File
Open Recent >
Close
Set as Main
Save
Save all
Perform Integrity Check
Exit
Files
Welcome

New Project


NetBeans
File
Edit
View
Window
Help
! System Respo
Files
New Project
Steps
Name and Location
* Indicates required field
Project Name : *
Test Project
Project Location : *
Project Folder : *
Cancel
Help
Finish
Note : Required fields are indicated as shown below
Note : Buttons like Finish, Next, Back to be right aligned.
Buttons like Cancel and Help to be Left aligned.

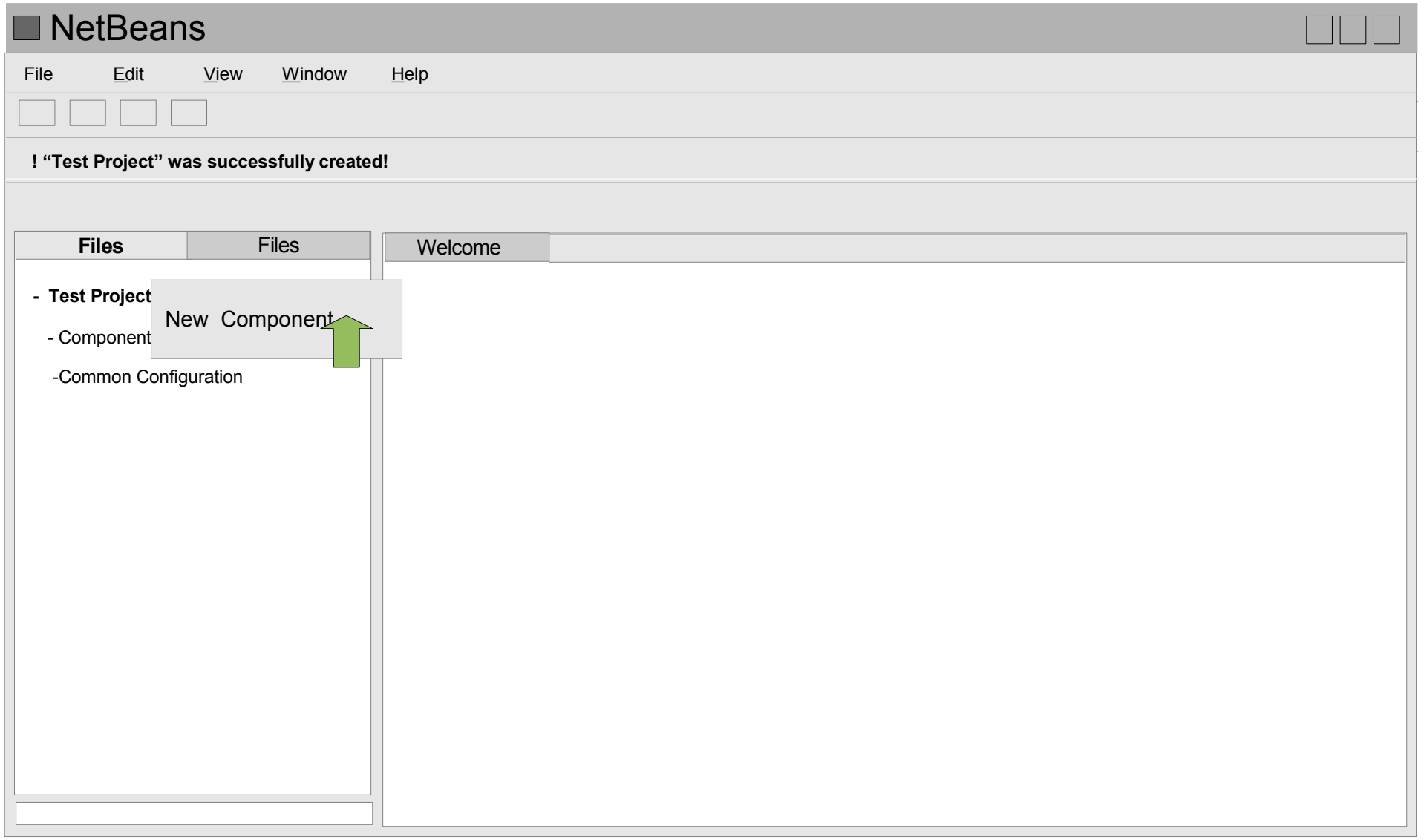
New Component



Note : System Response is displayed as shown below.

In NetBeans, this is conventionally placed at the bottom on the screen.

New Component



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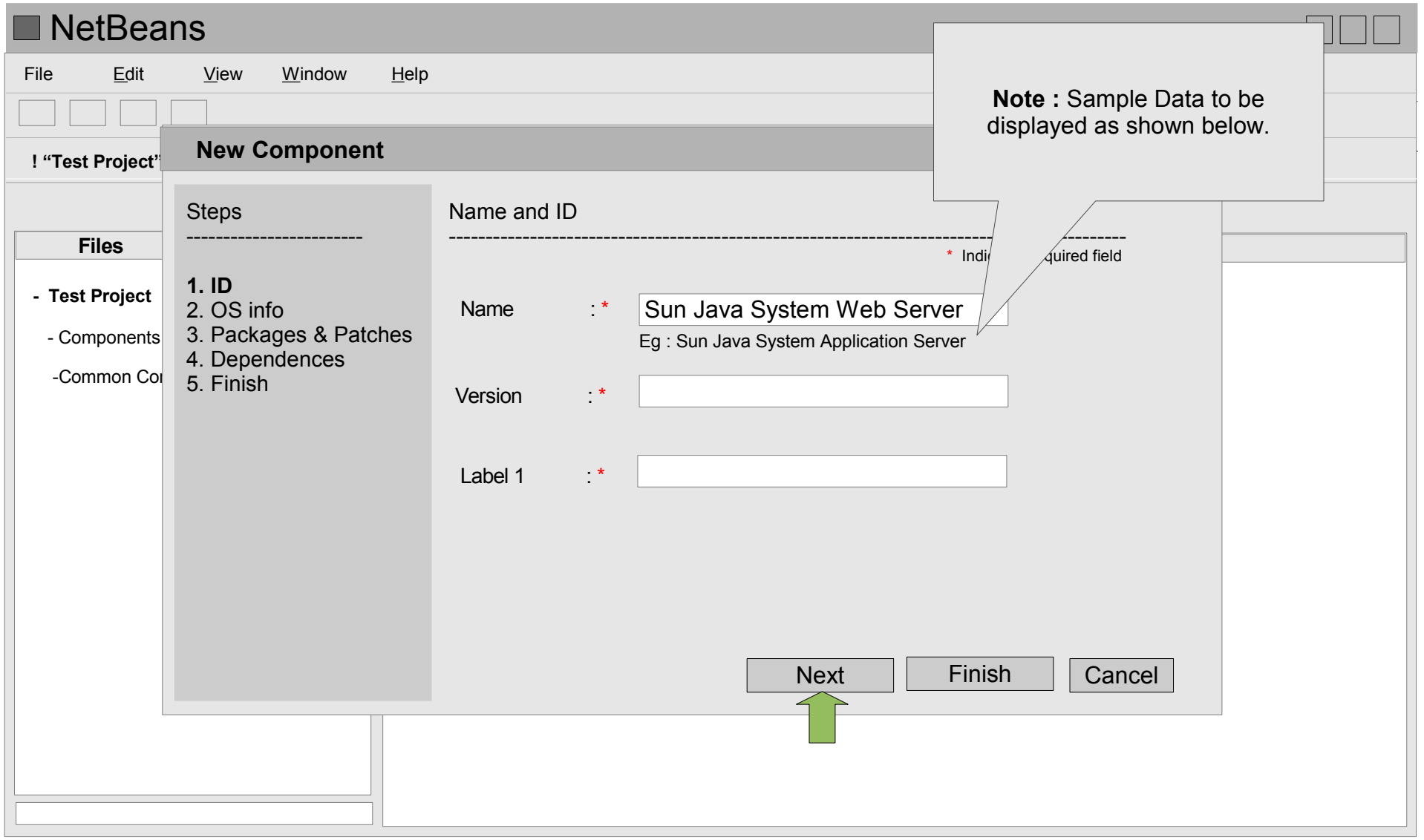
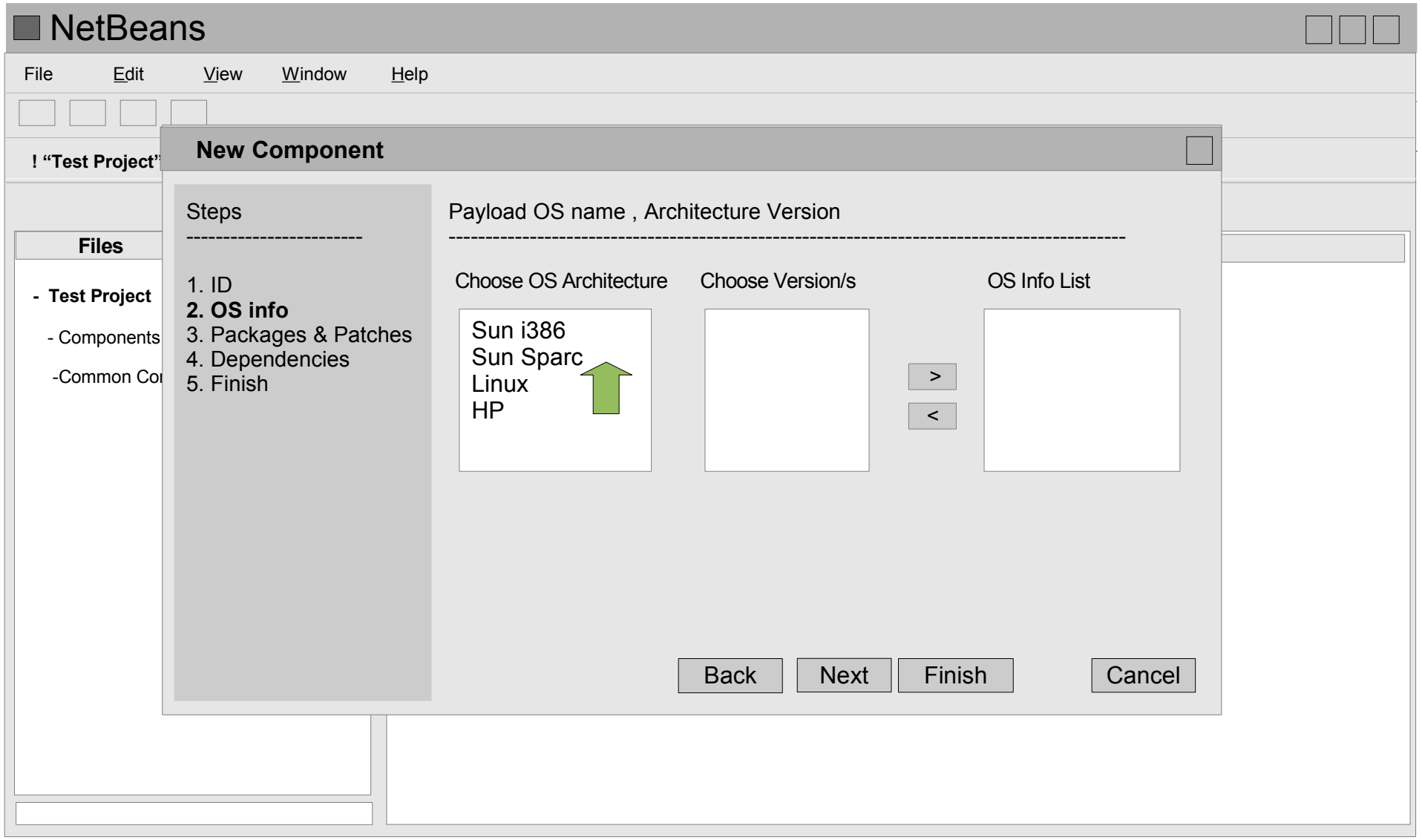


New Component : OS+version info



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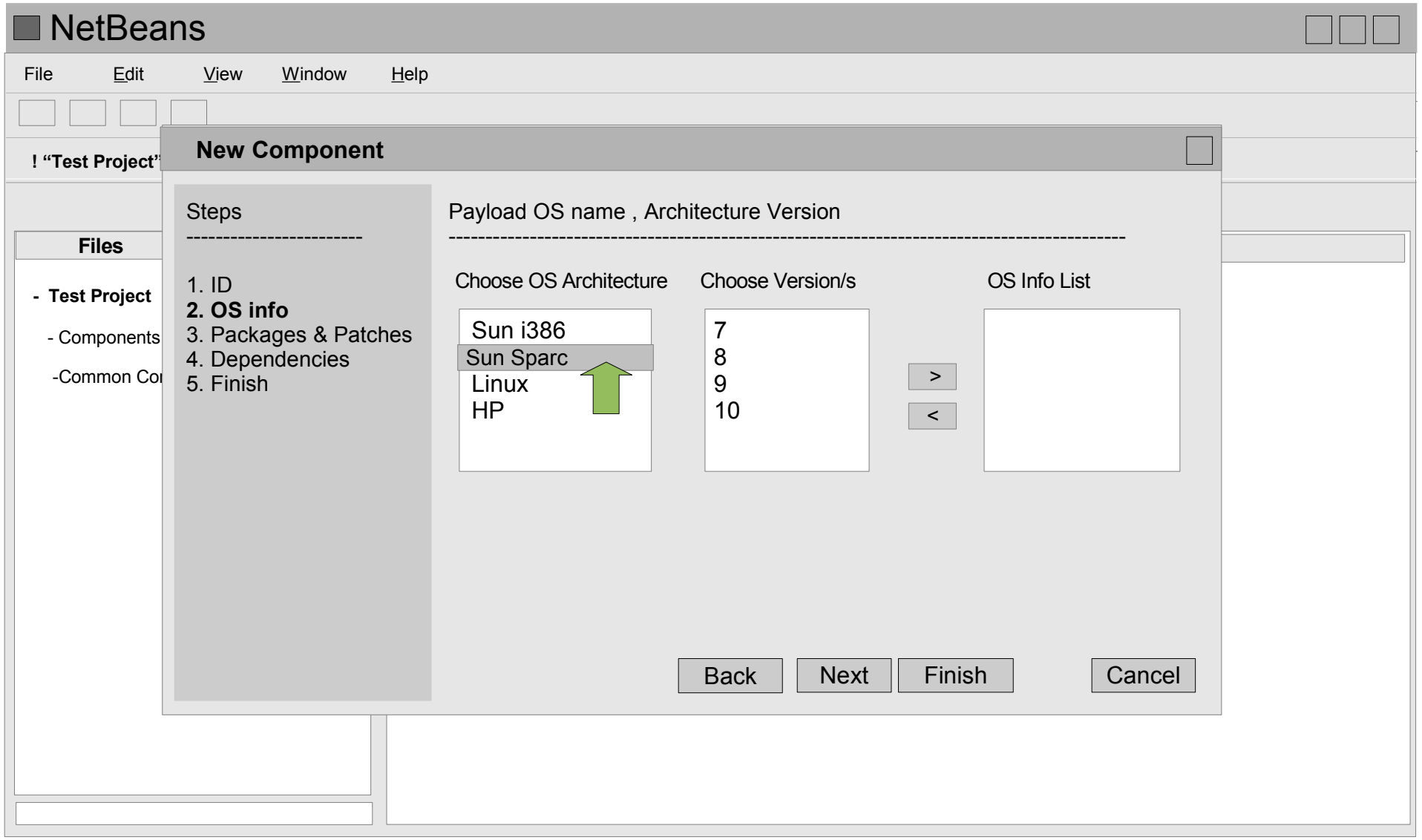

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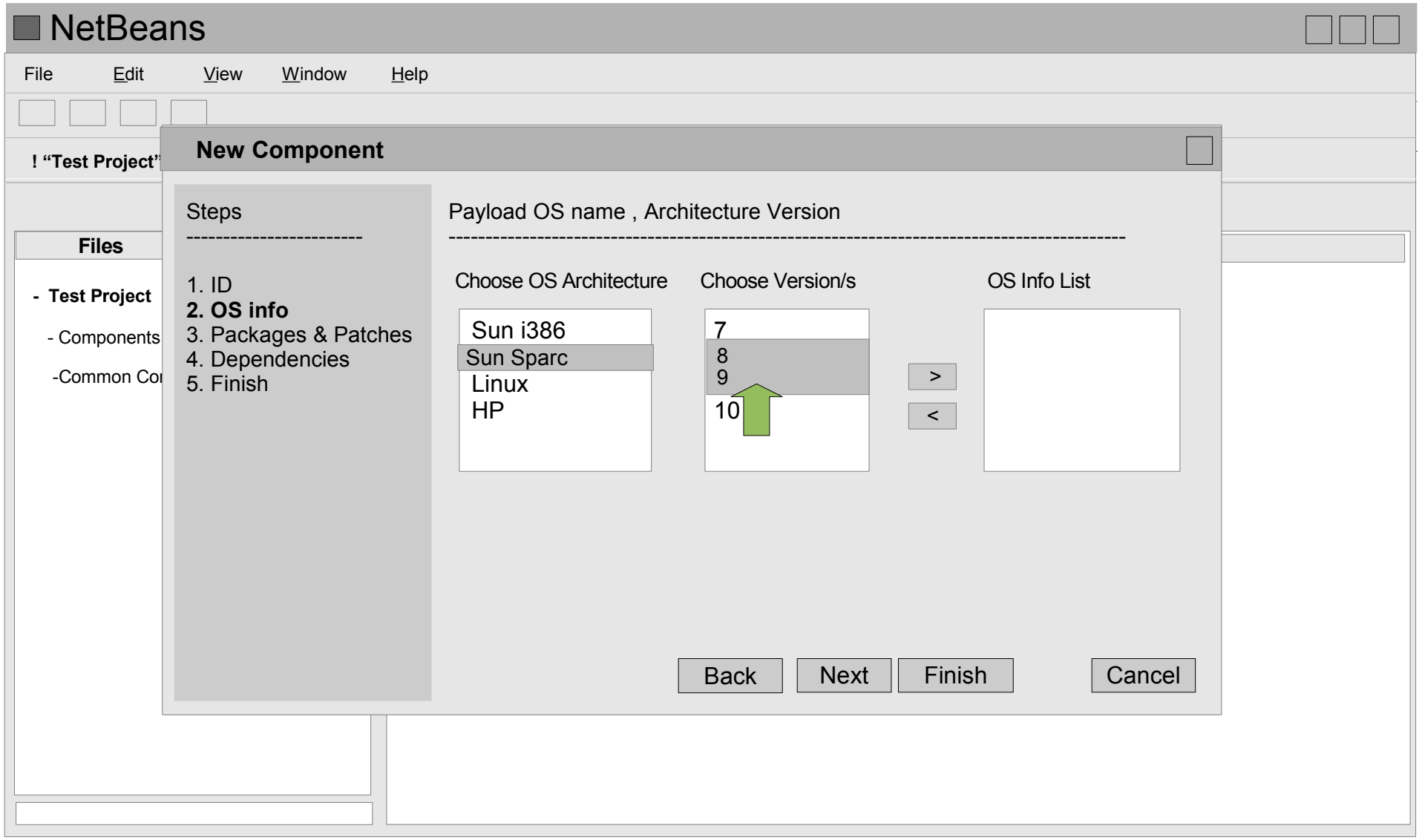
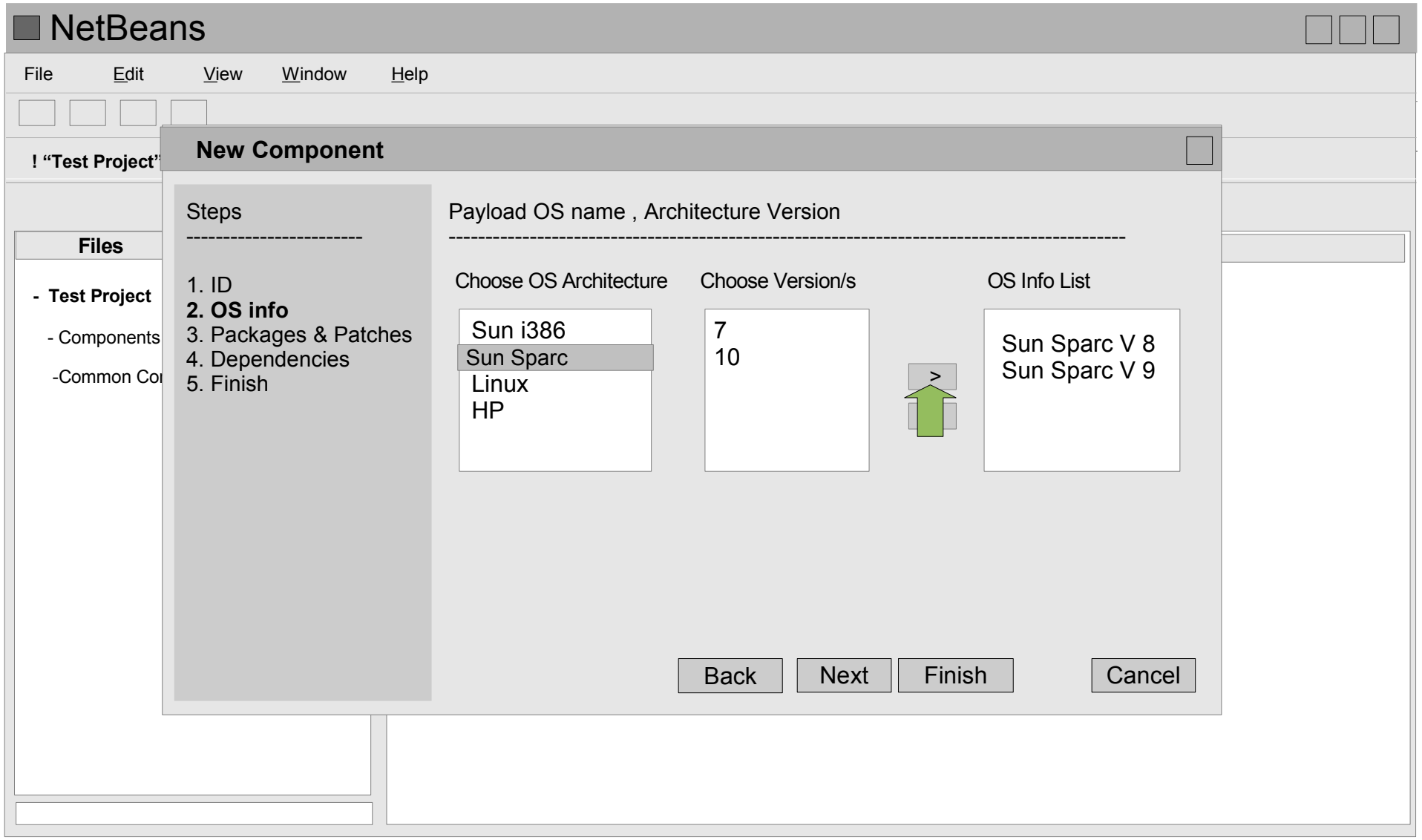
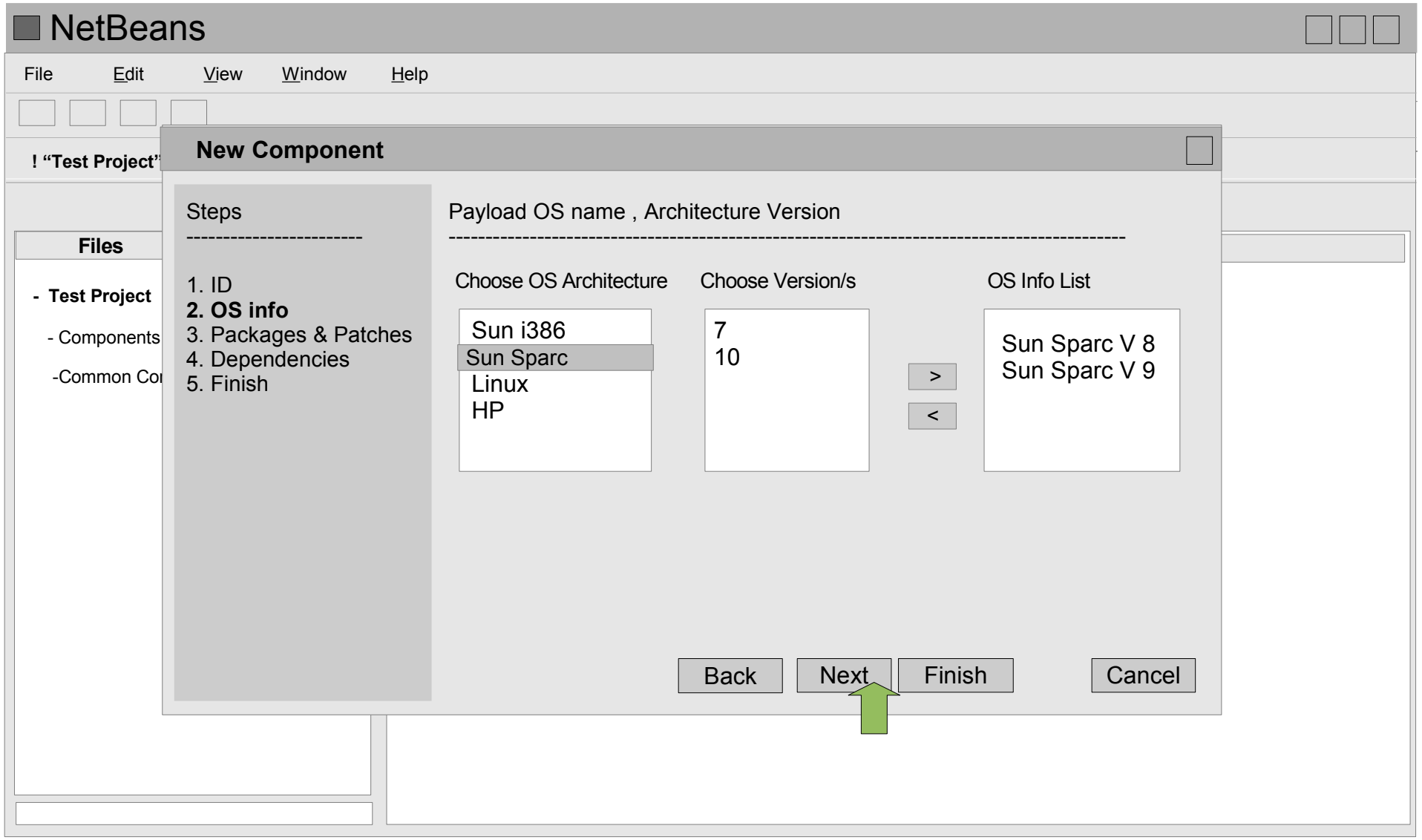


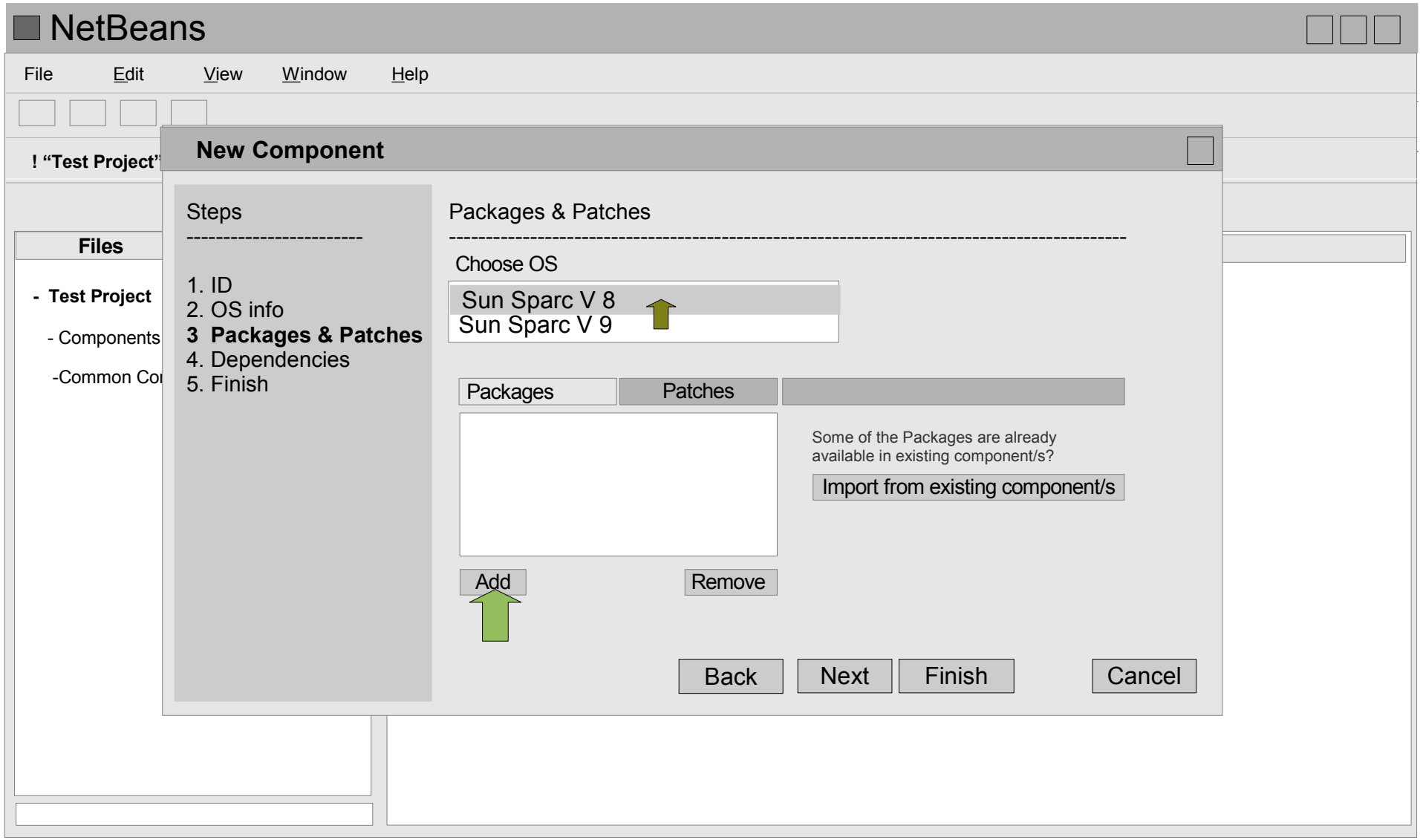
New Component : OS+version info



New Component : OS+version info



New Component : Packages & Patches : Option 1



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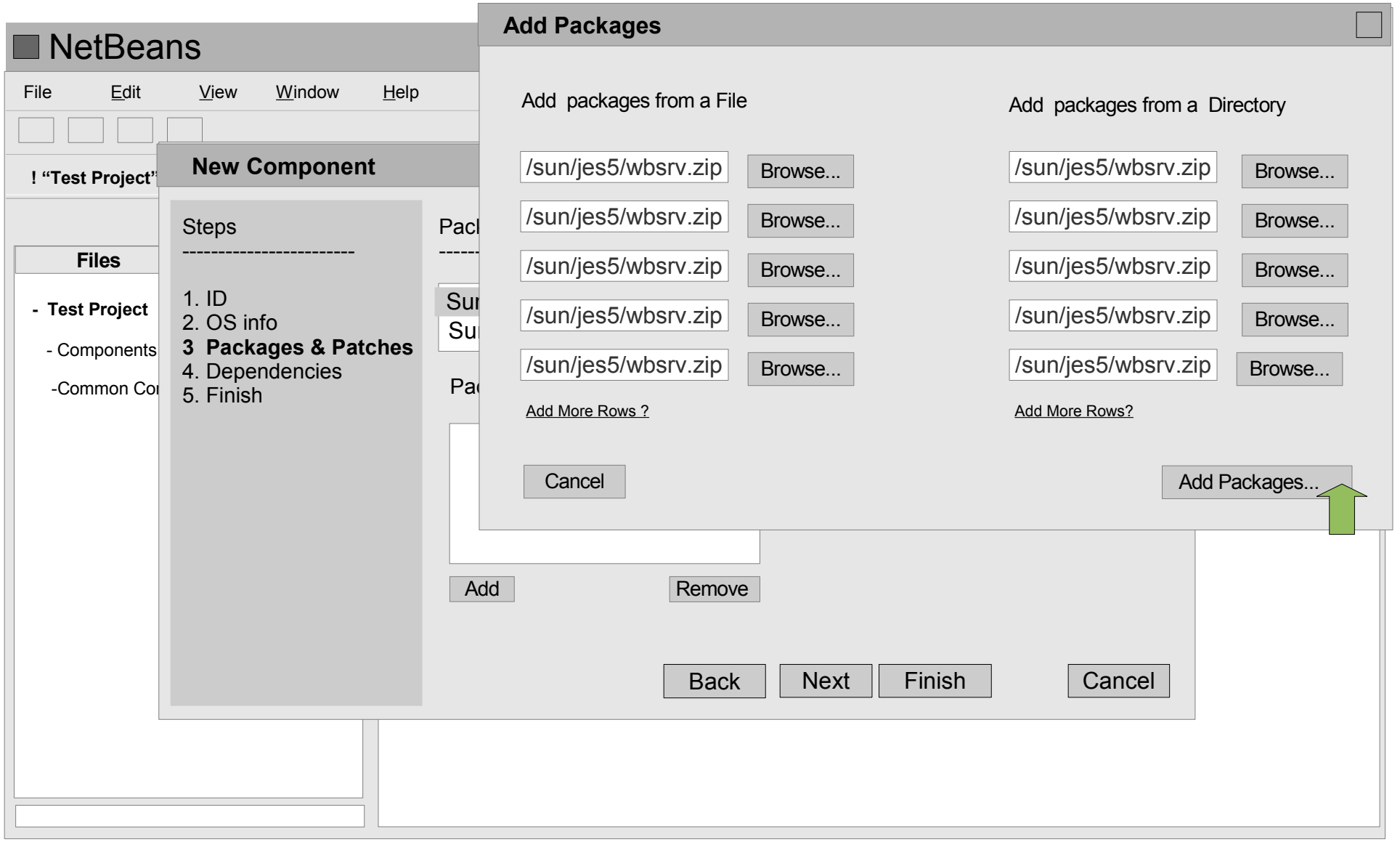

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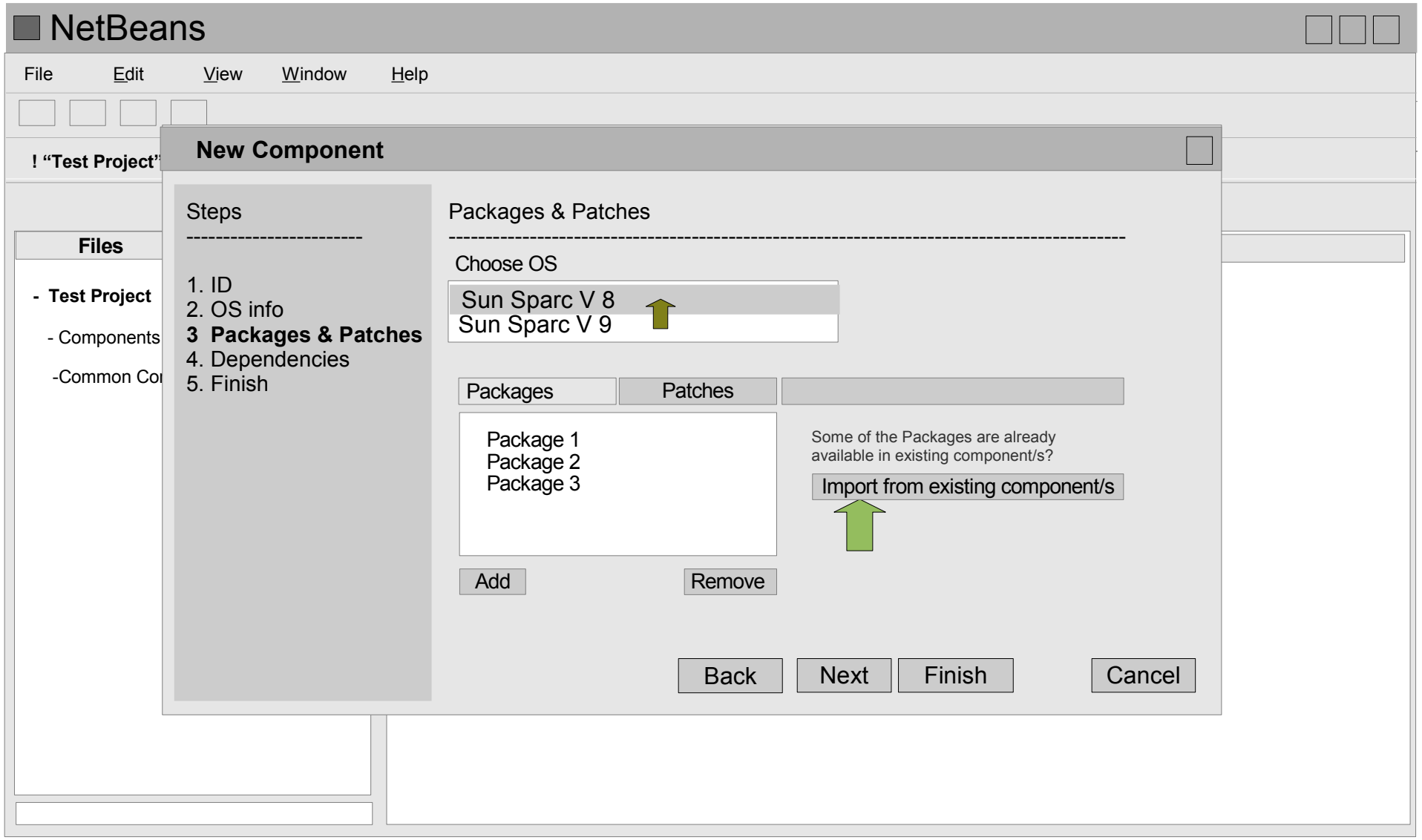
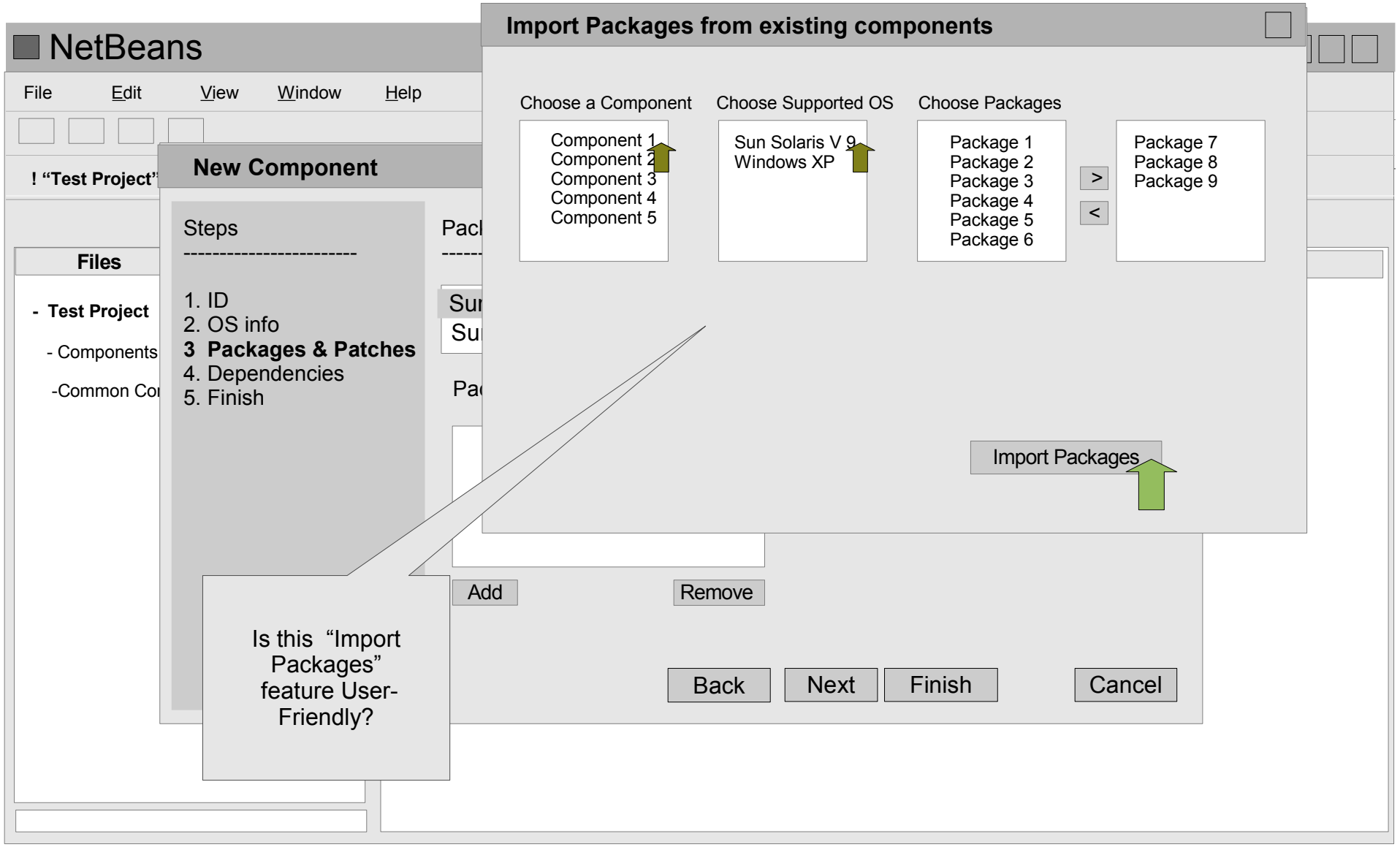
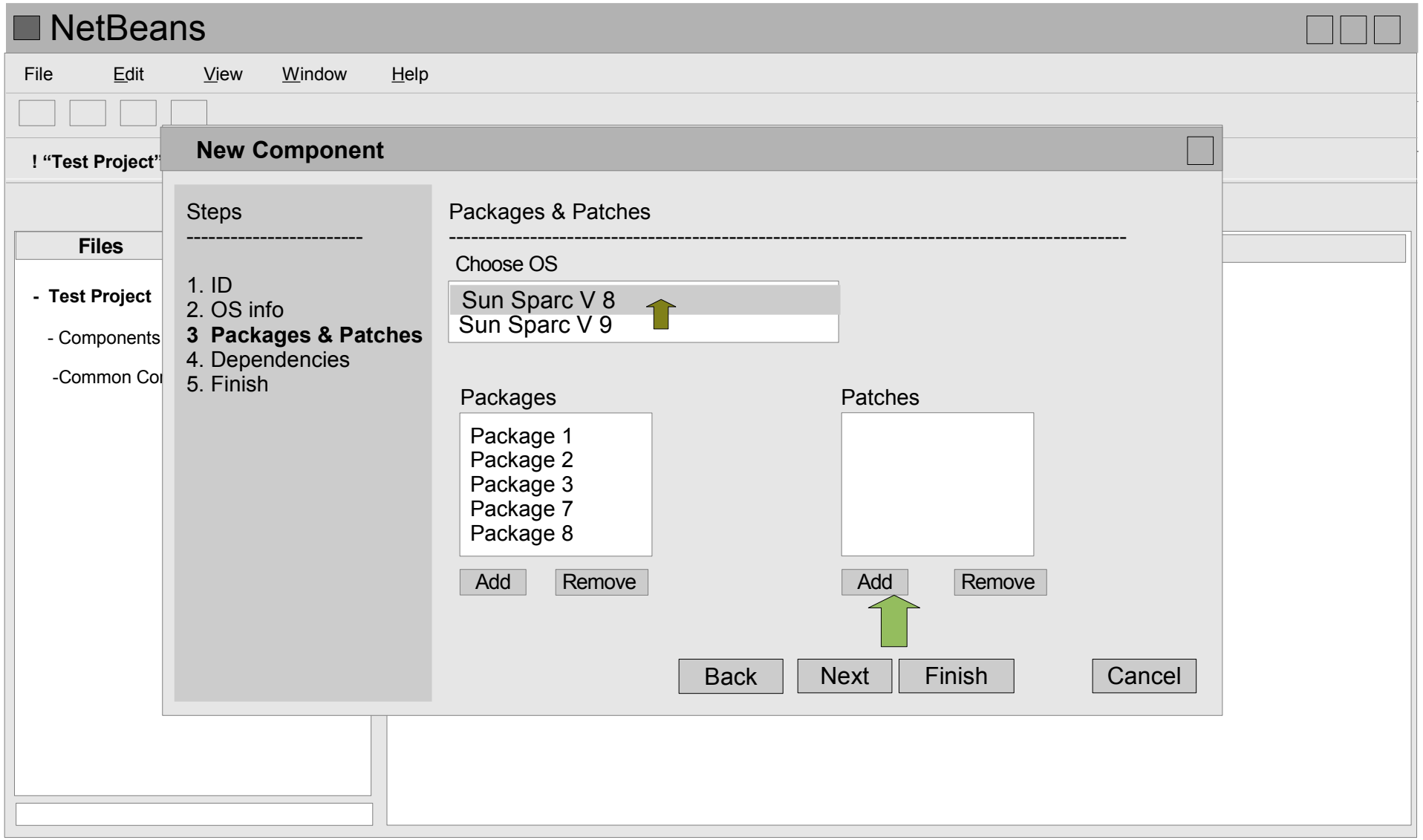


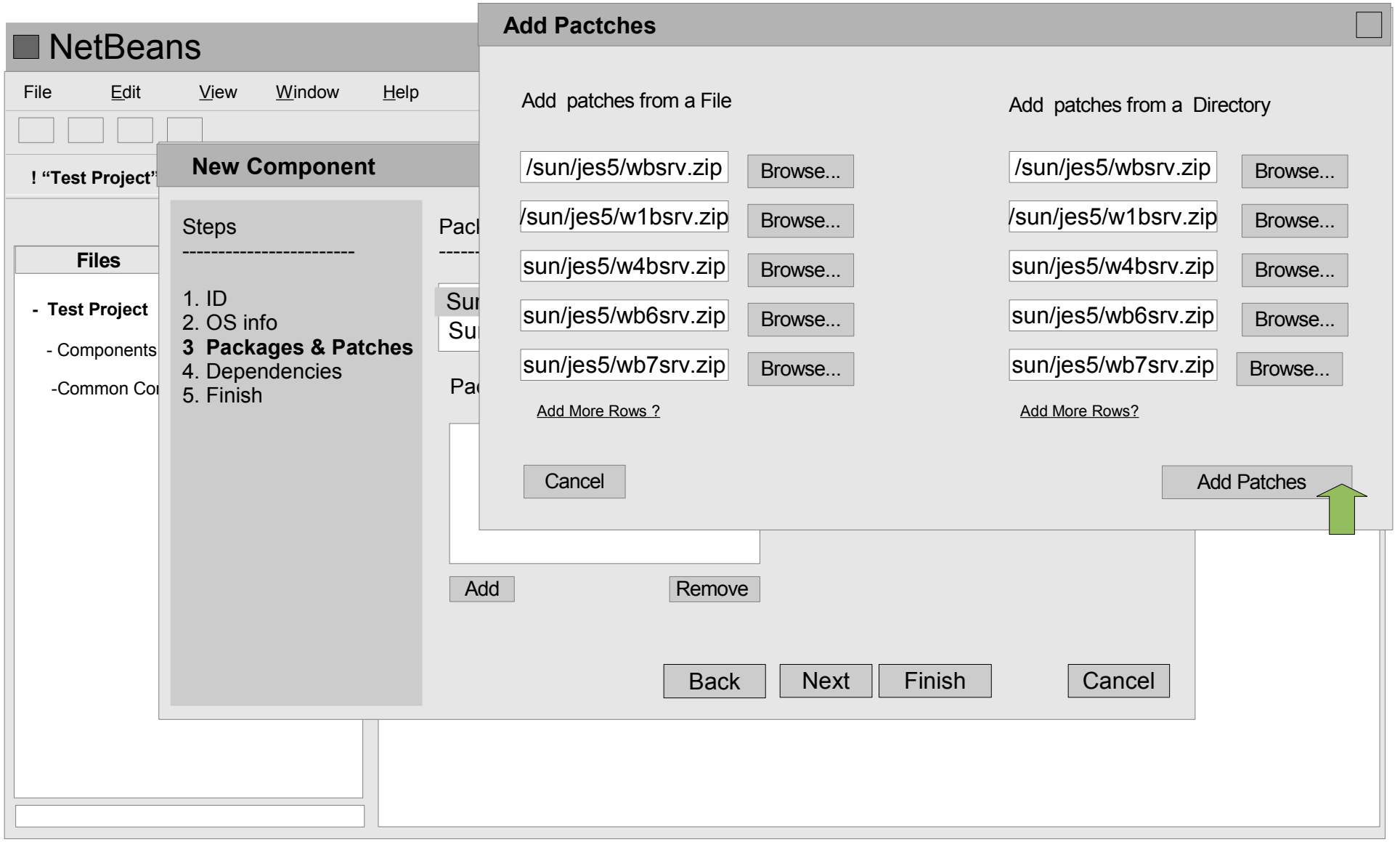
New Component : Packages & Patches



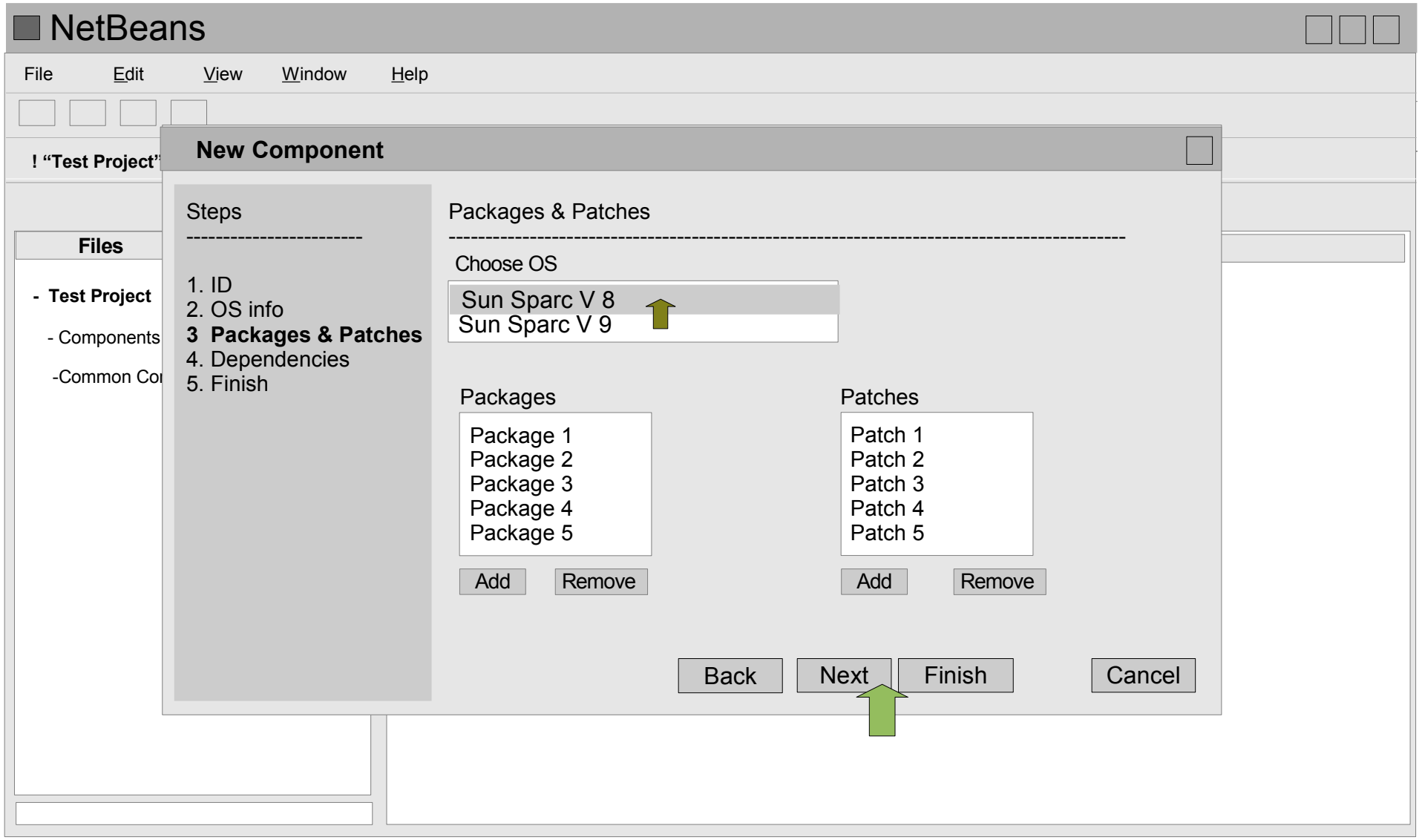
New Component : Packages & Patches : Option 2



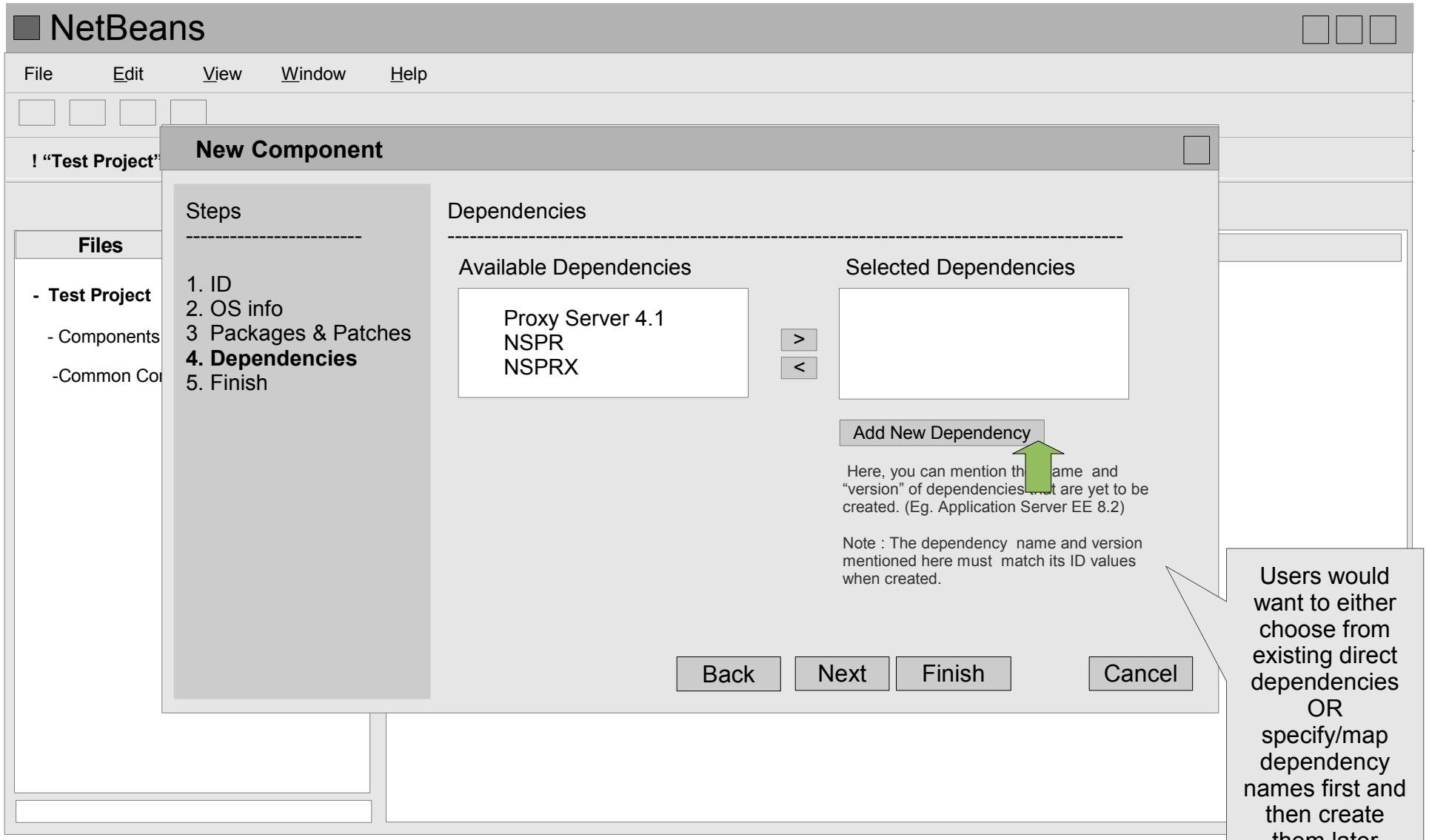
New Component : Packages & Patches



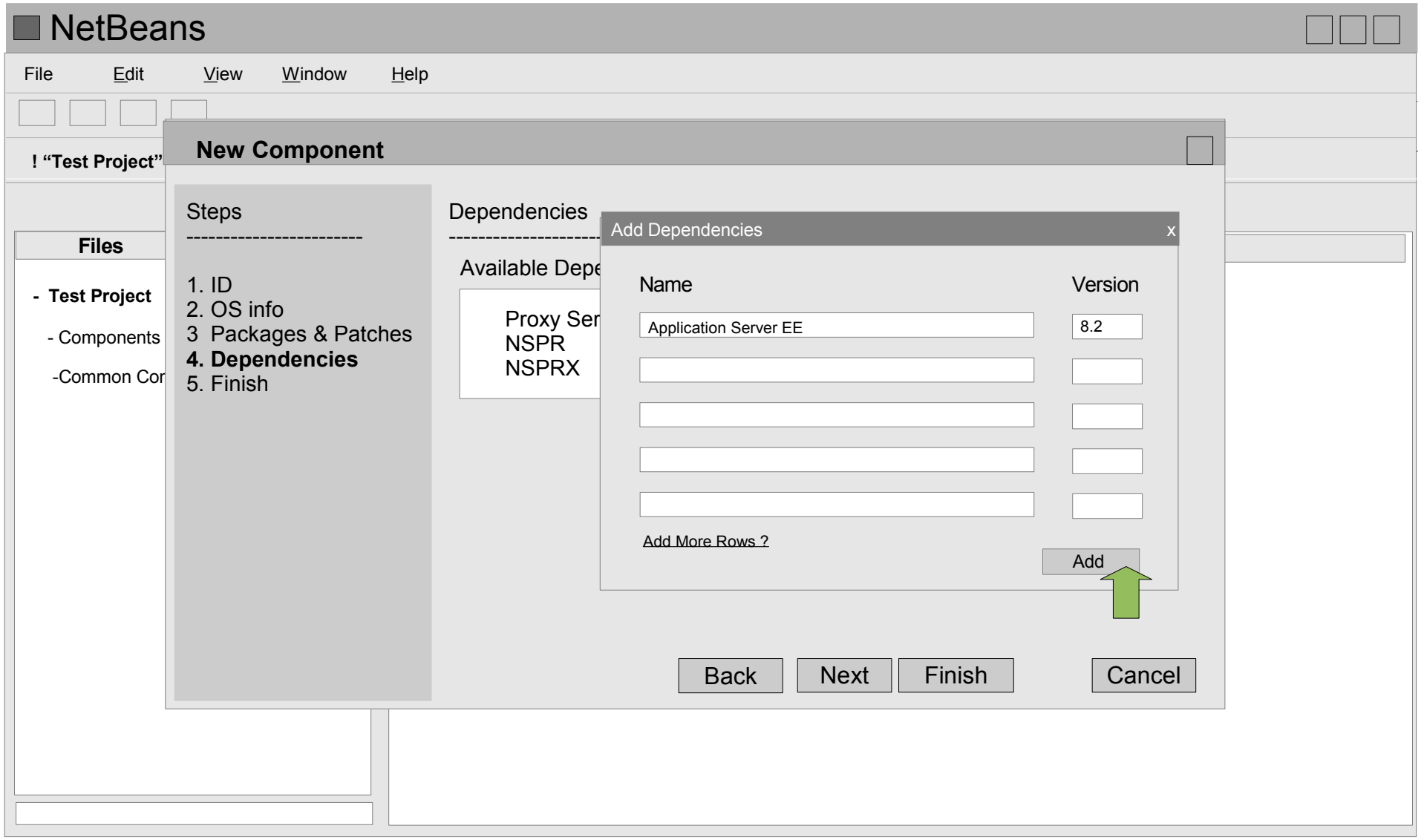
New Component : Packages & Patches



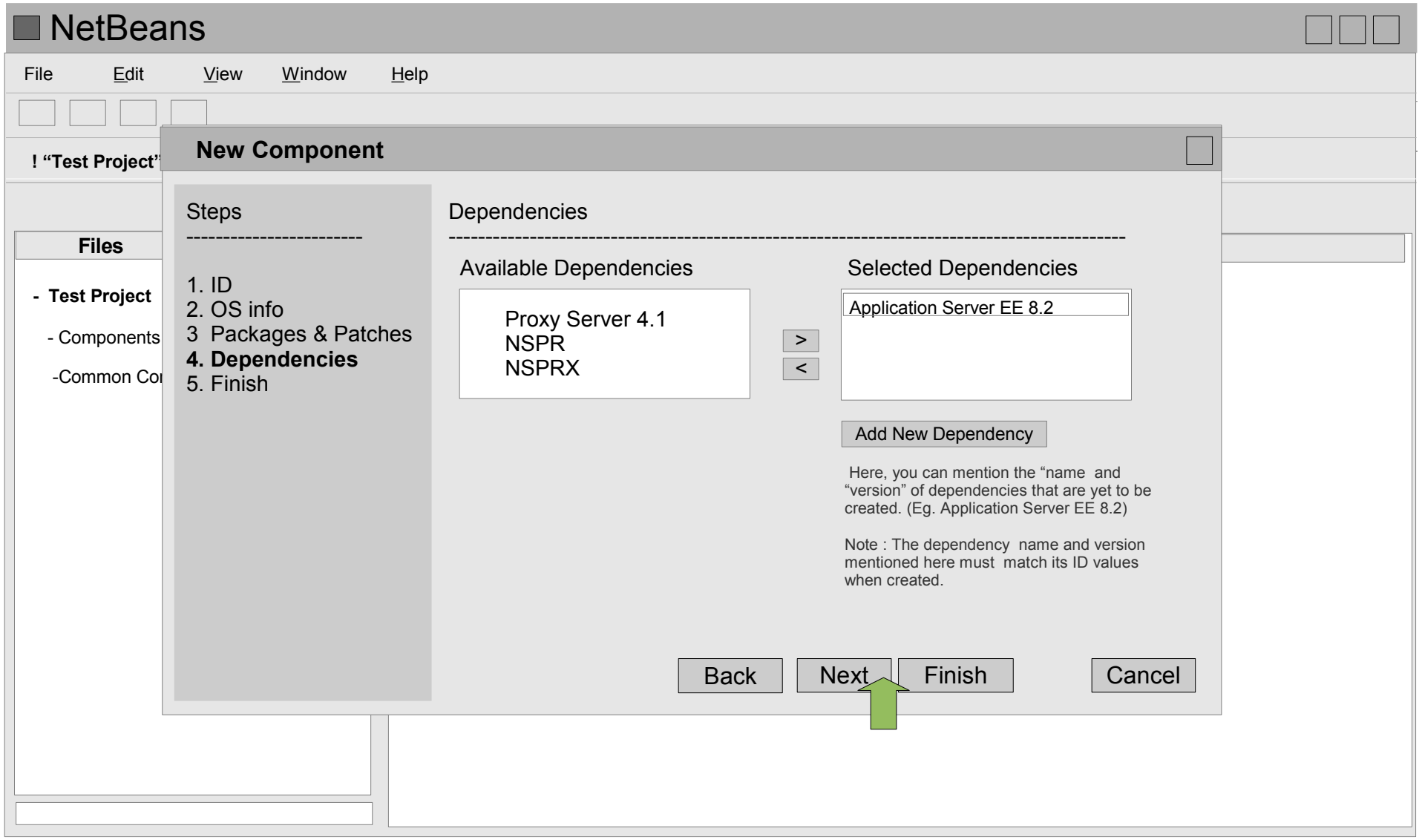
New Component : Dependencies



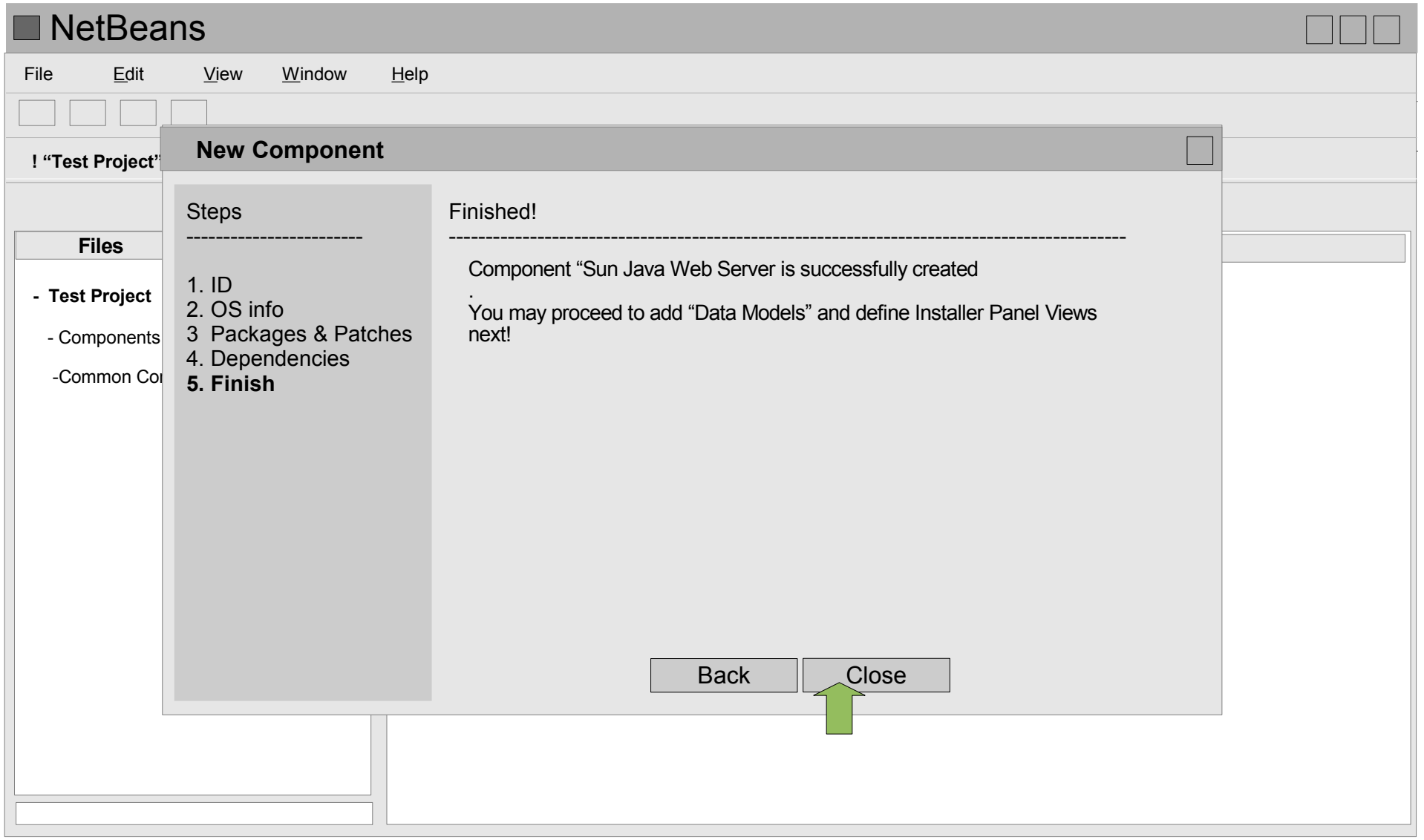
New Component : Dependencies



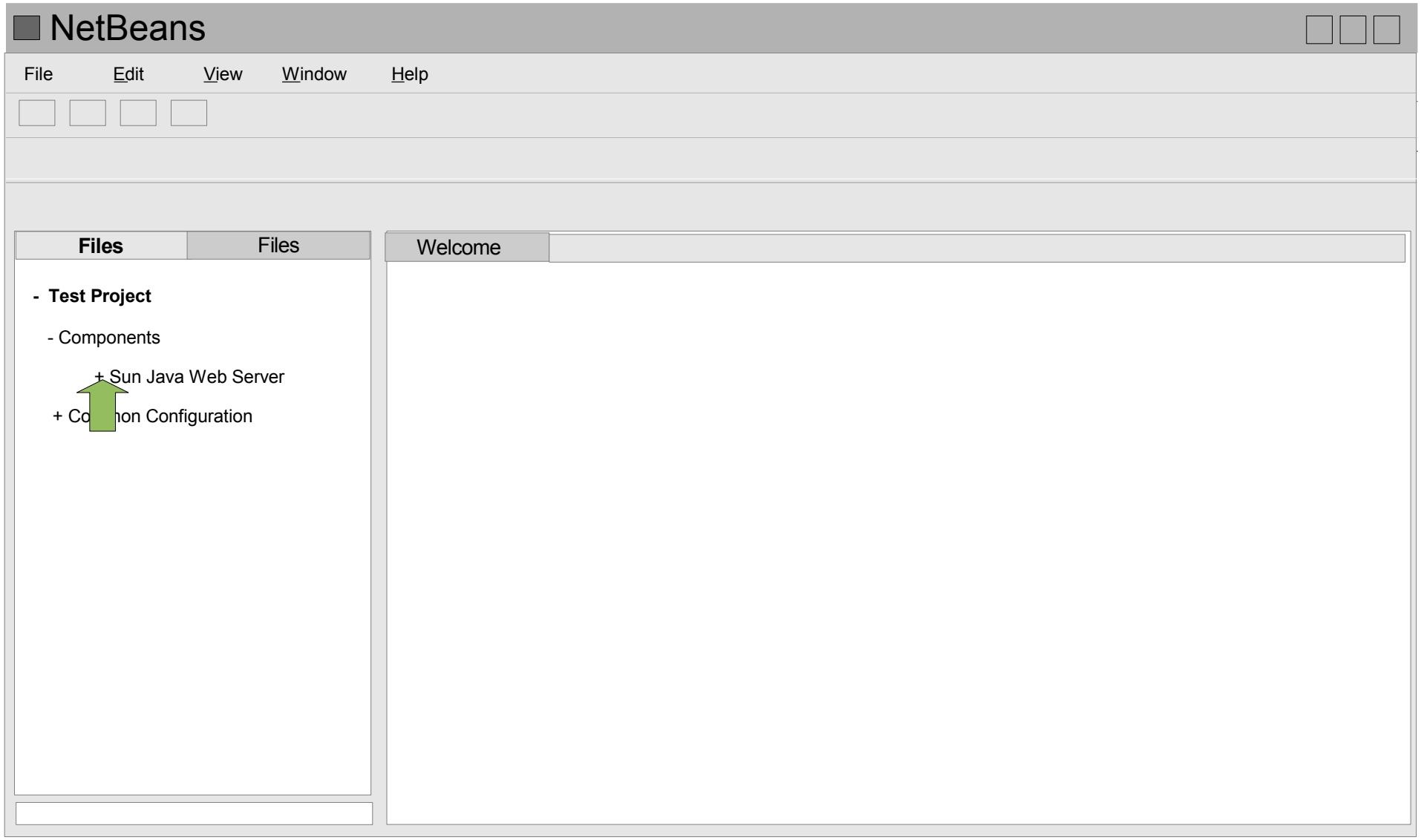
New Component : Dependencies



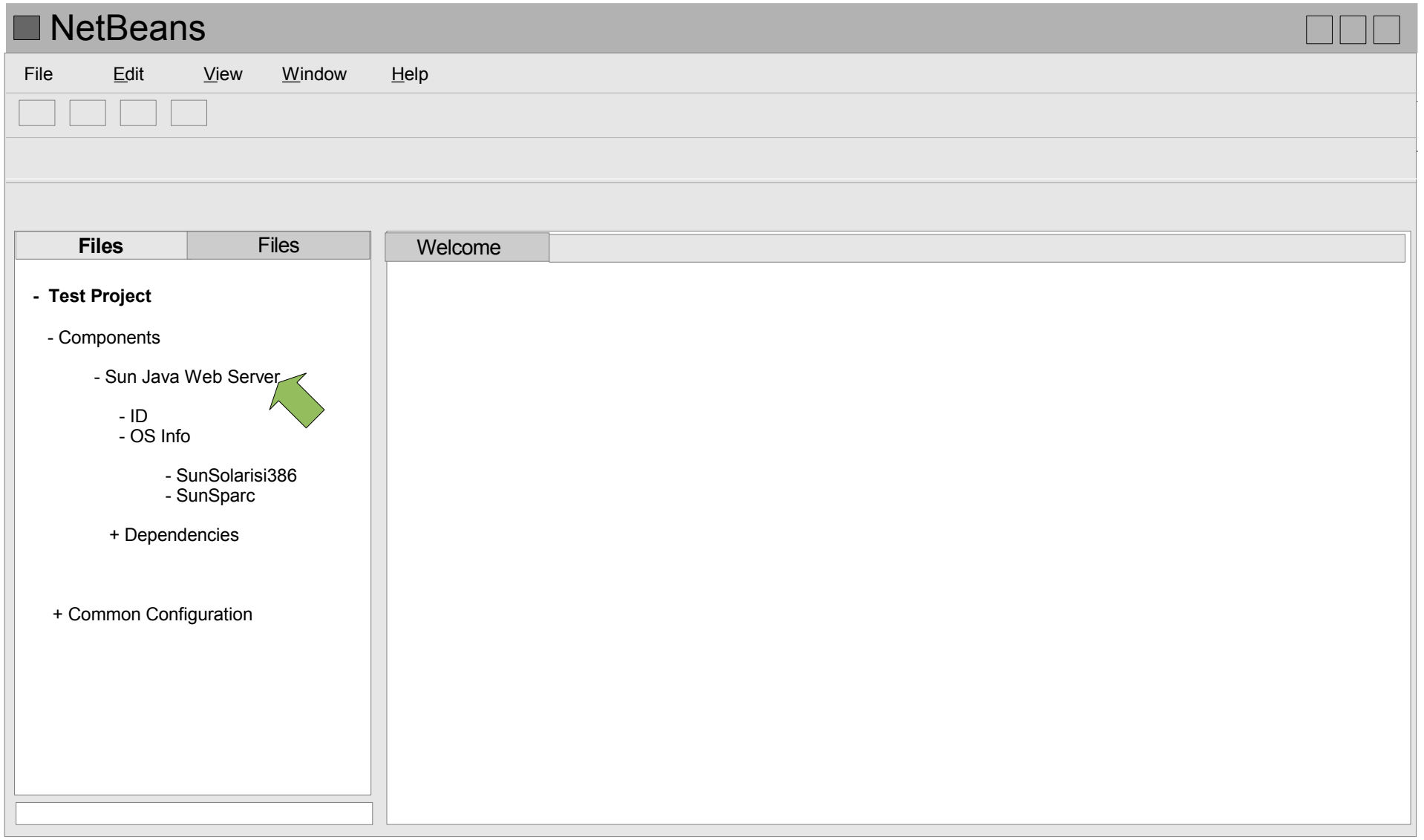
New Component : Finish



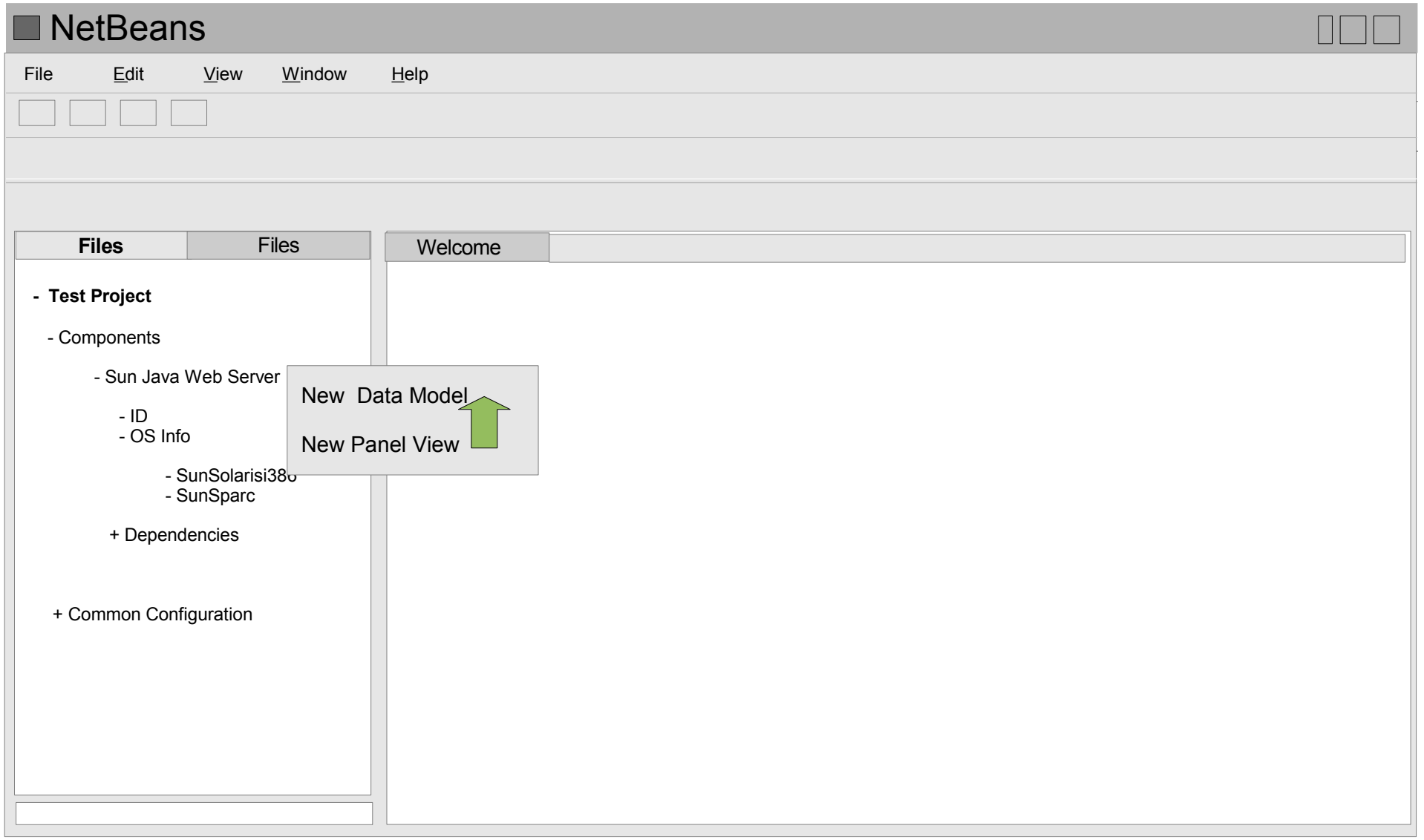
Component


NetBeans
File
Edit
View
Window
Help
Files
Files
- Test Project
- Components
+ Sun Java Web Server
+ Common Configuration
Welcome

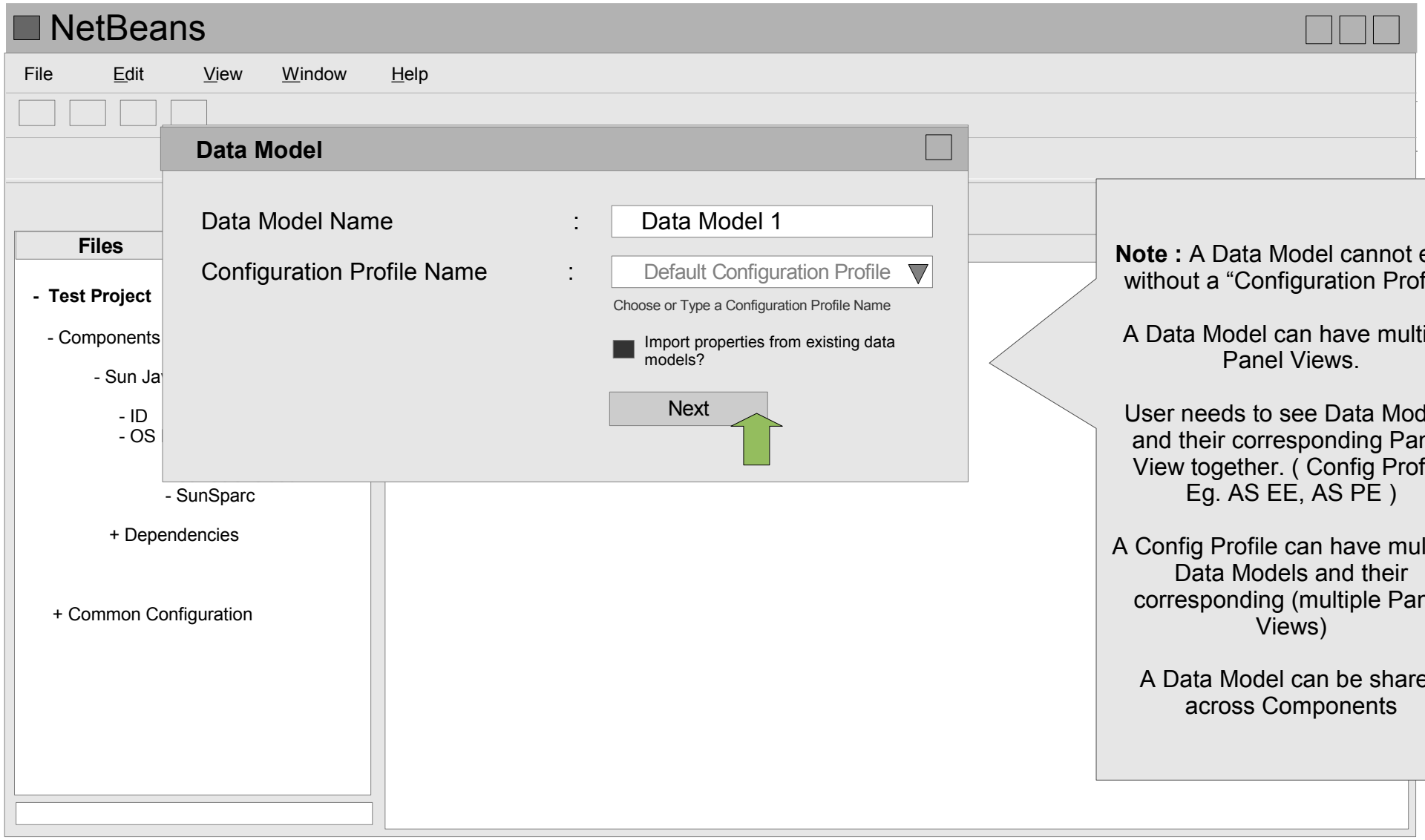
New Data Model



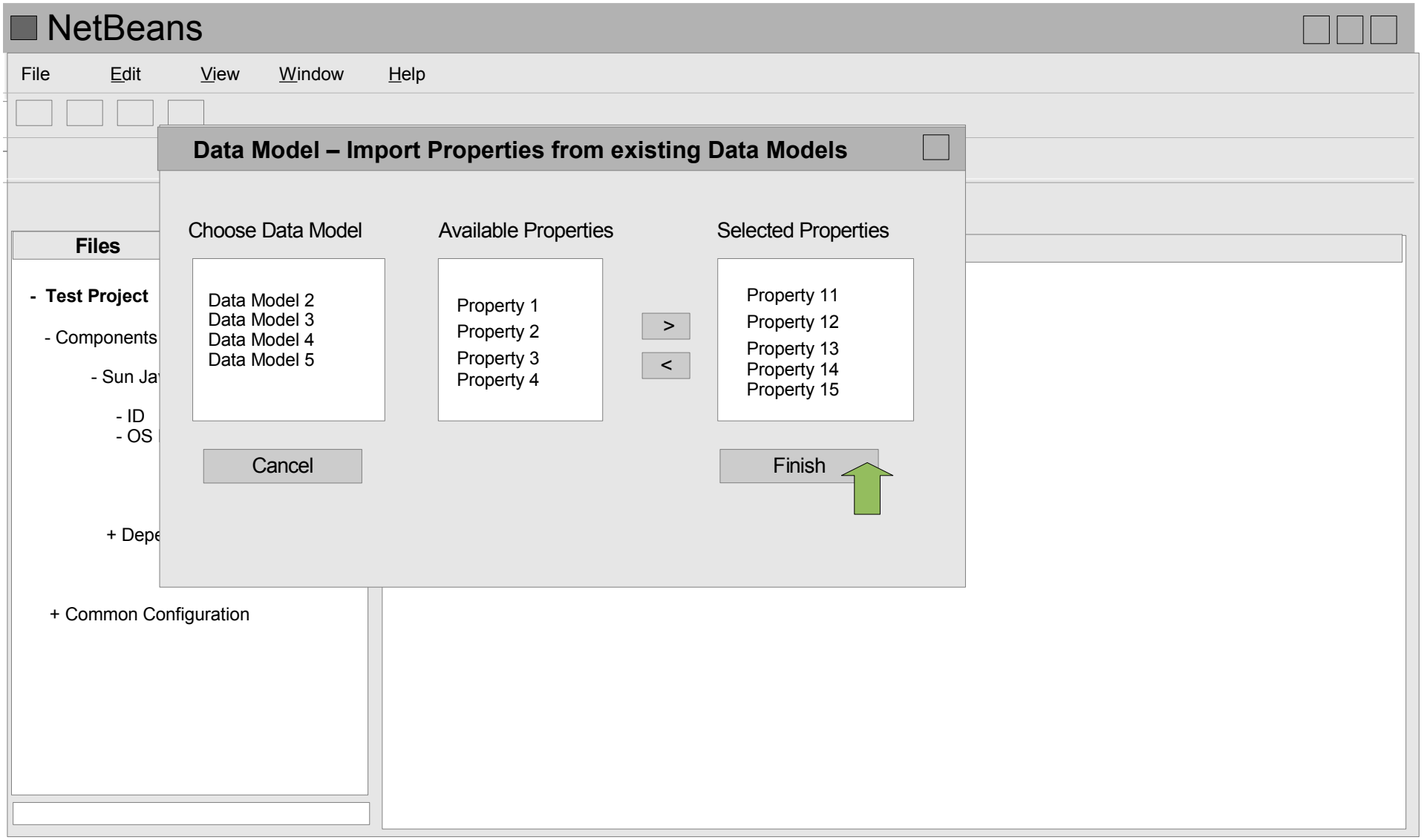
New Data Model



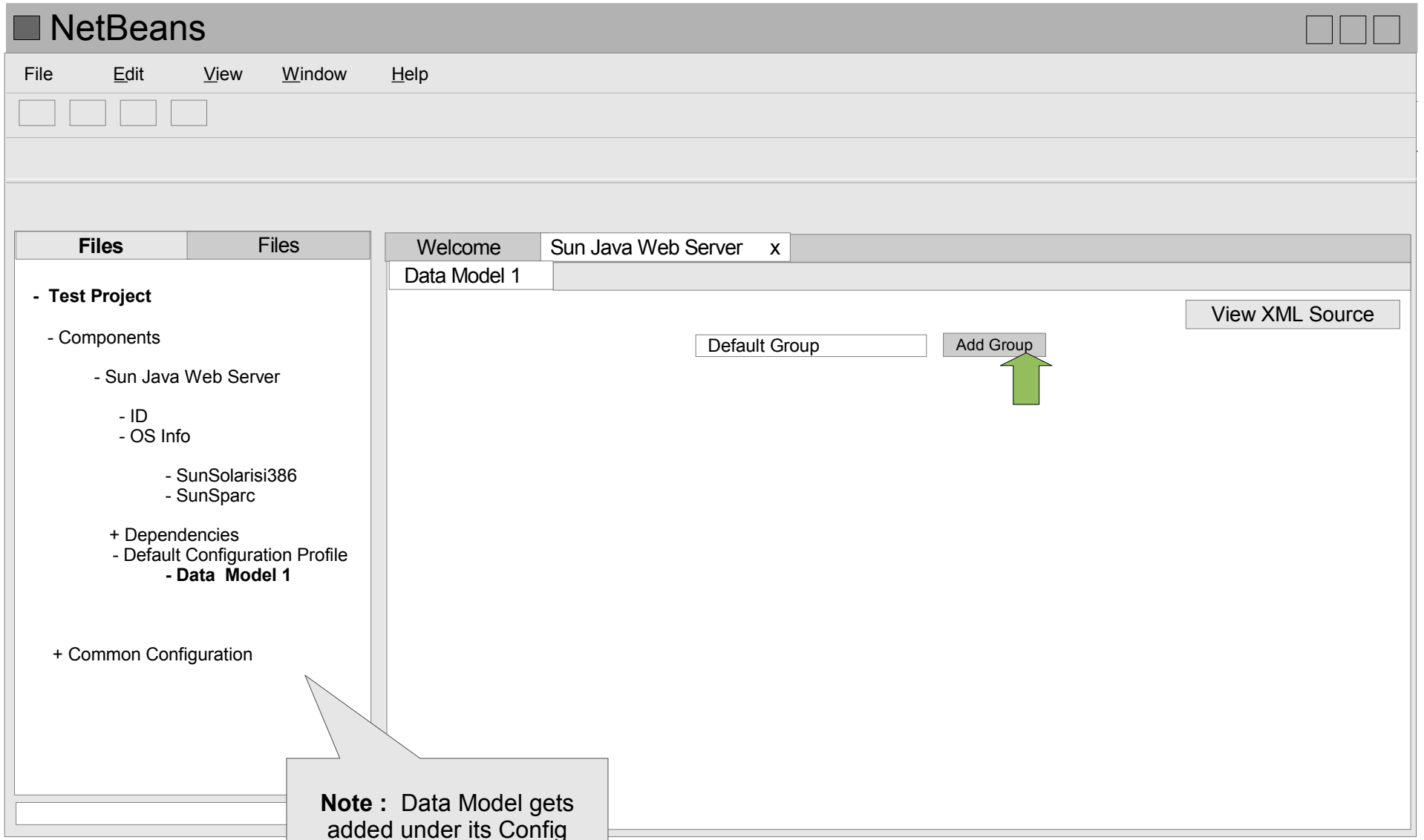
New Data Model



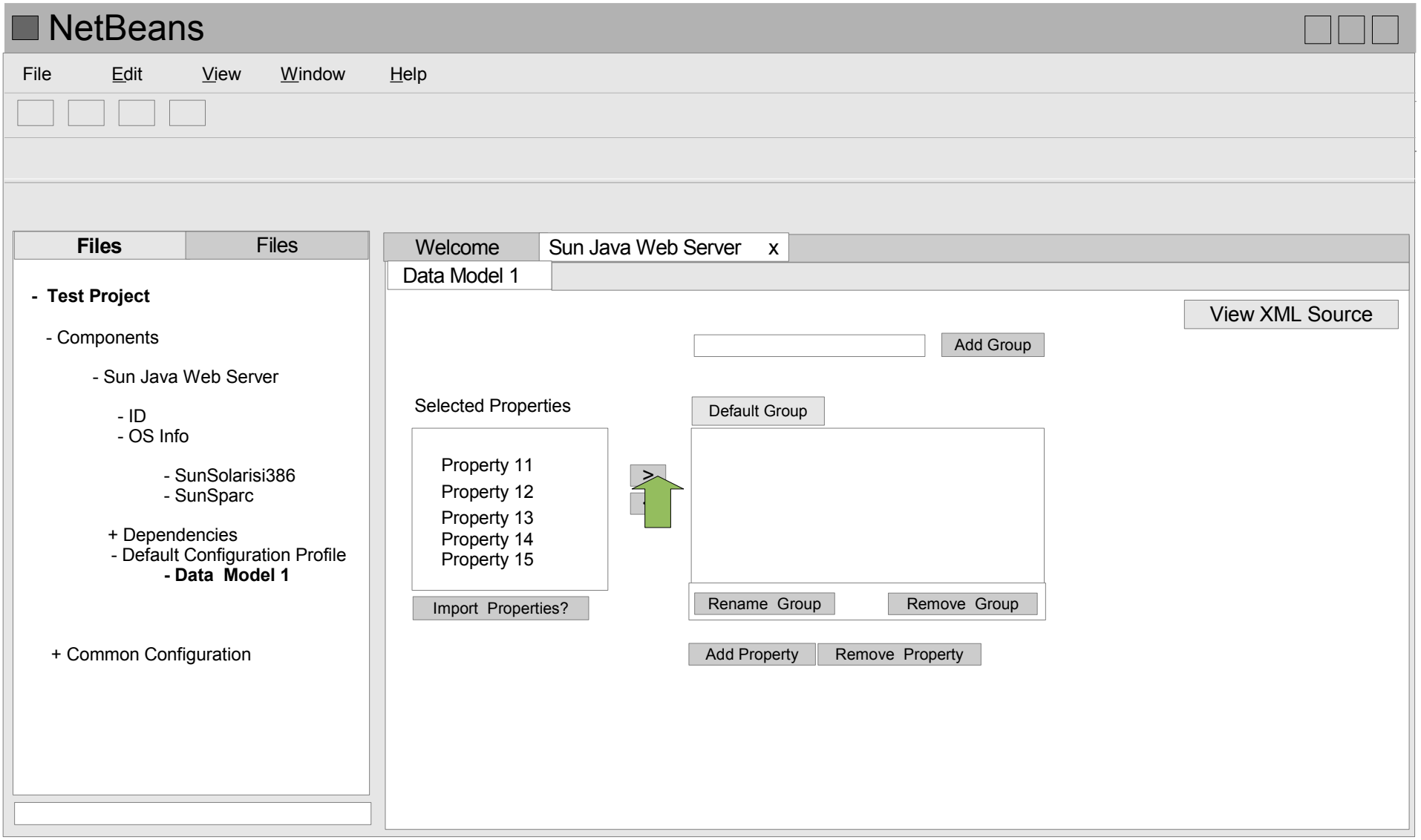
New Data Model



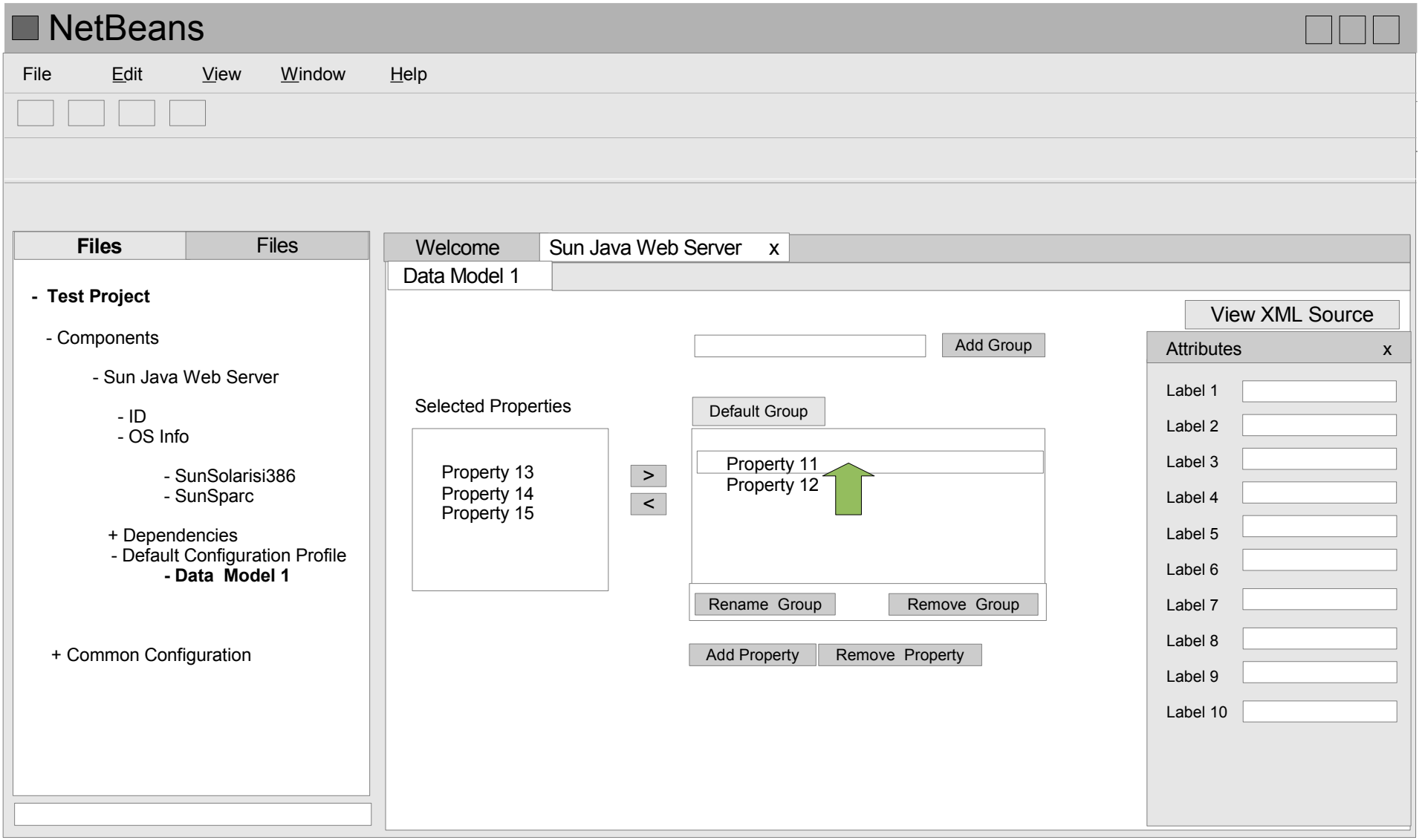
New Data Model – Add Data



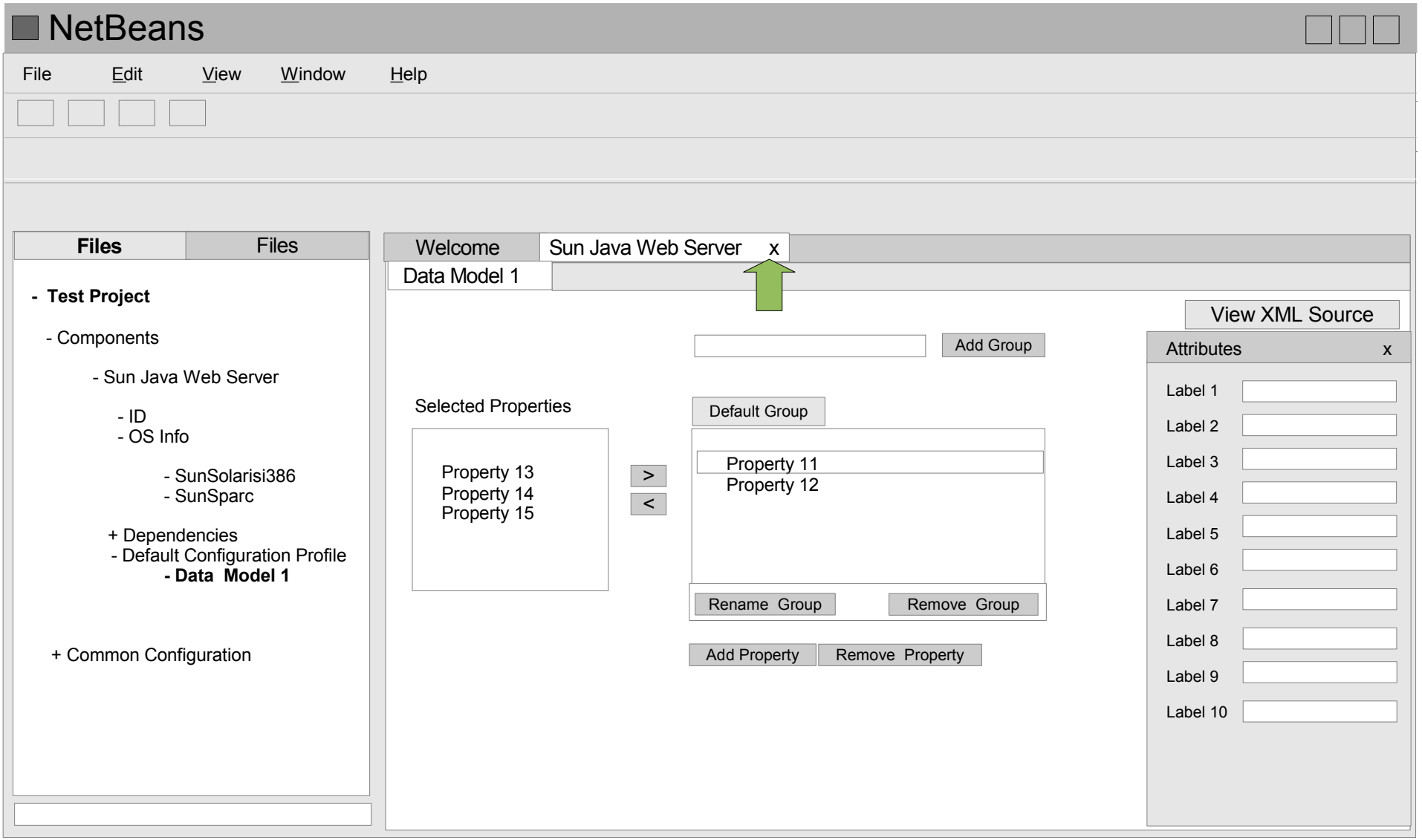
New Data Model – Add Data



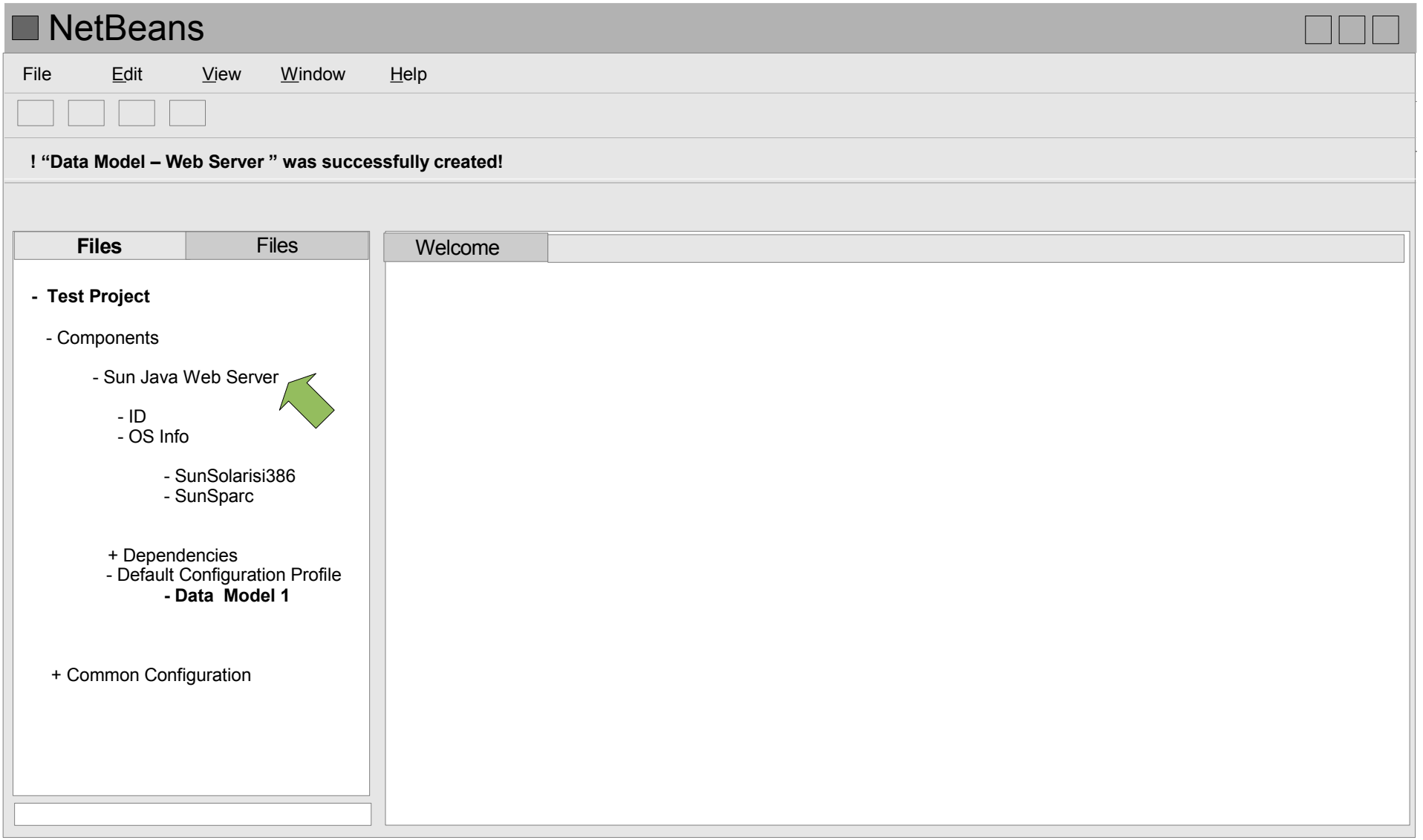
New Data Model – Add Data



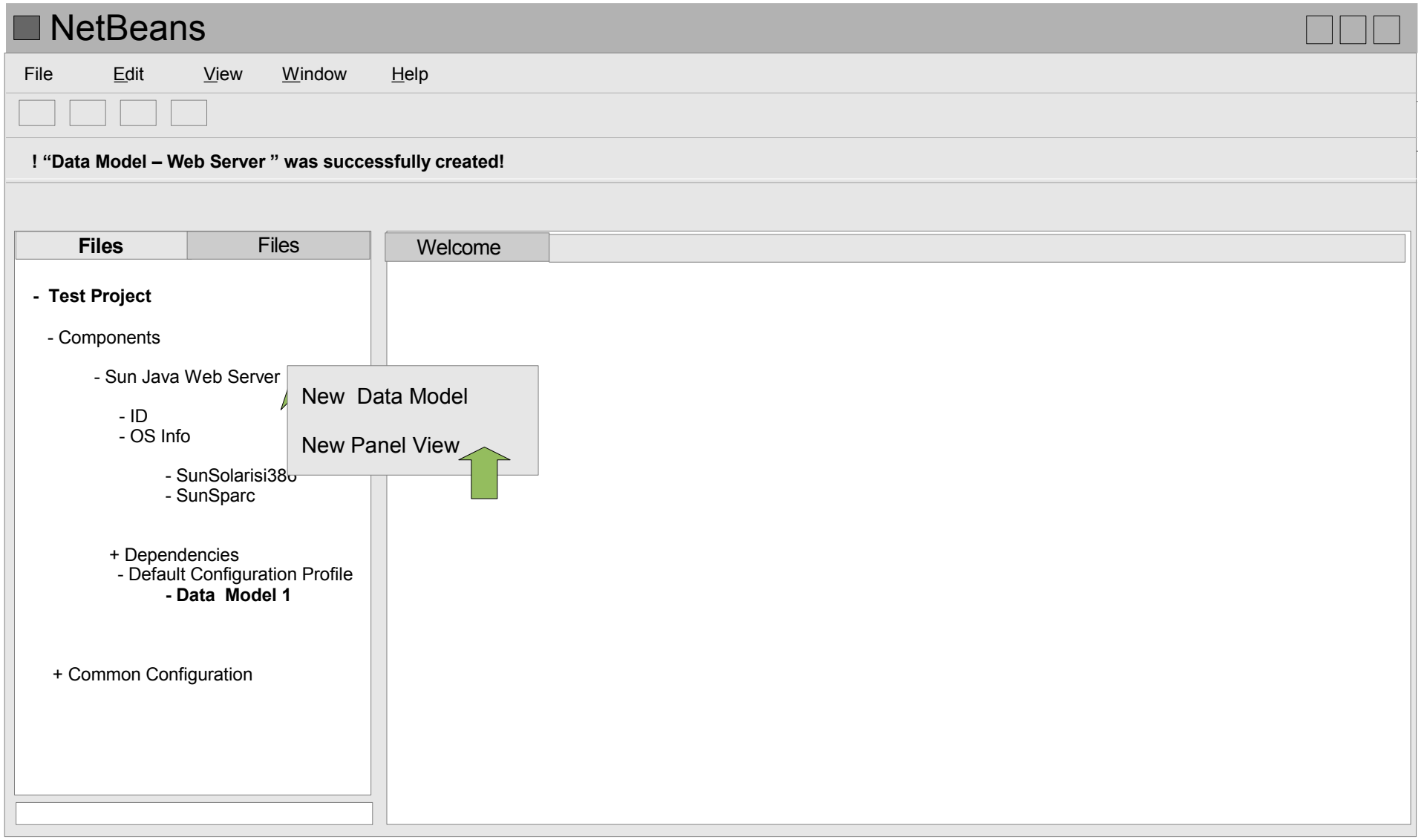
New Data Model – Add Data



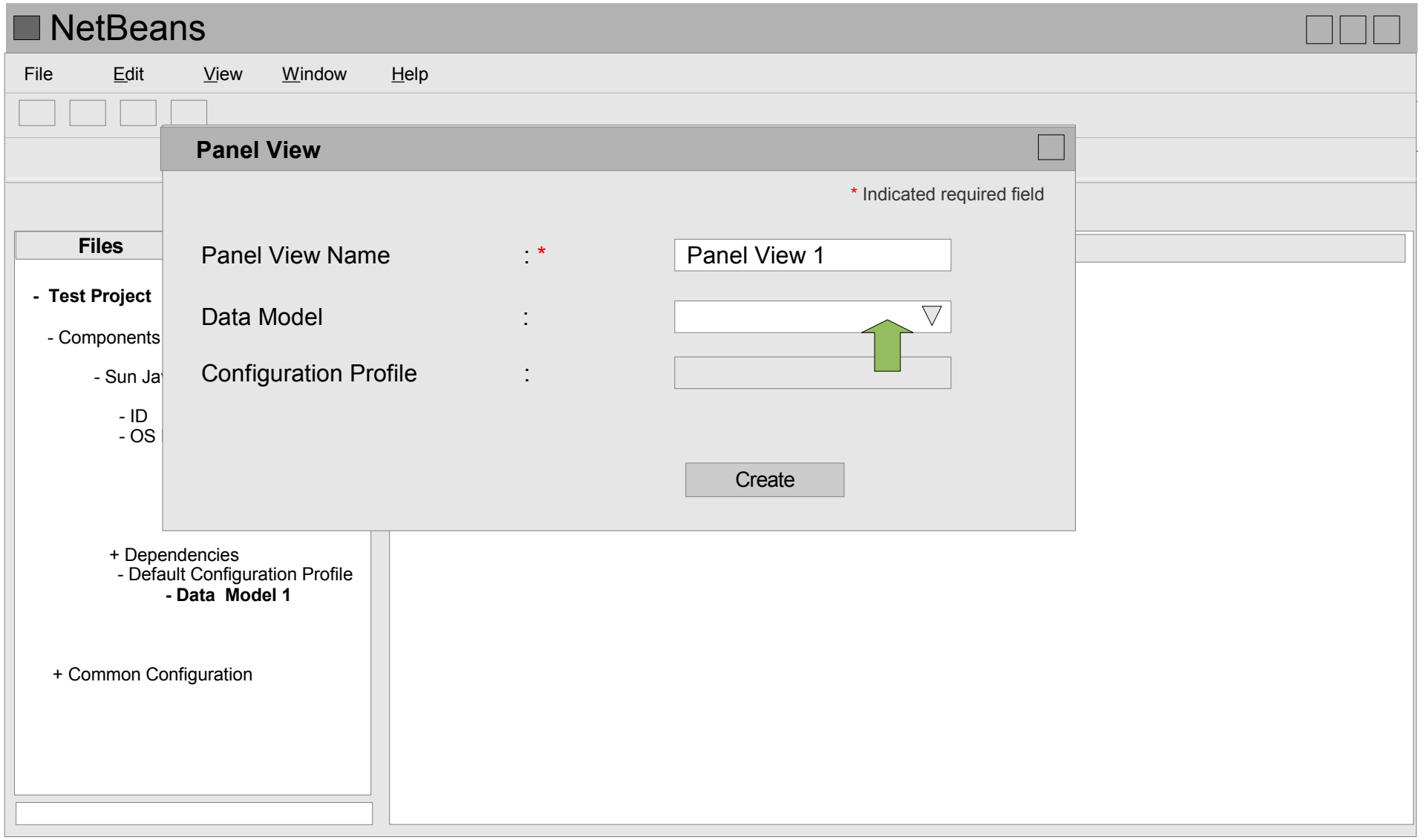
New Data Model



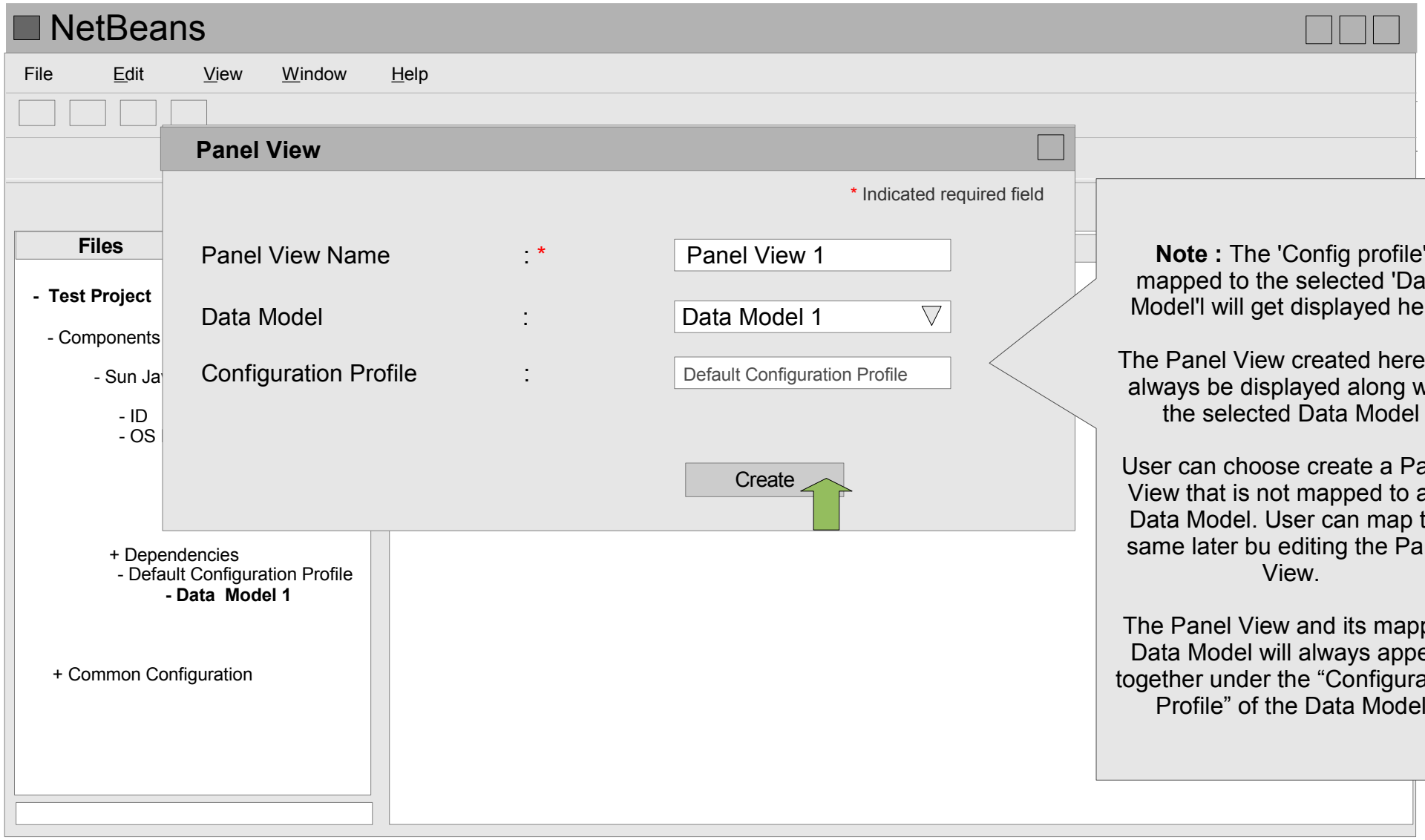
New Panel View



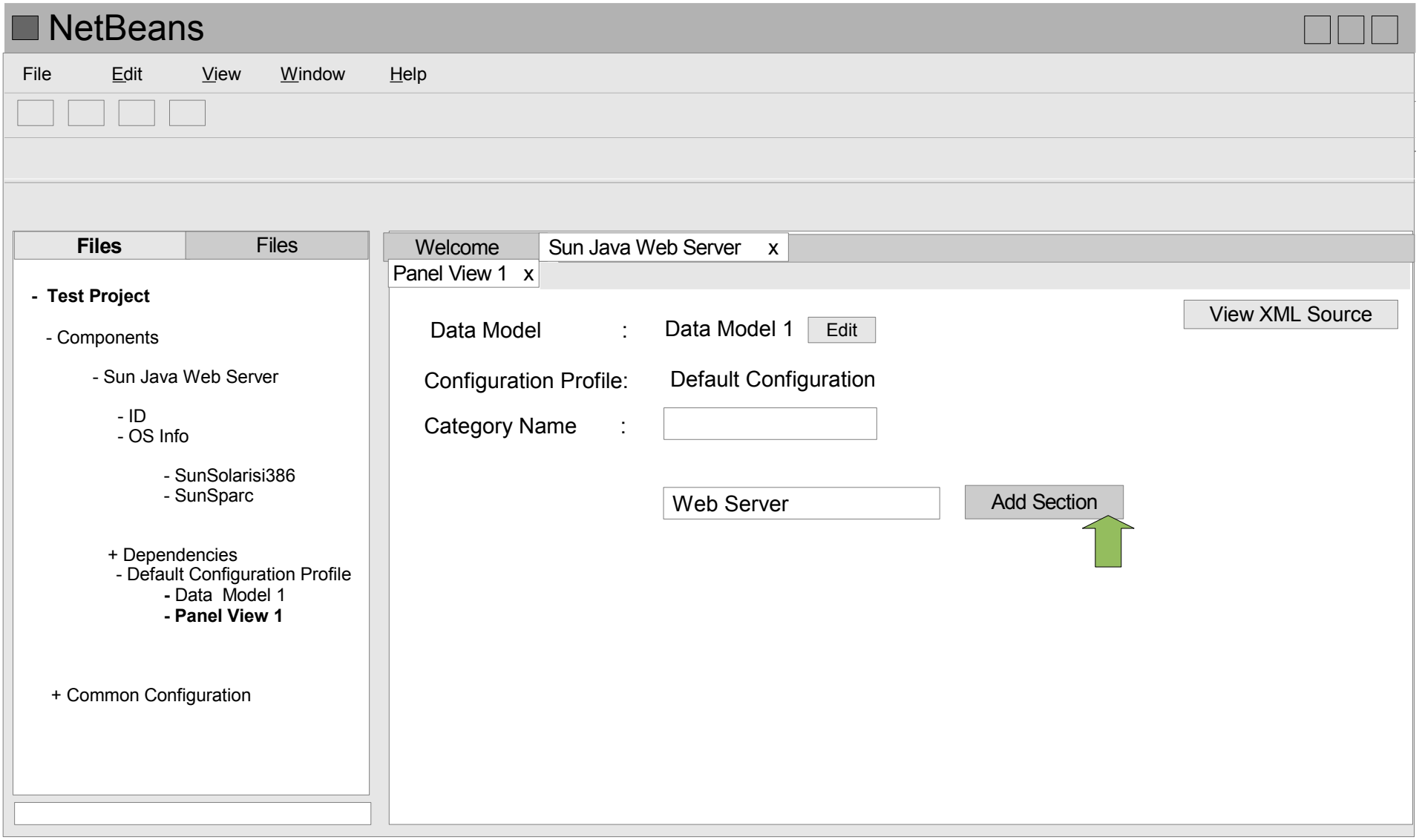
New Panel View



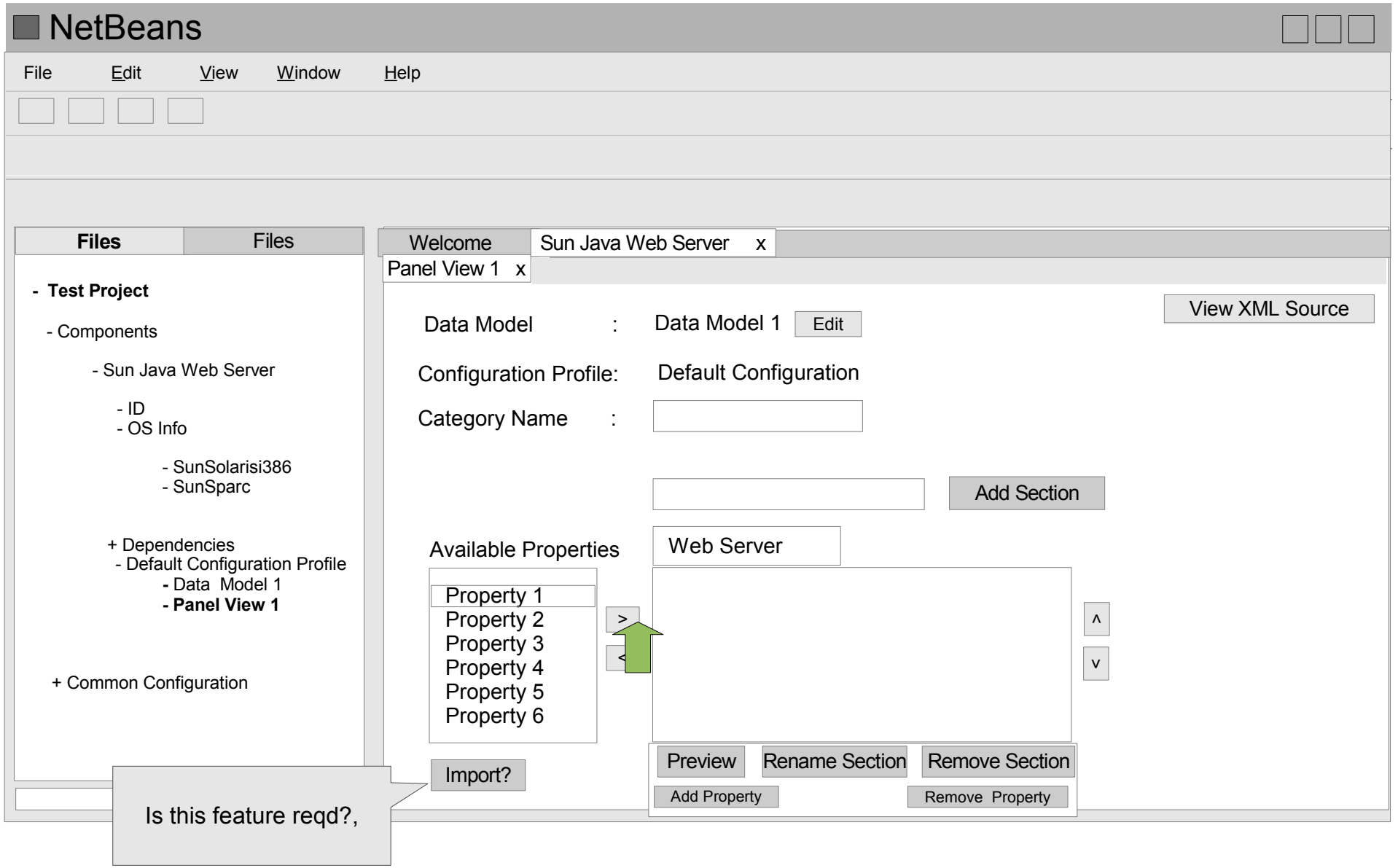
New Panel View



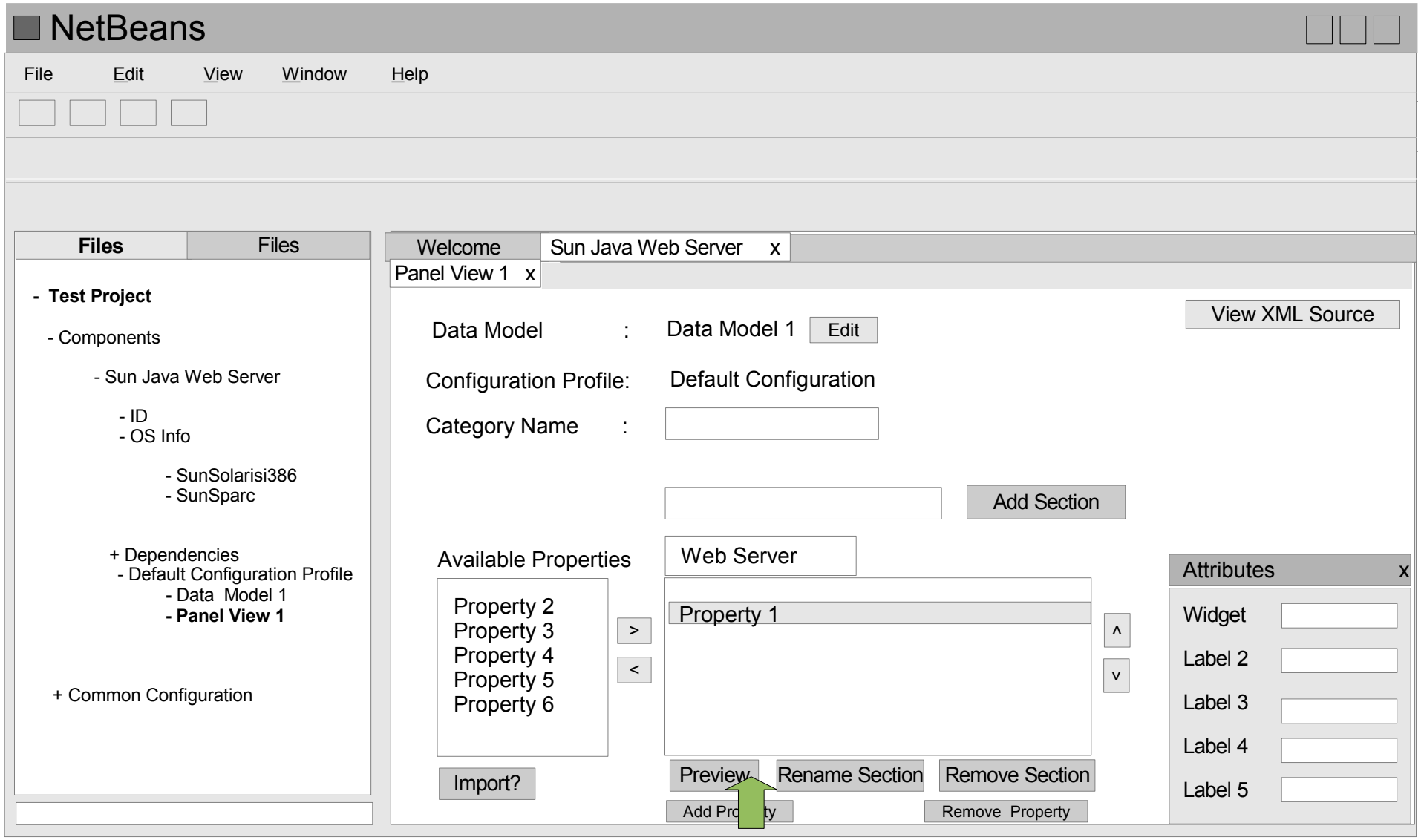
New Panel View – Add Sections



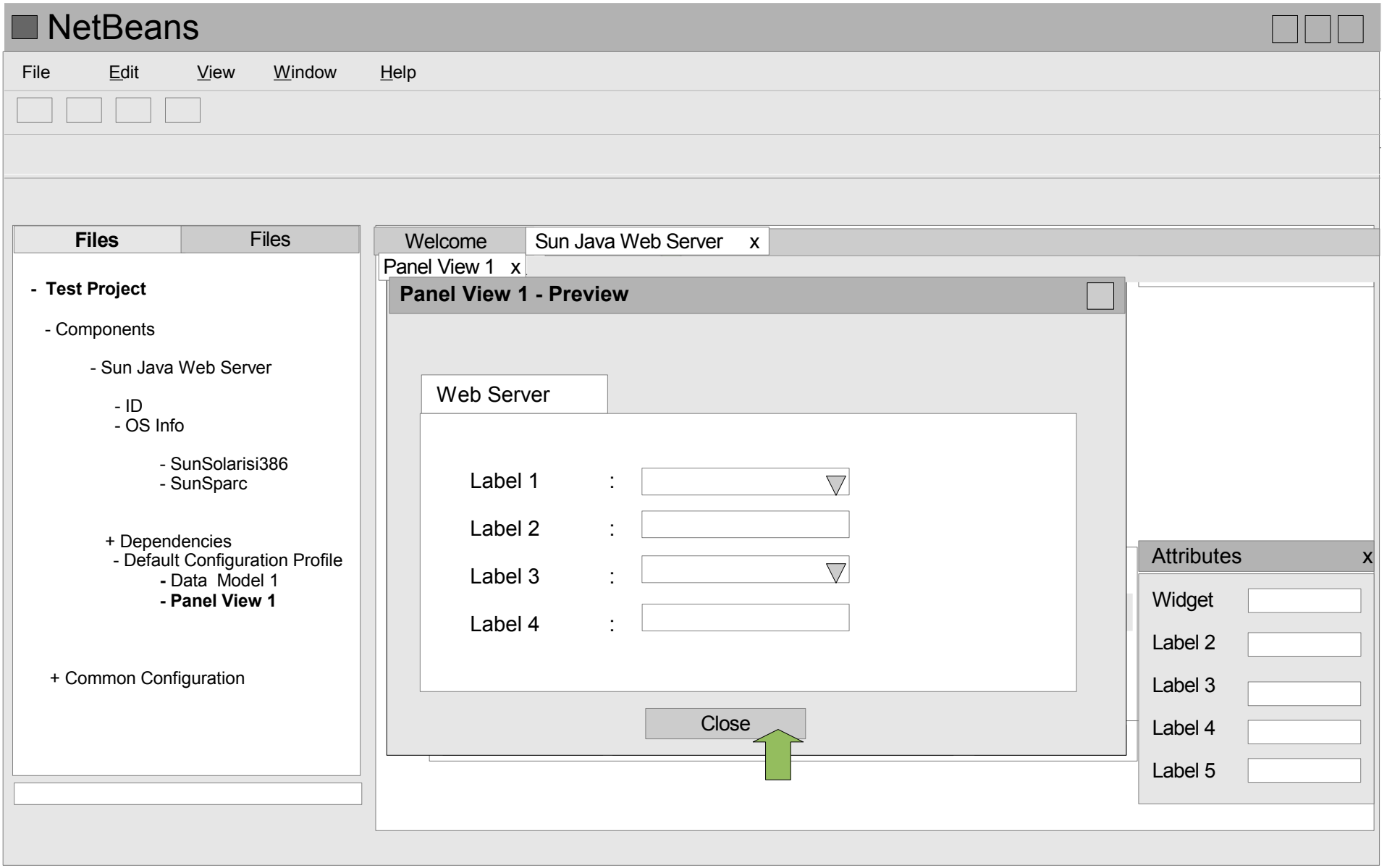
New Panel View – Add Sections



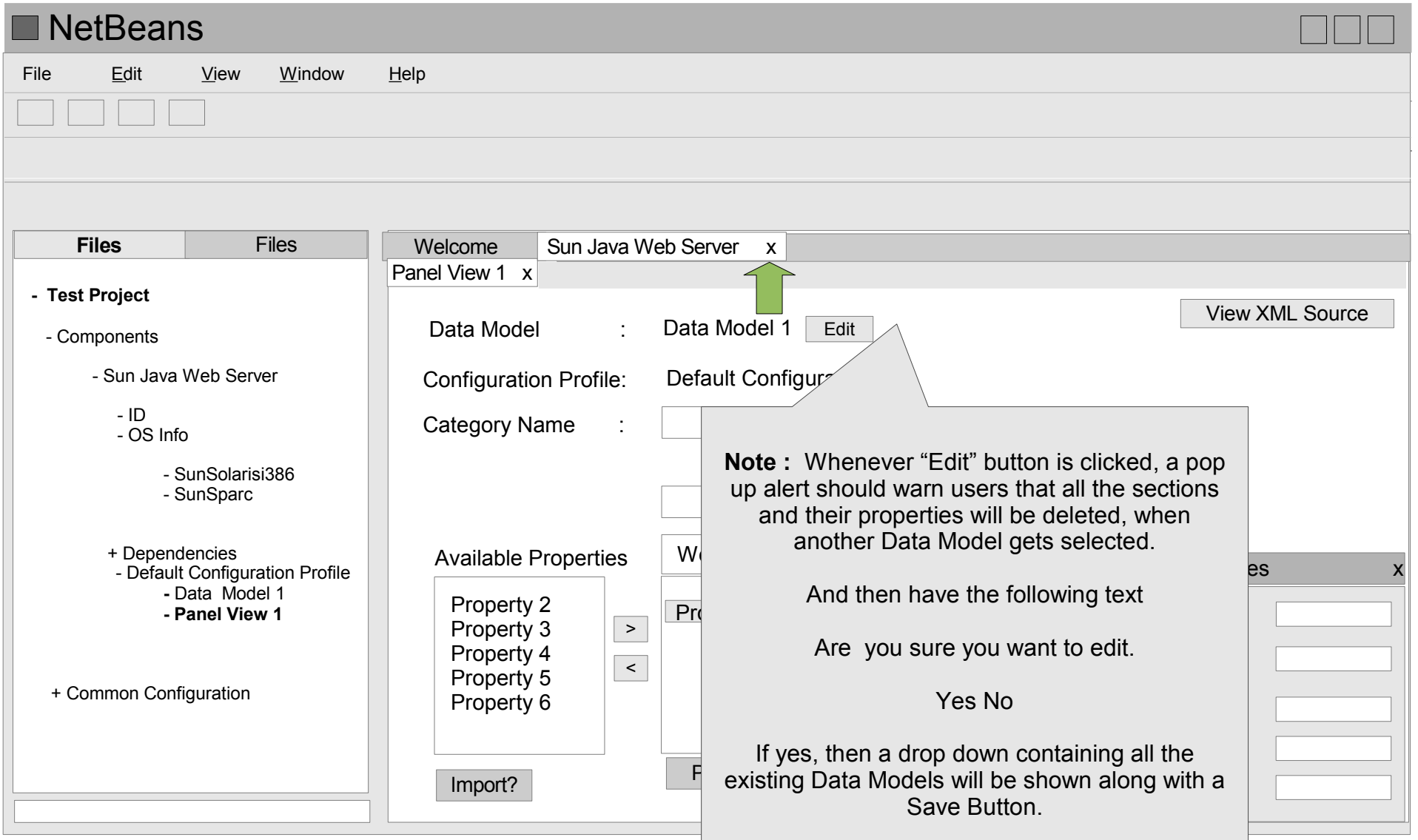
New Panel View – Preview



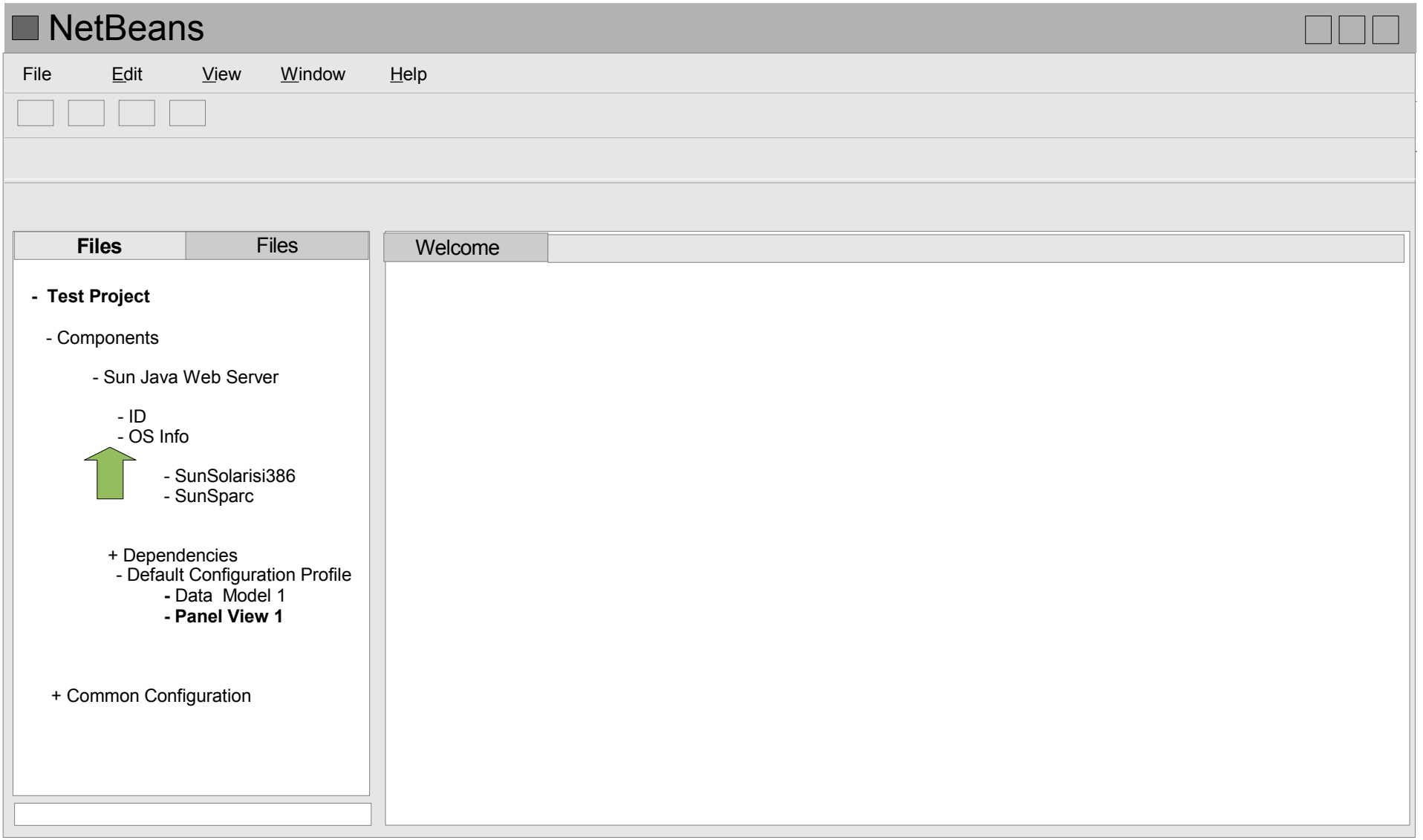
New Panel View – Add Sections



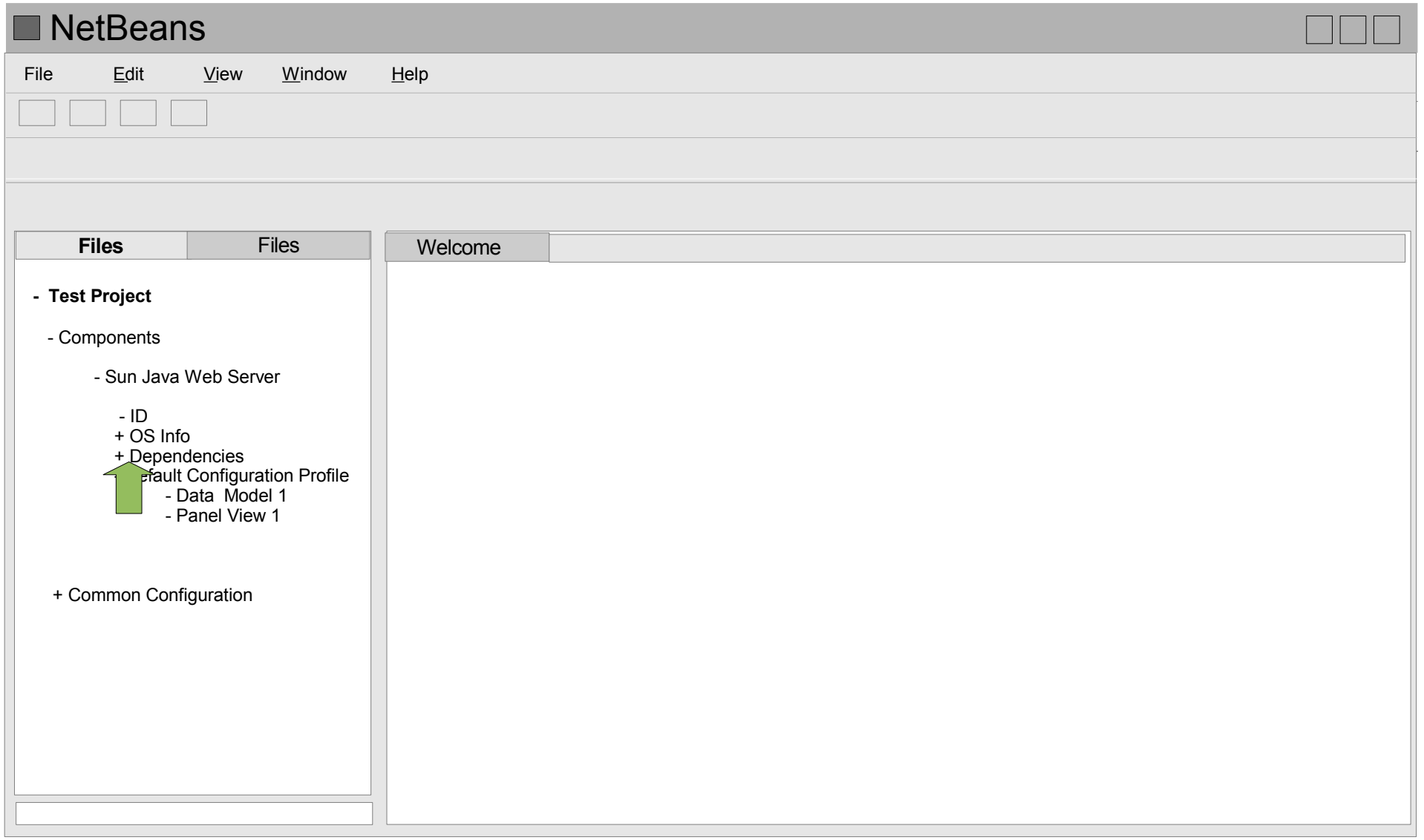
New Panel View – Add Sections



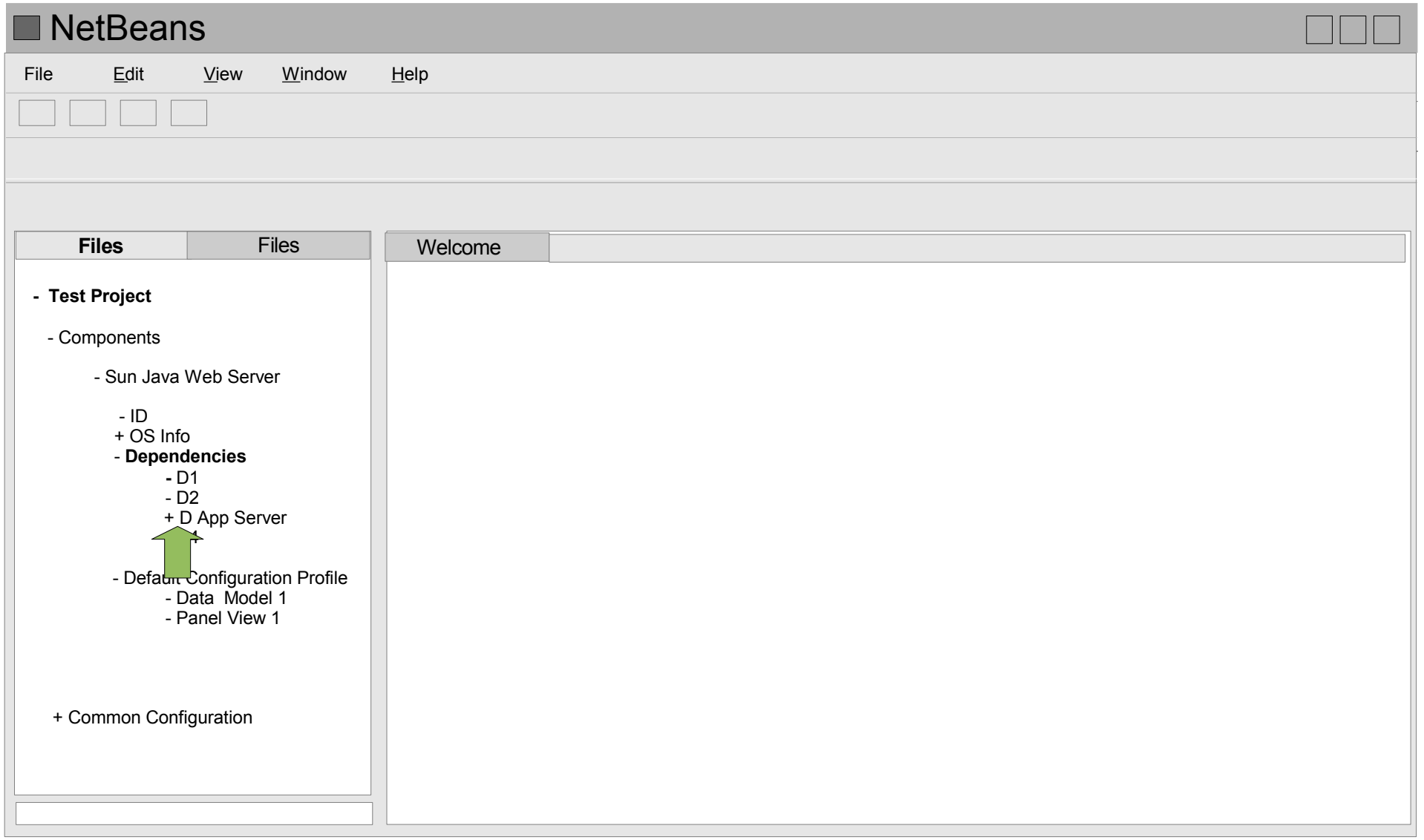
Minimize OS Info



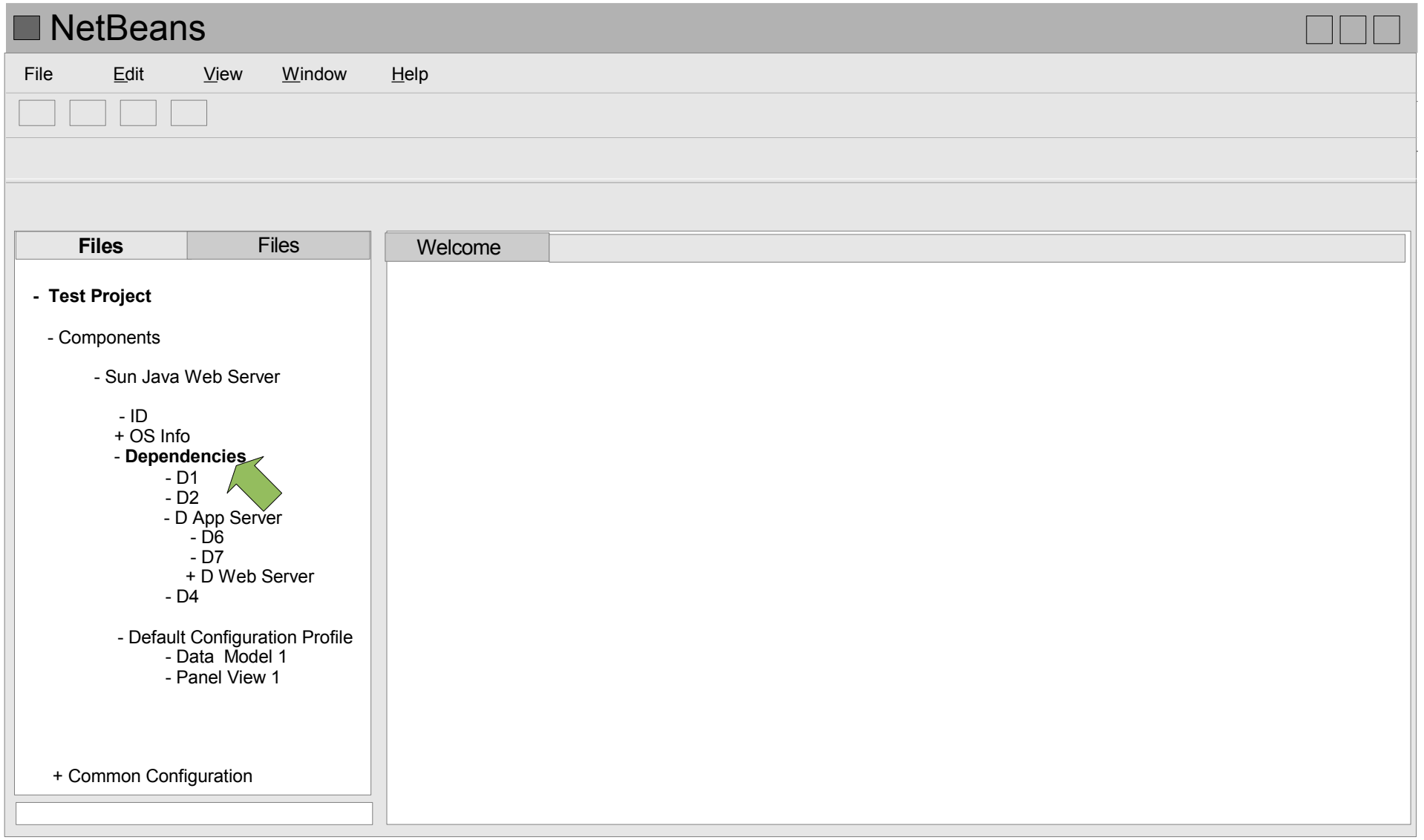
Dependencies



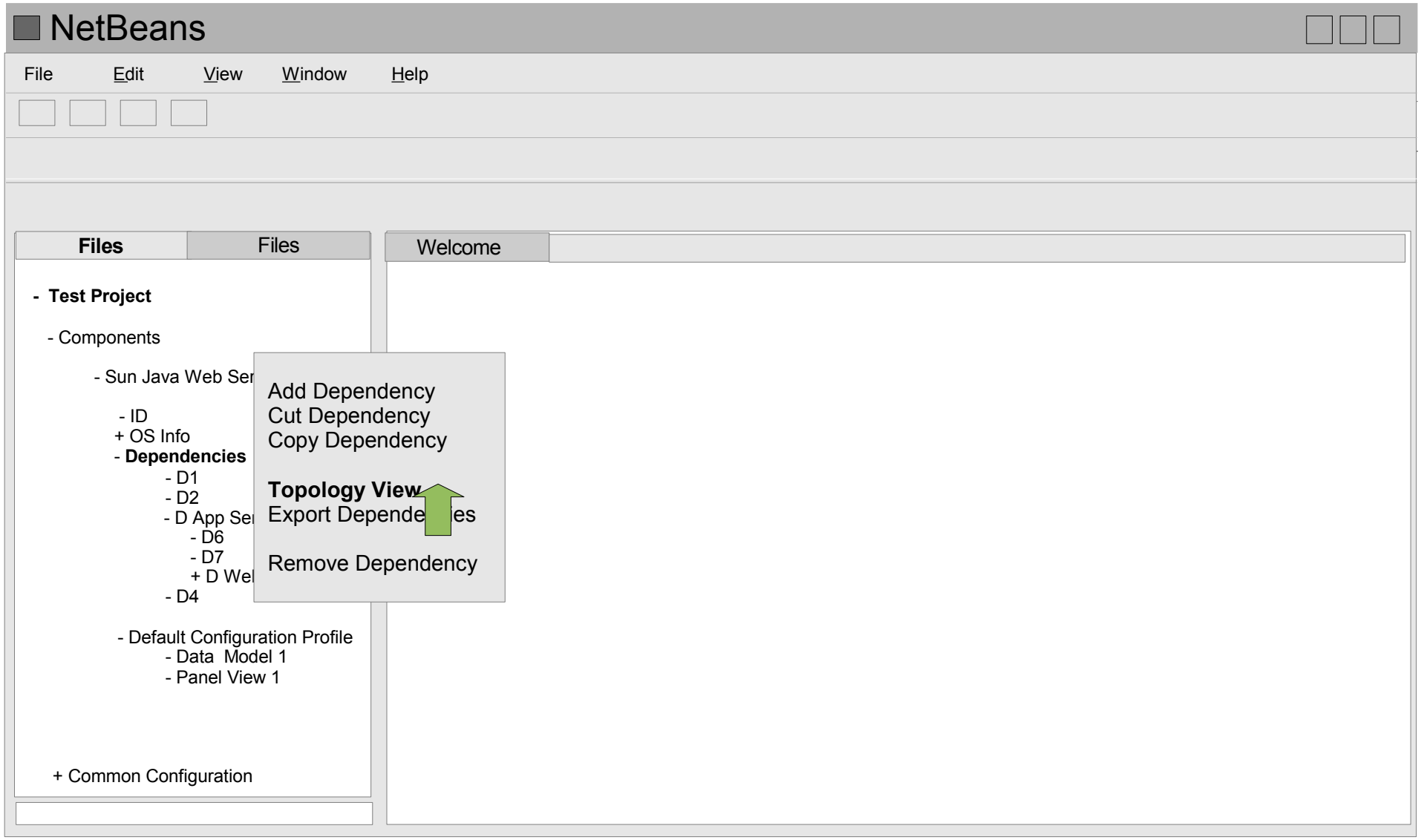
Dependencies



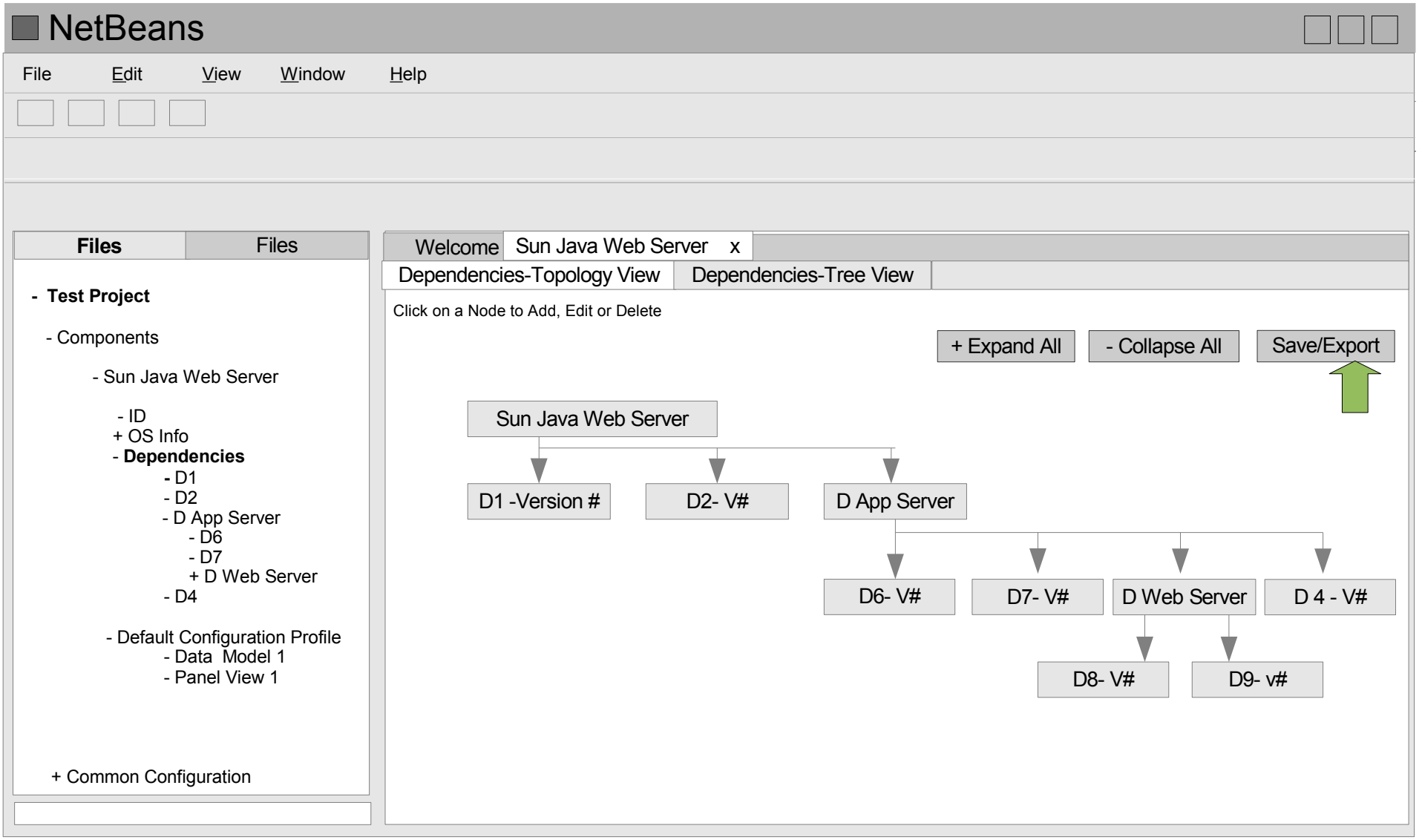
Dependencies



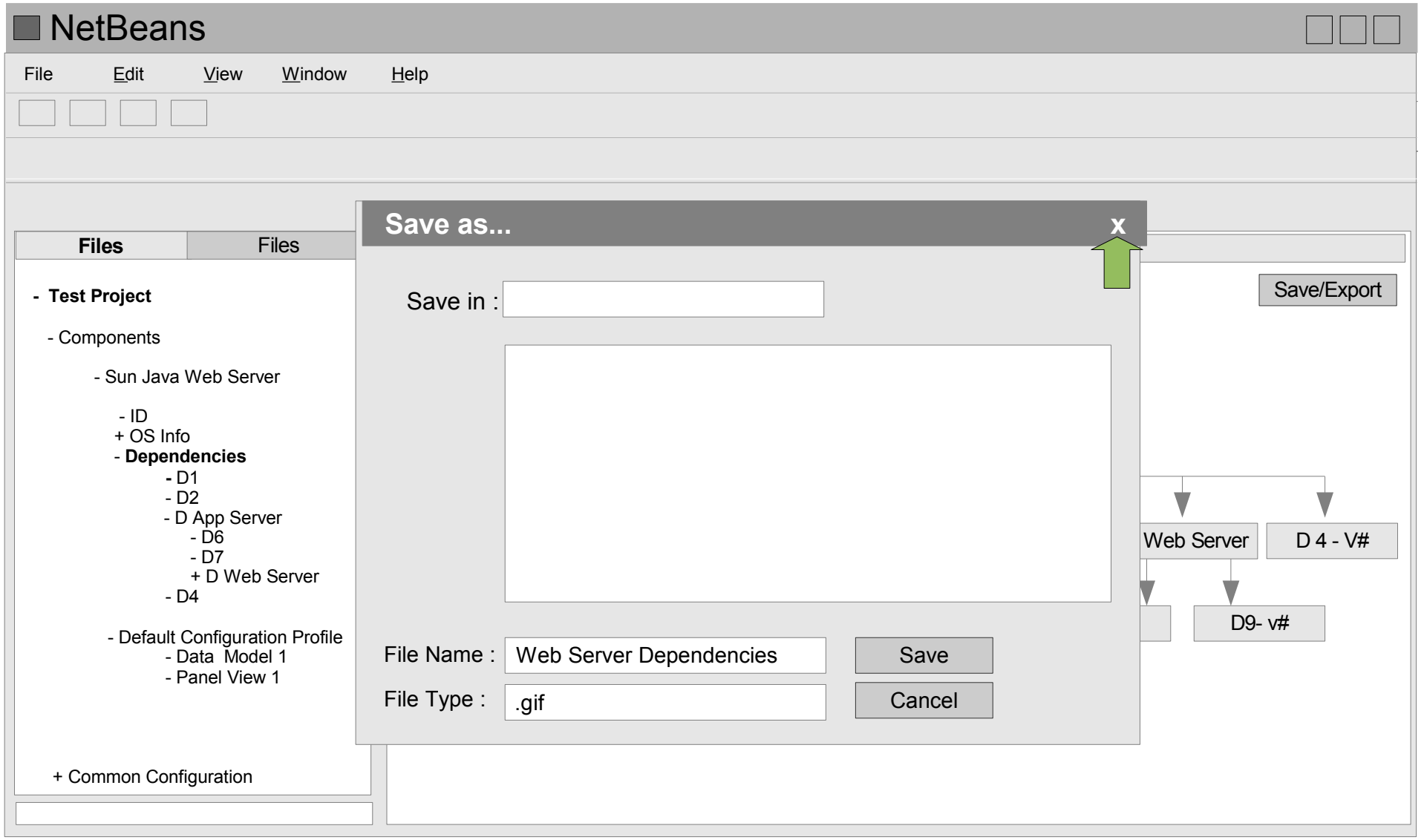
Dependencies



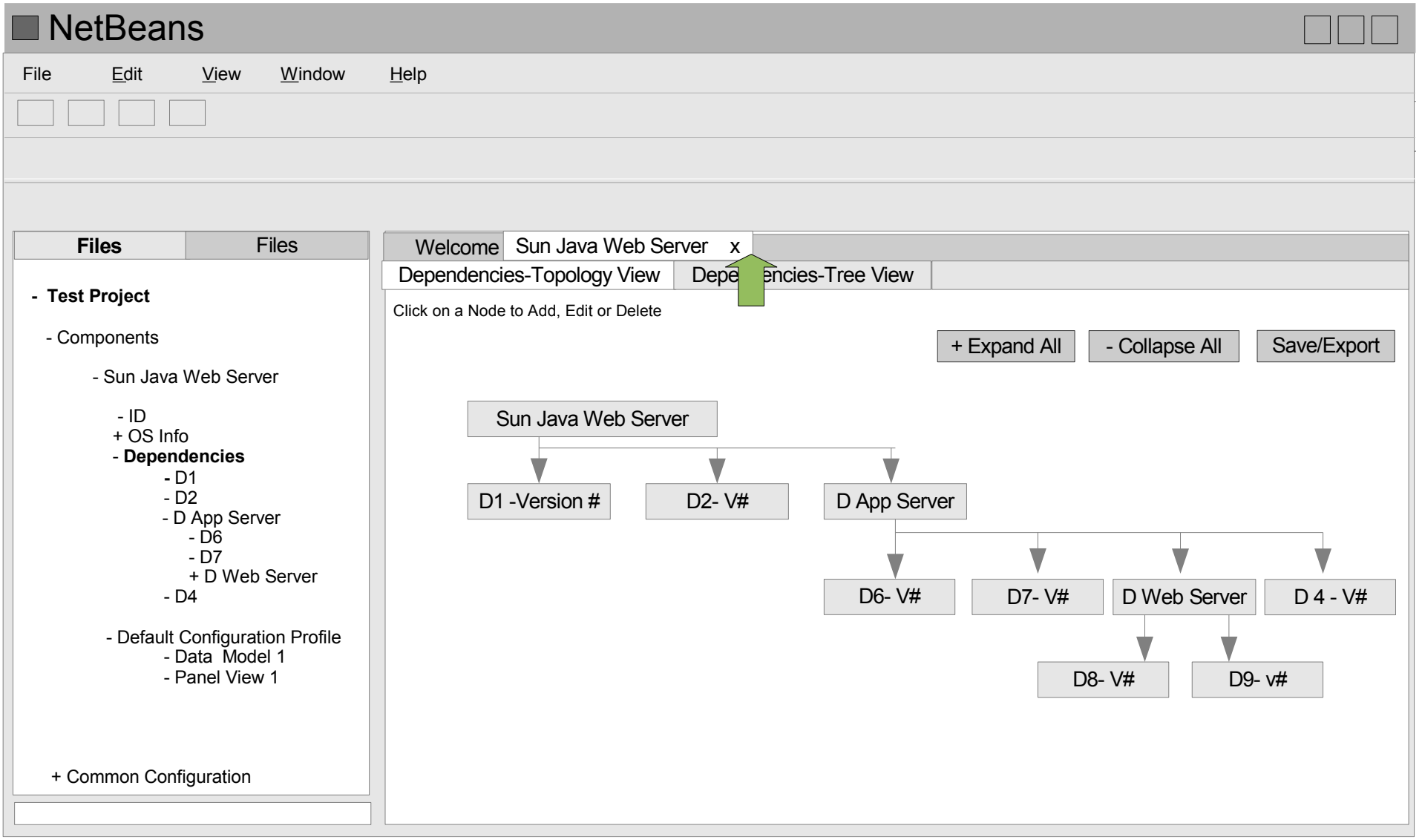
Dependencies – Topology View



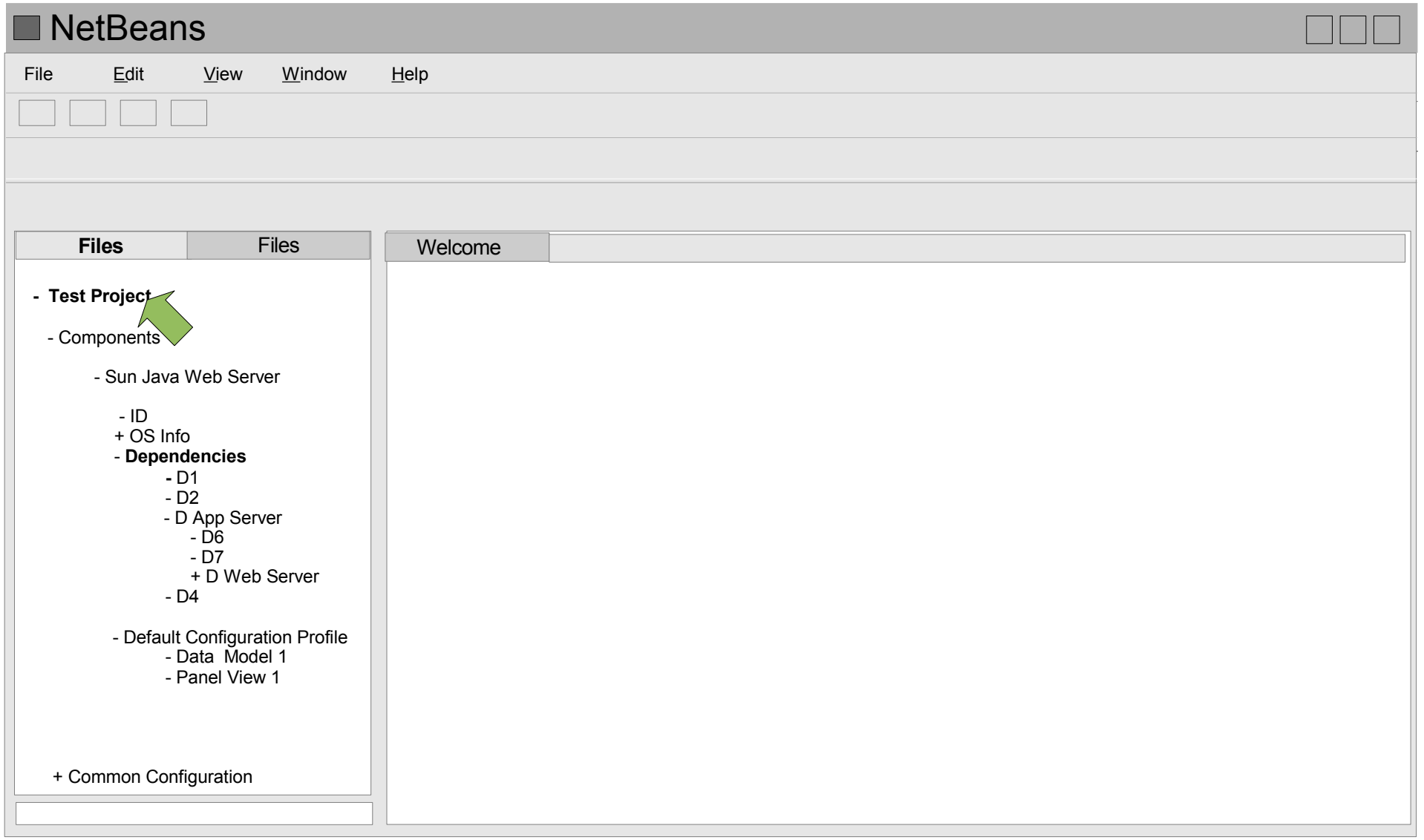
Save Dependencies



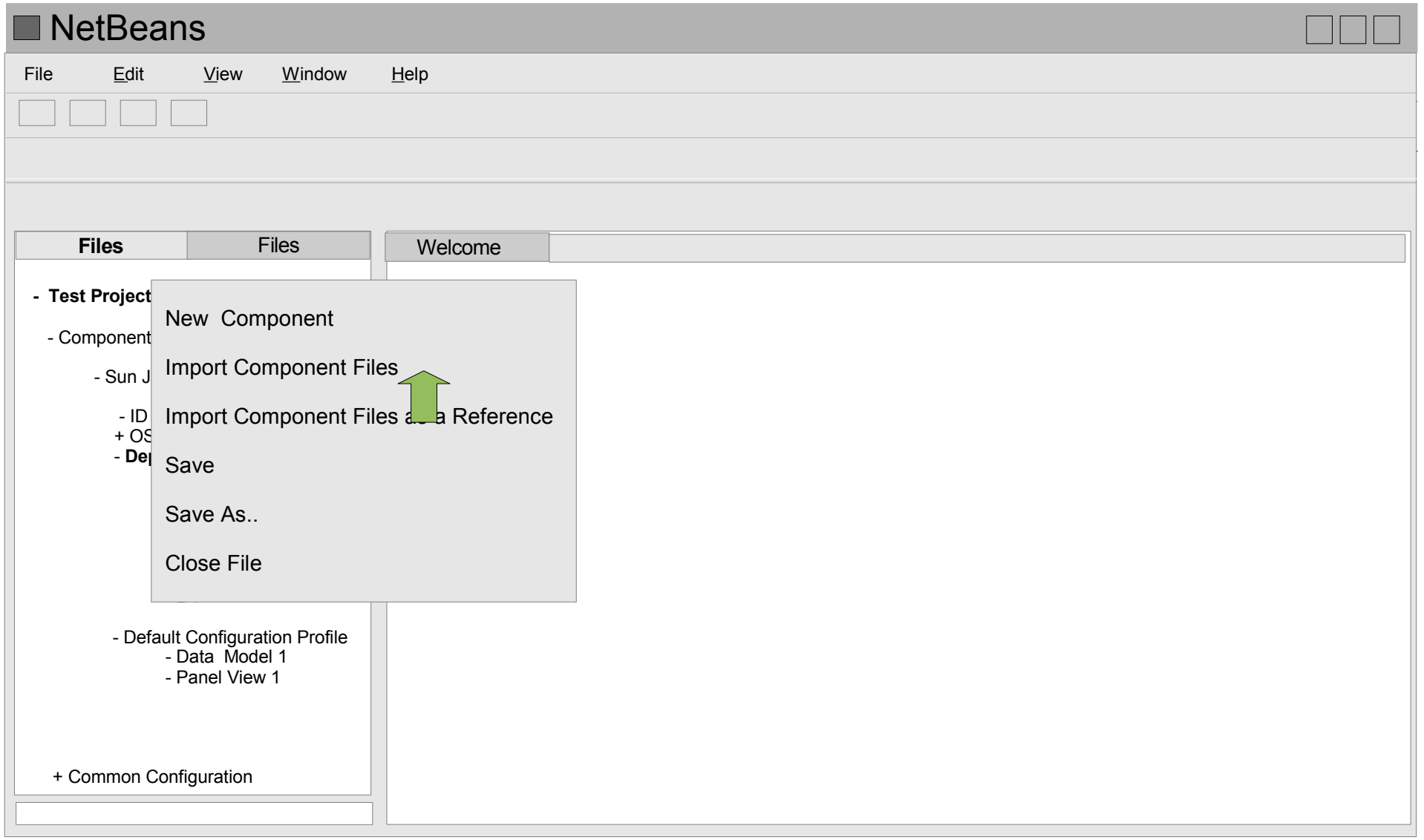
Dependencies – Topology View



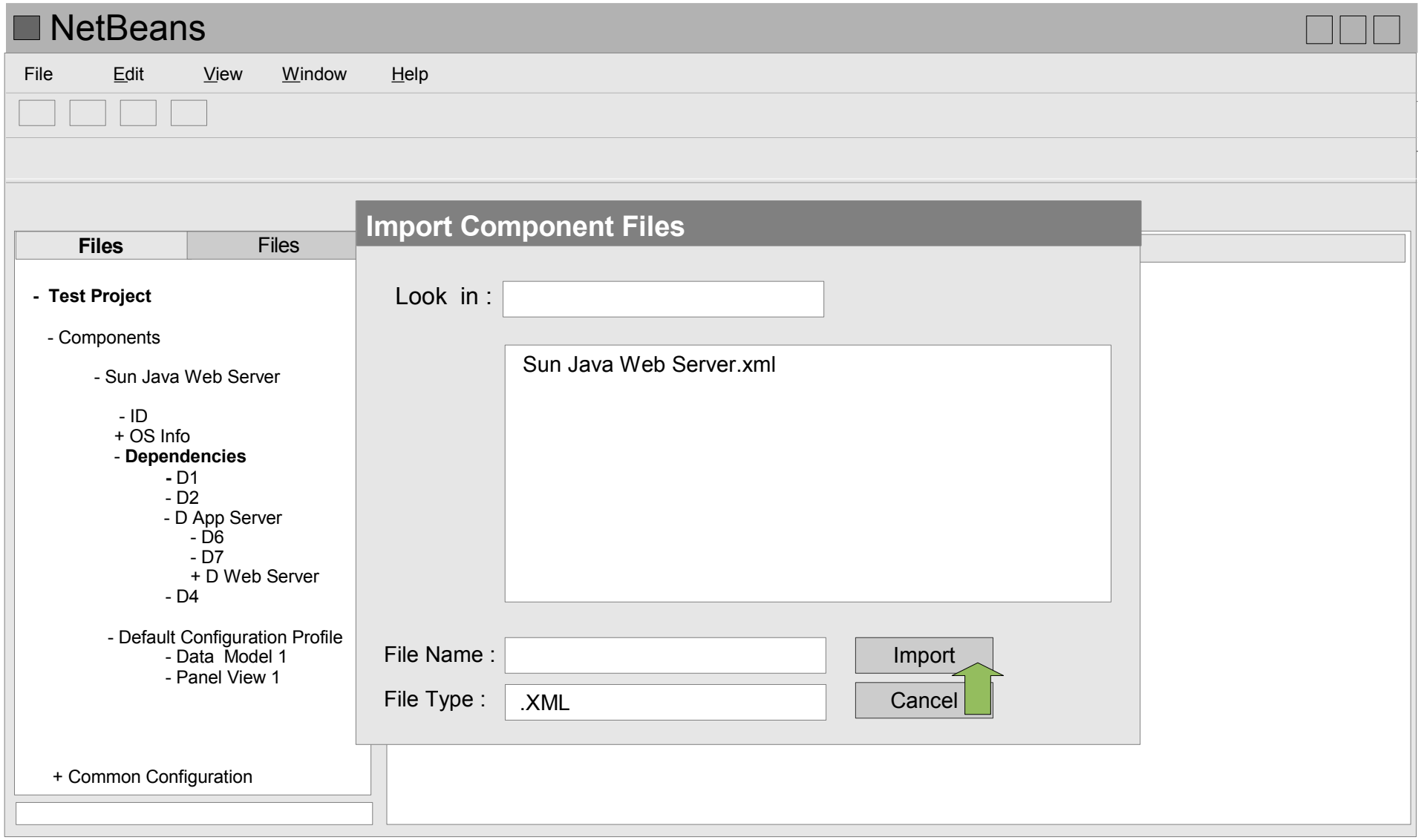
Import Component Files to a File



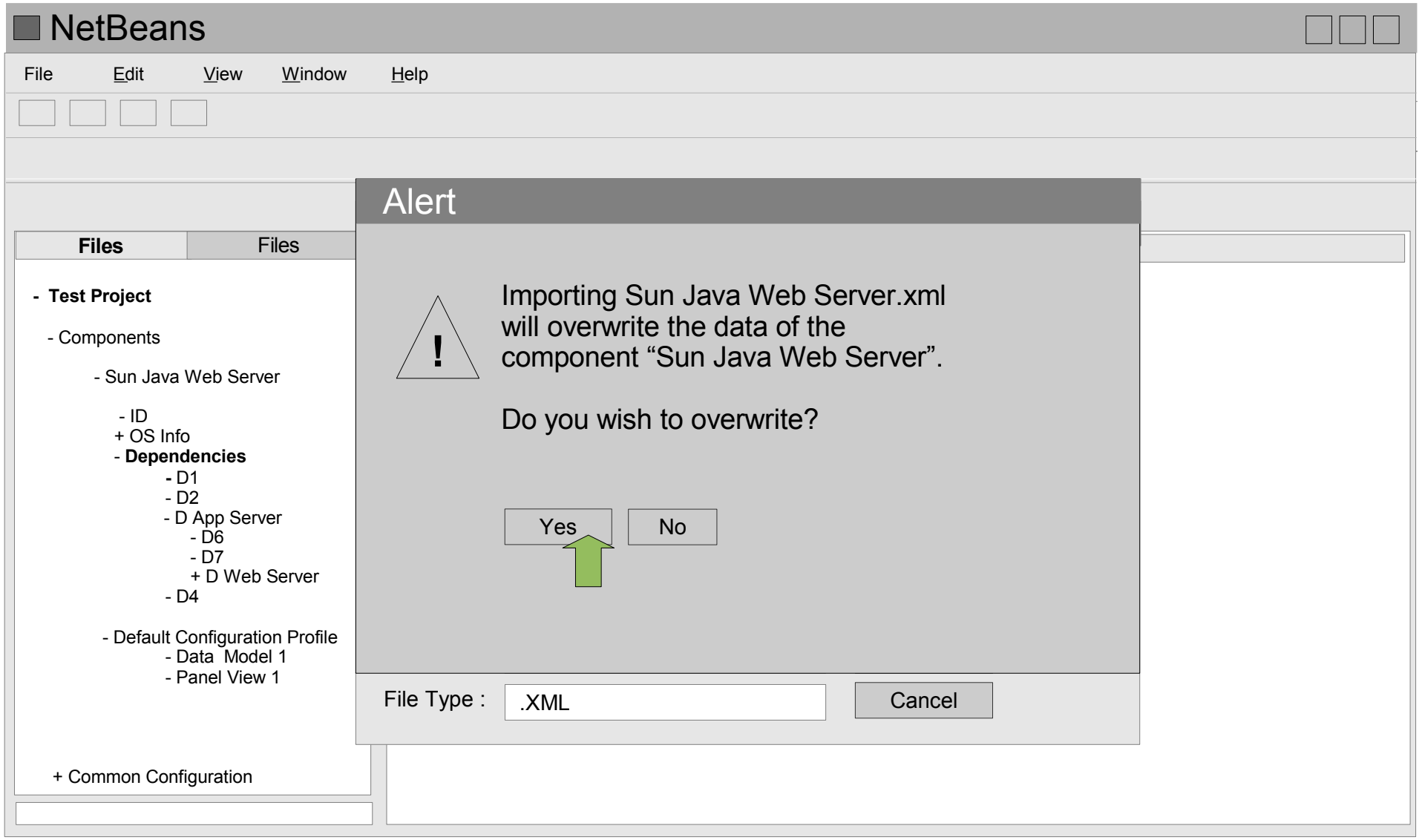
Import Component Files to a File



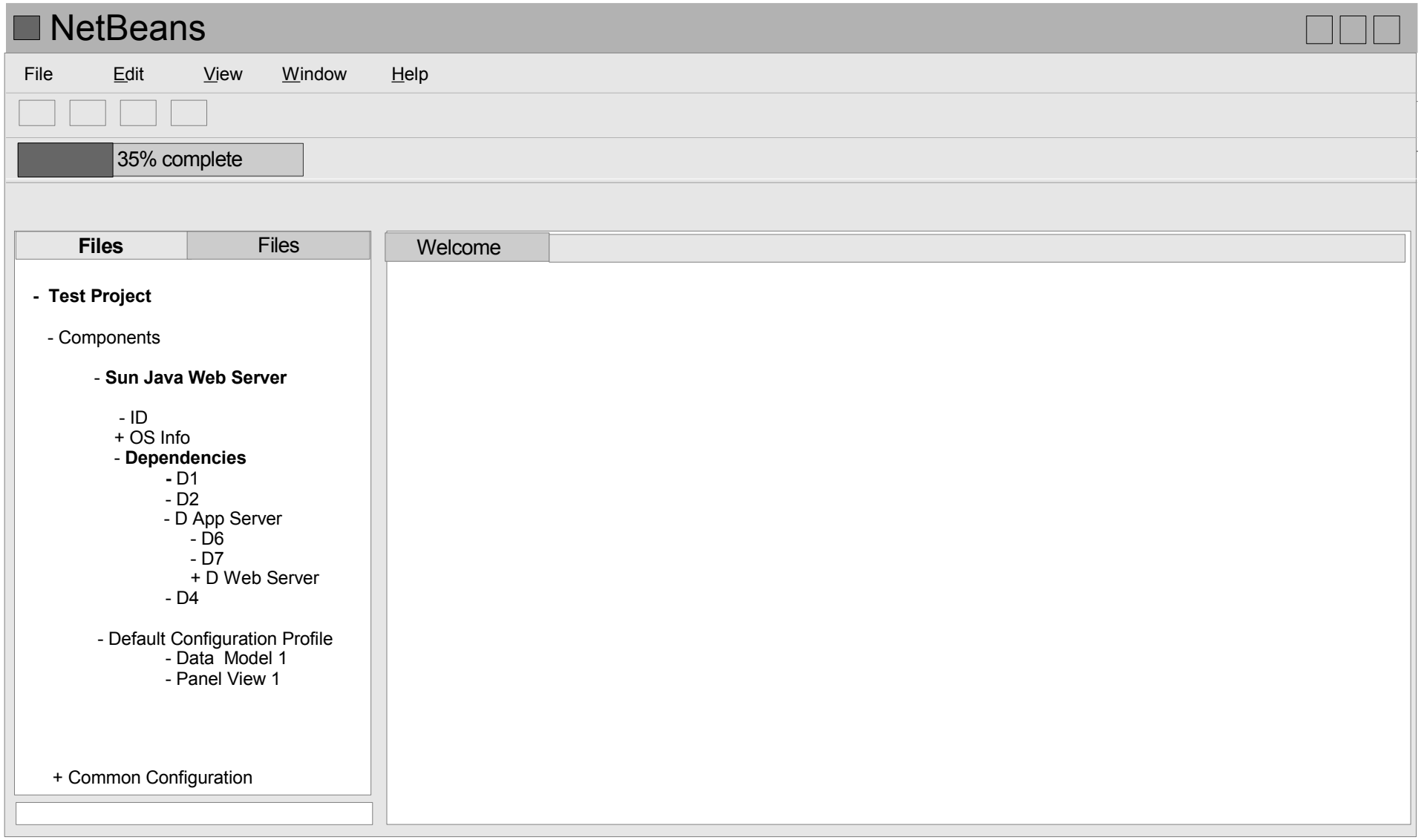
Import Component Files to a File



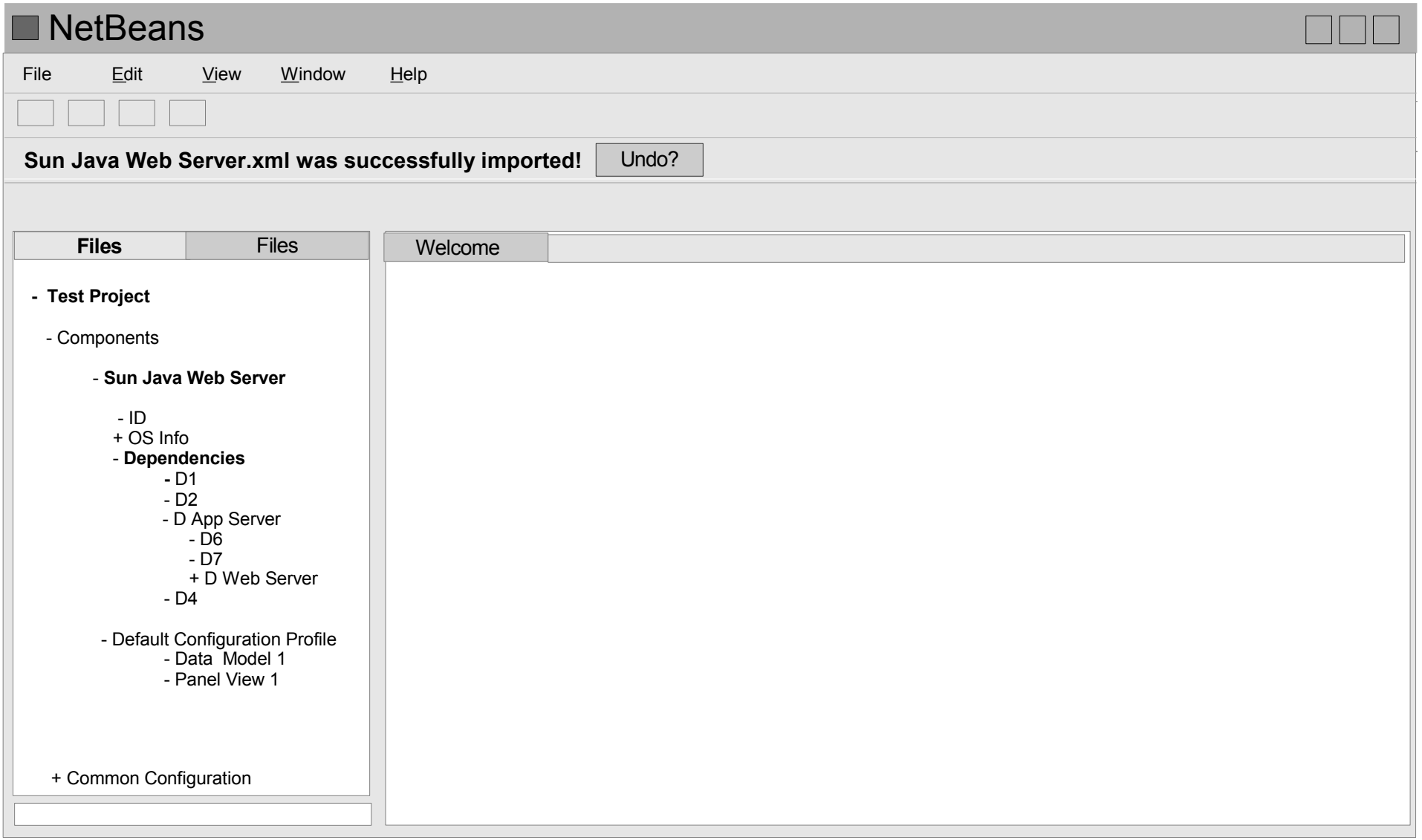
Import Component Files to a File



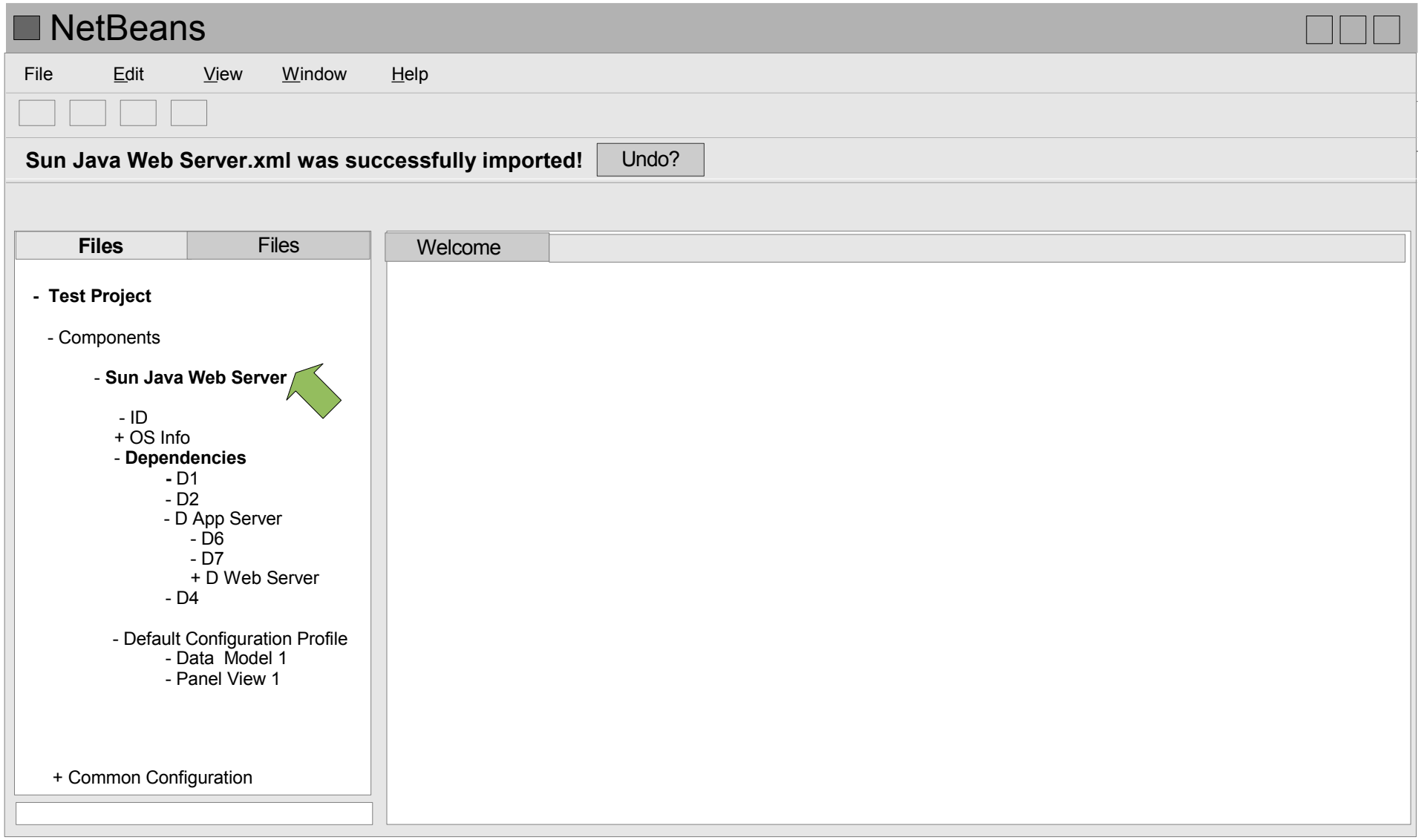
System Response



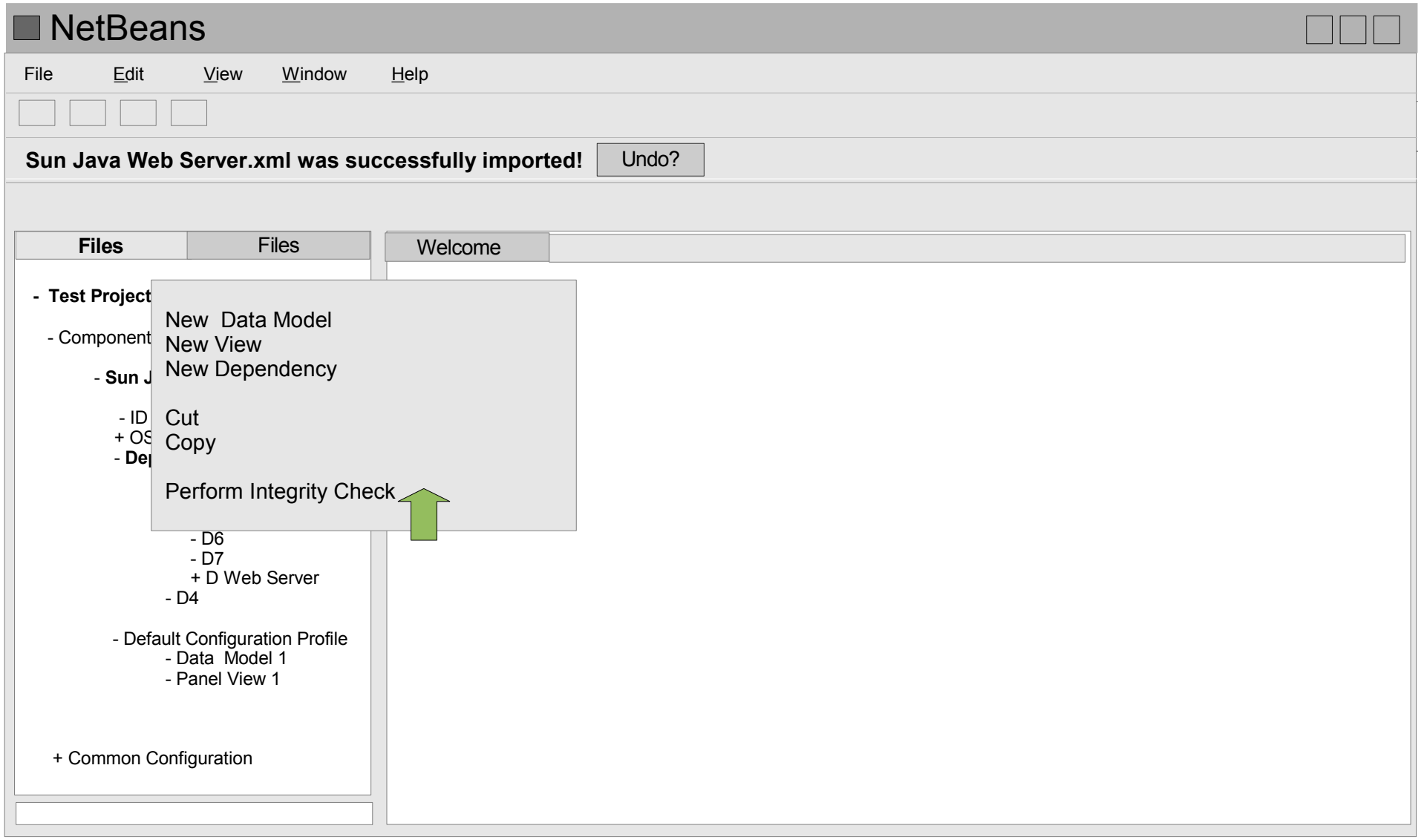
System Response



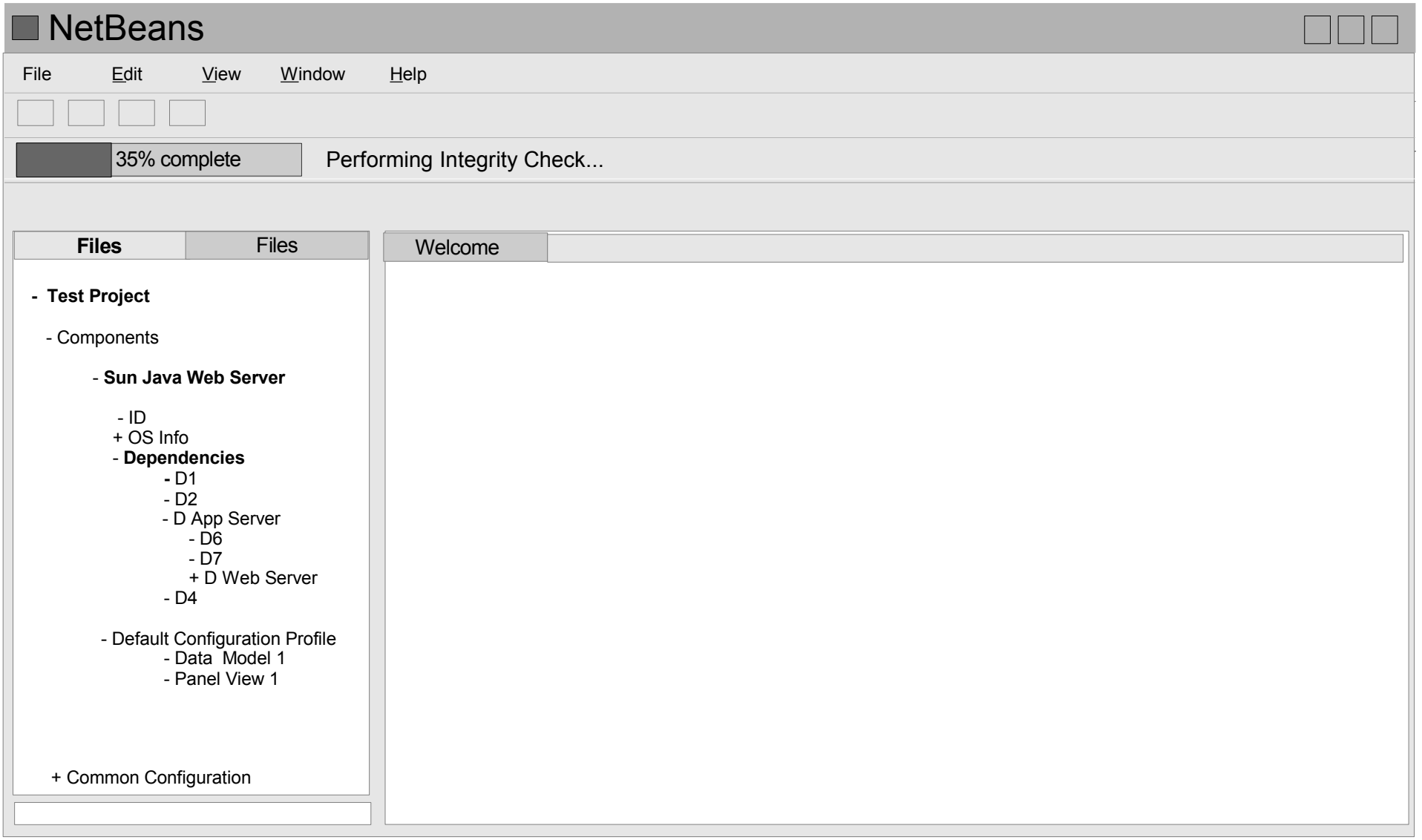
Perform Integrity Check on a Component



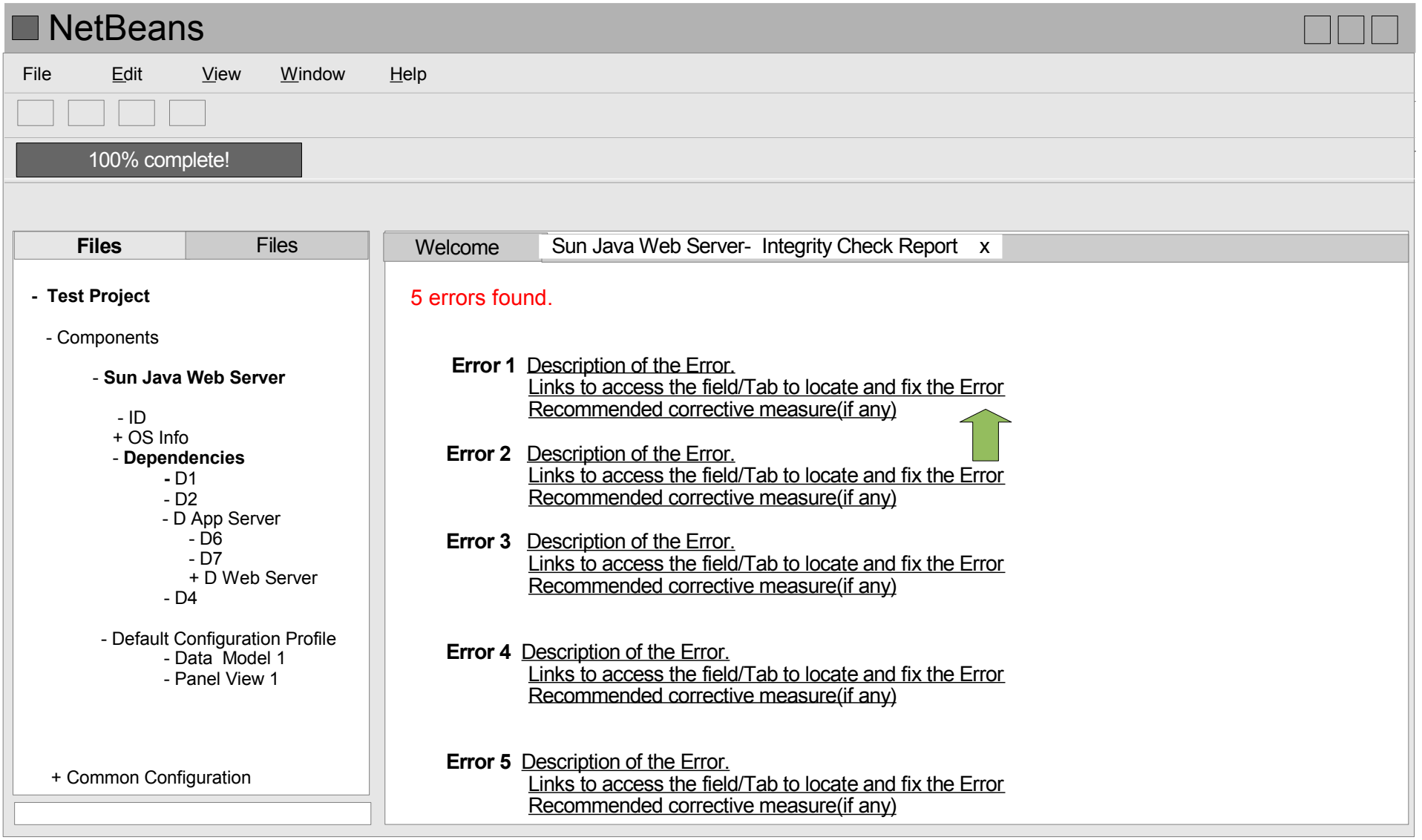
Perform Integrity Check on a Component



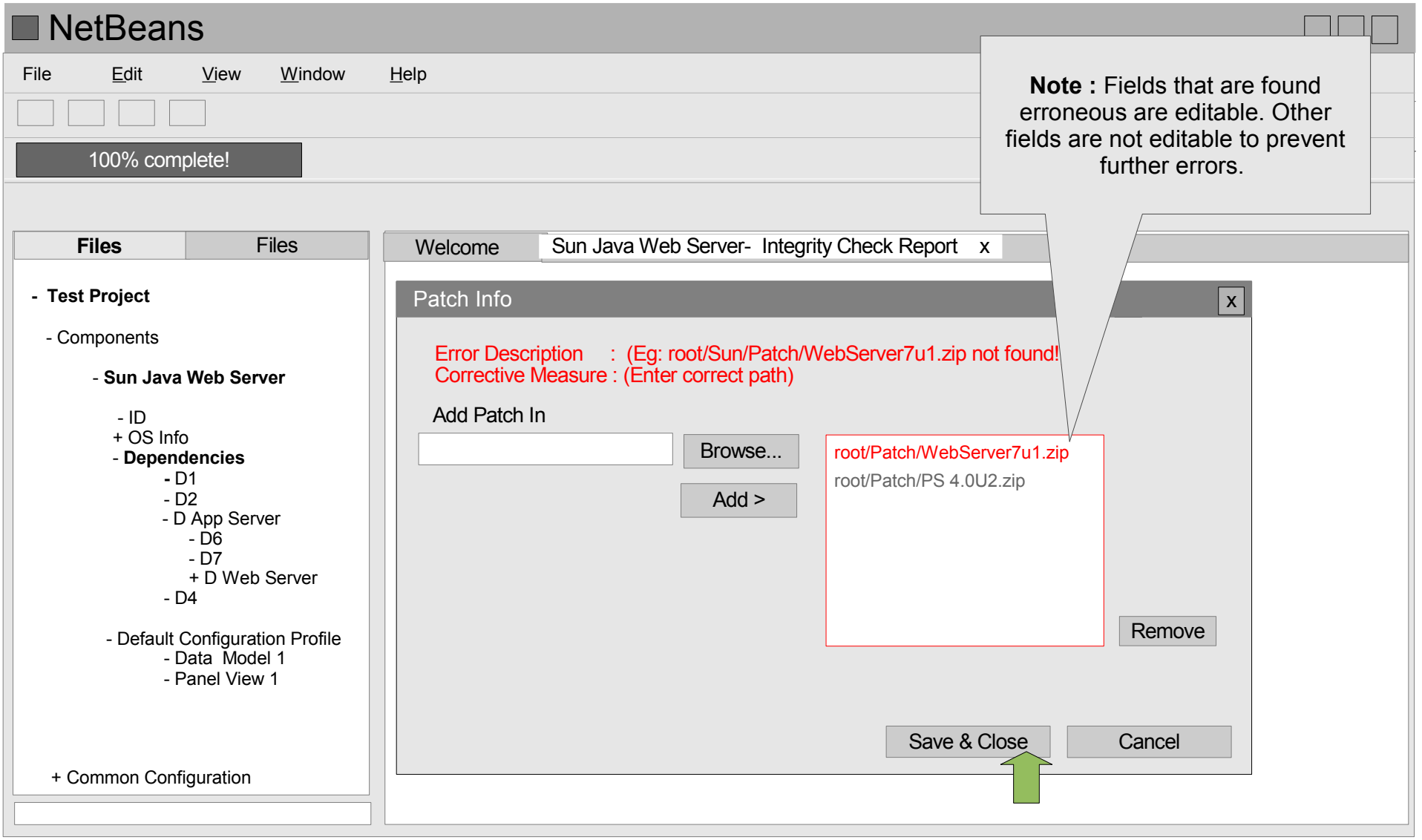
System Response



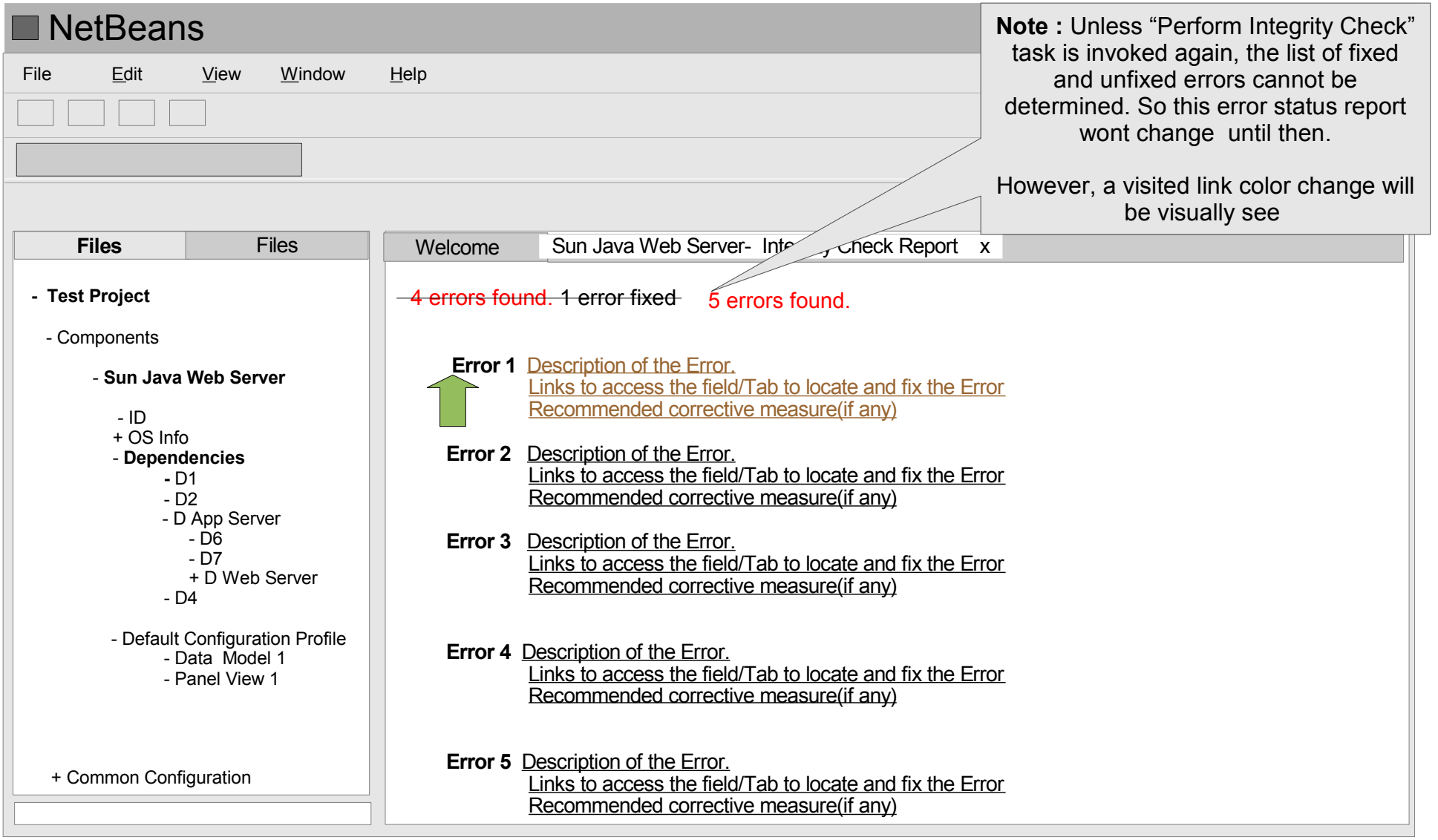
System Response



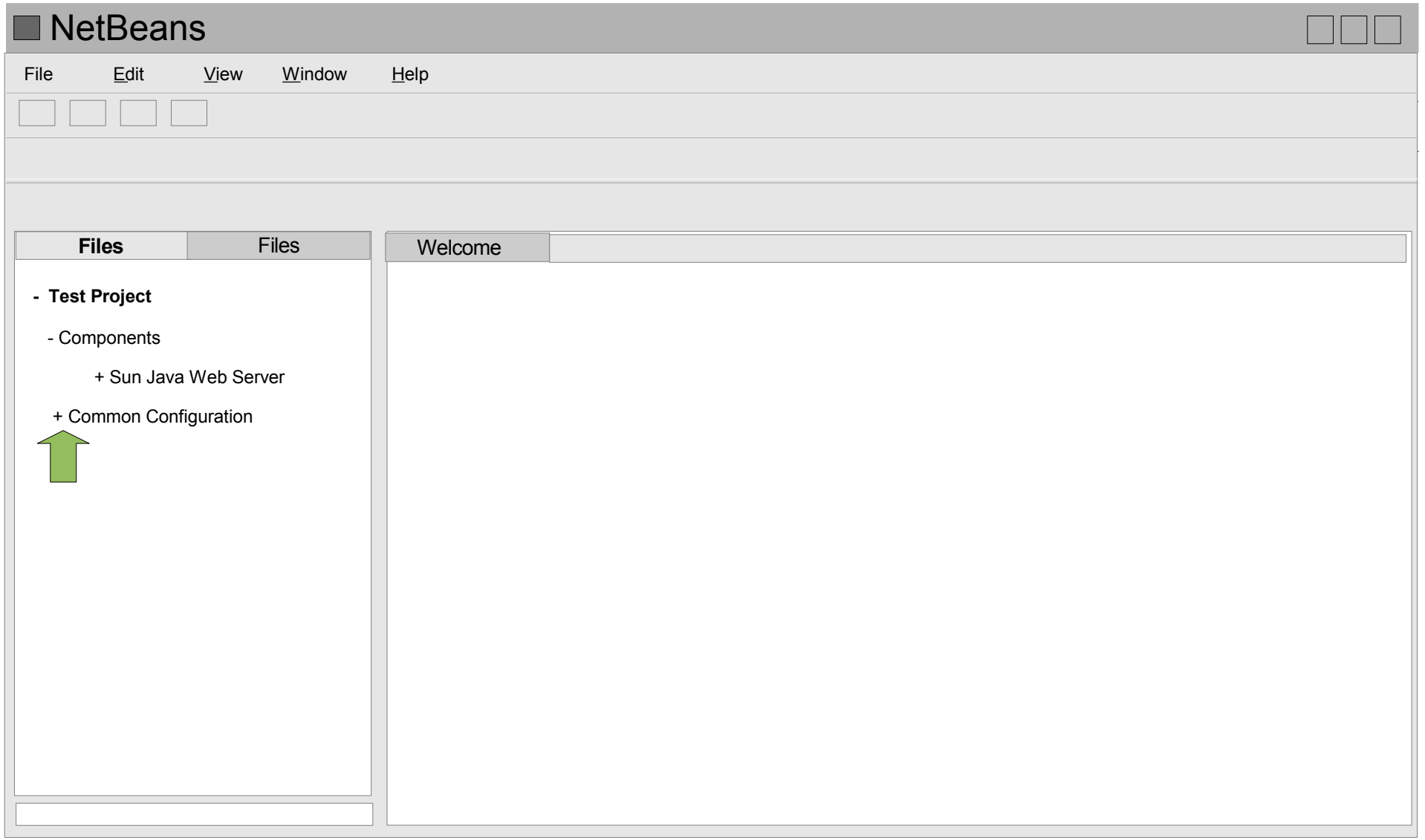
System Response



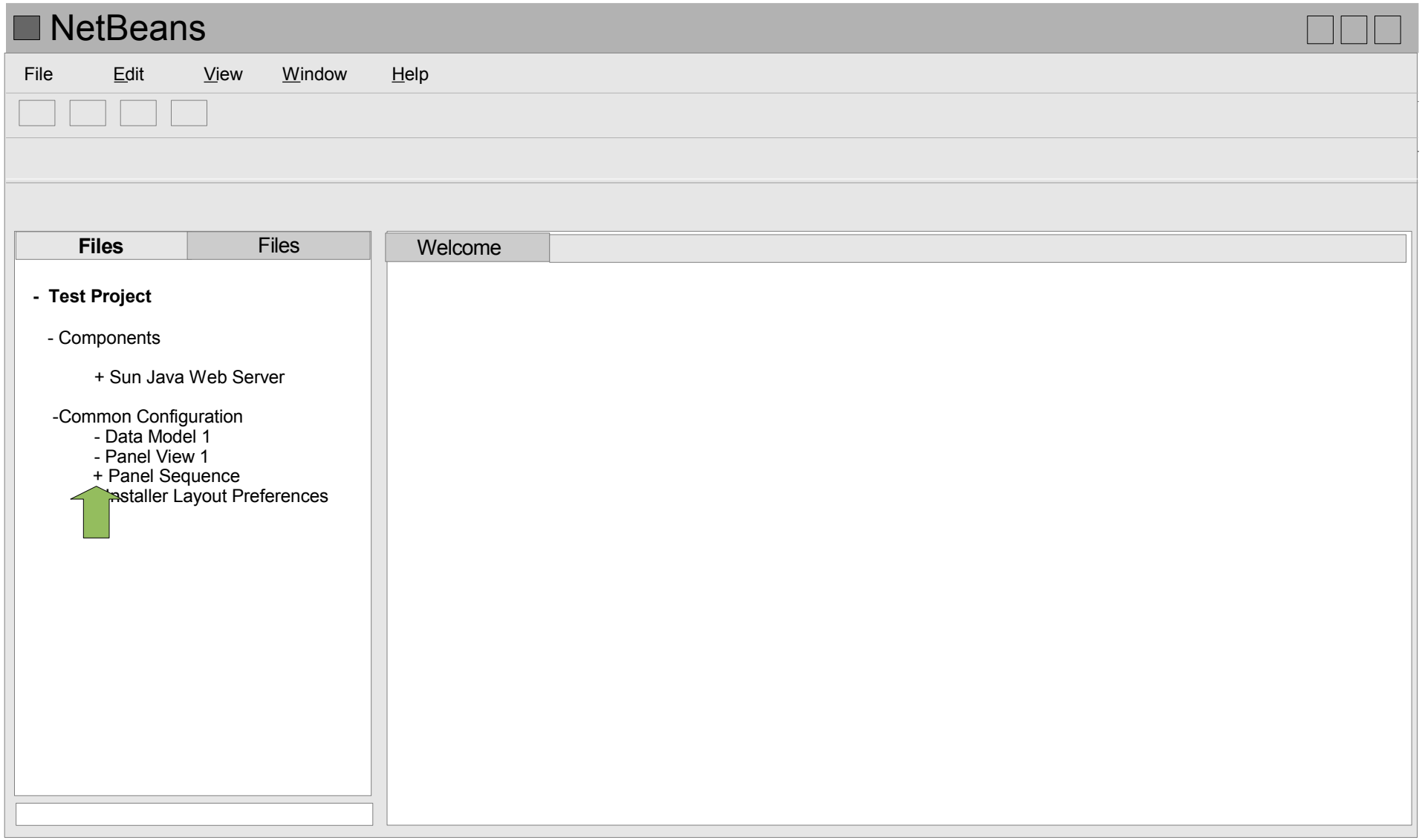
System Response



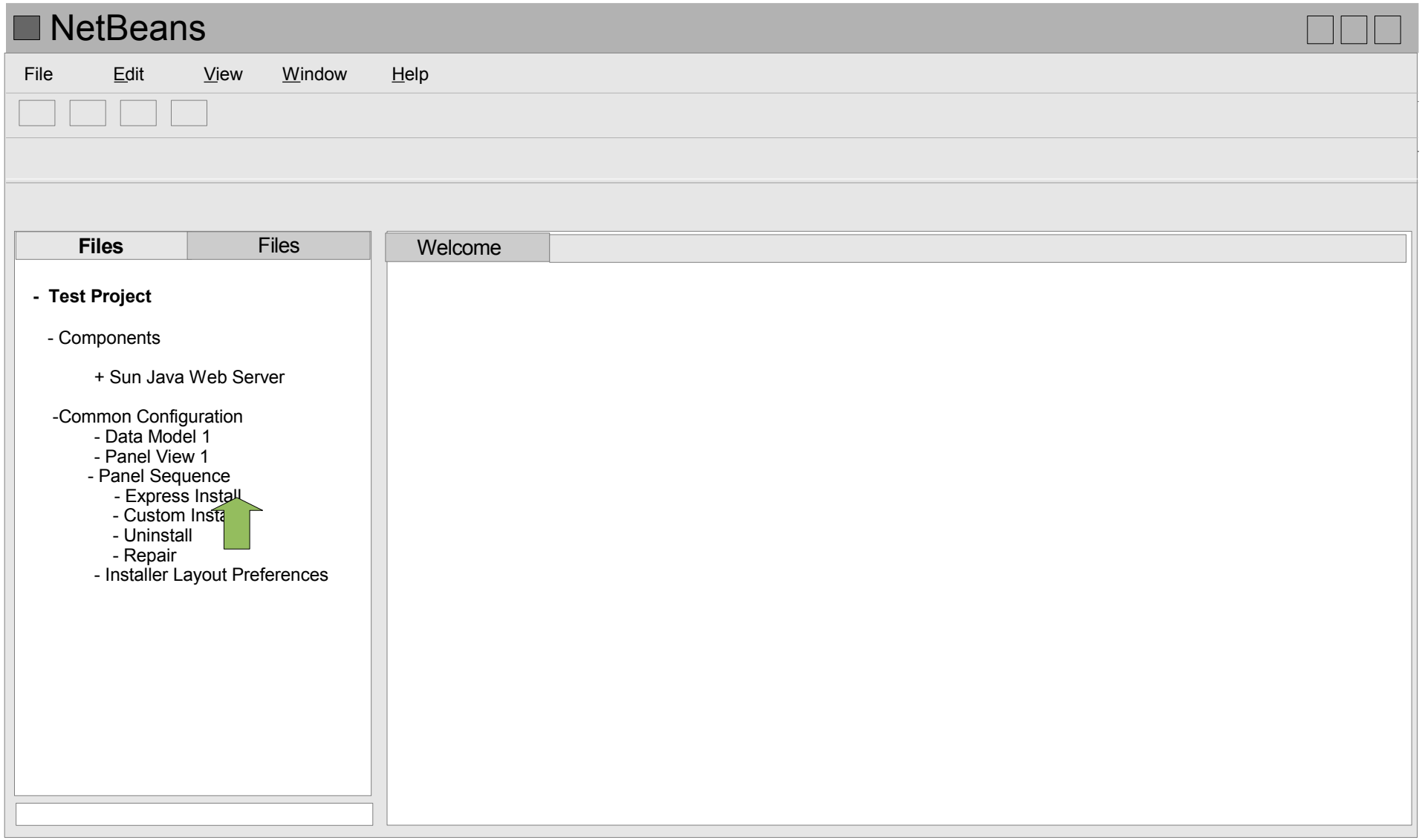
Panel Sequence



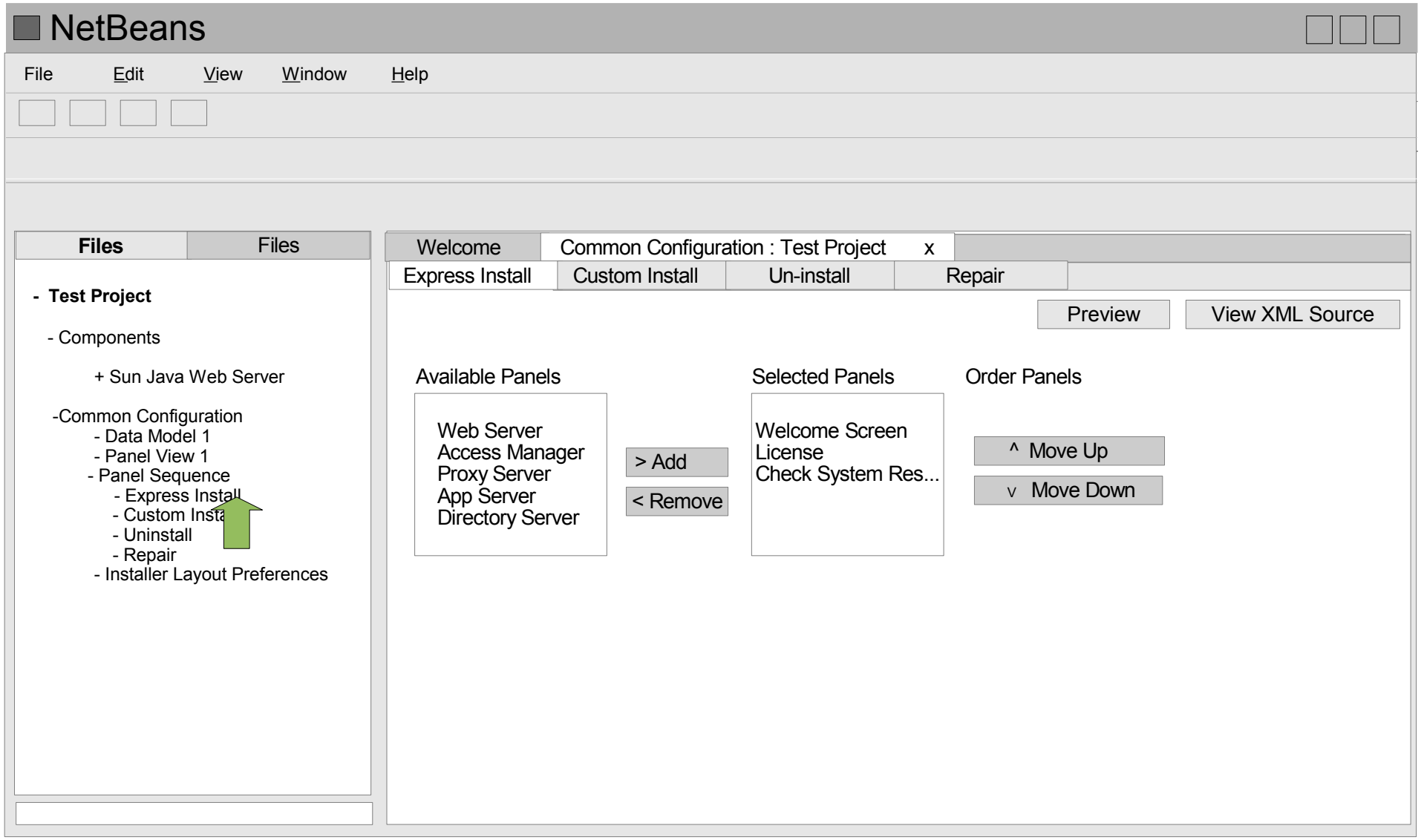
Panel Sequence



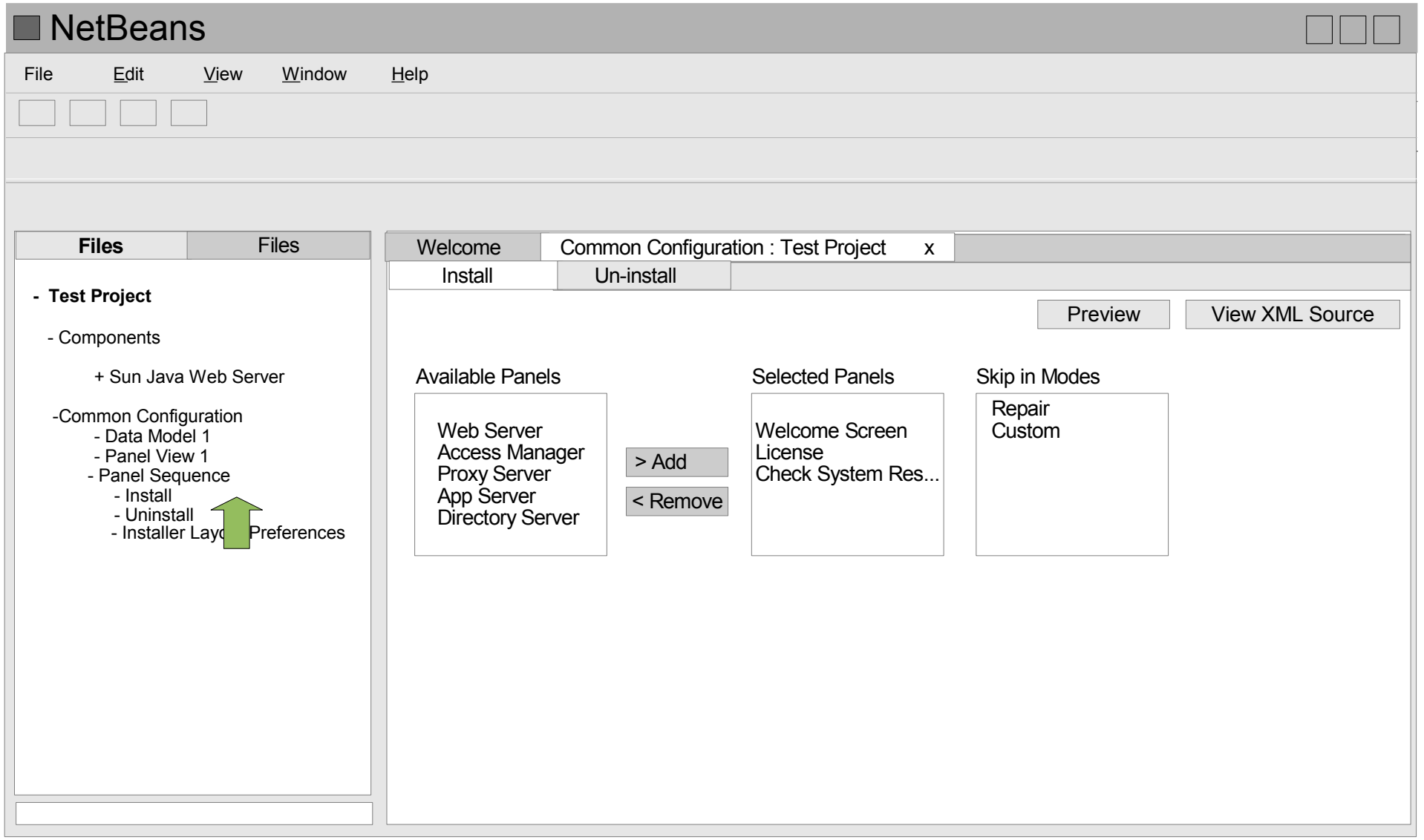
Panel Sequence

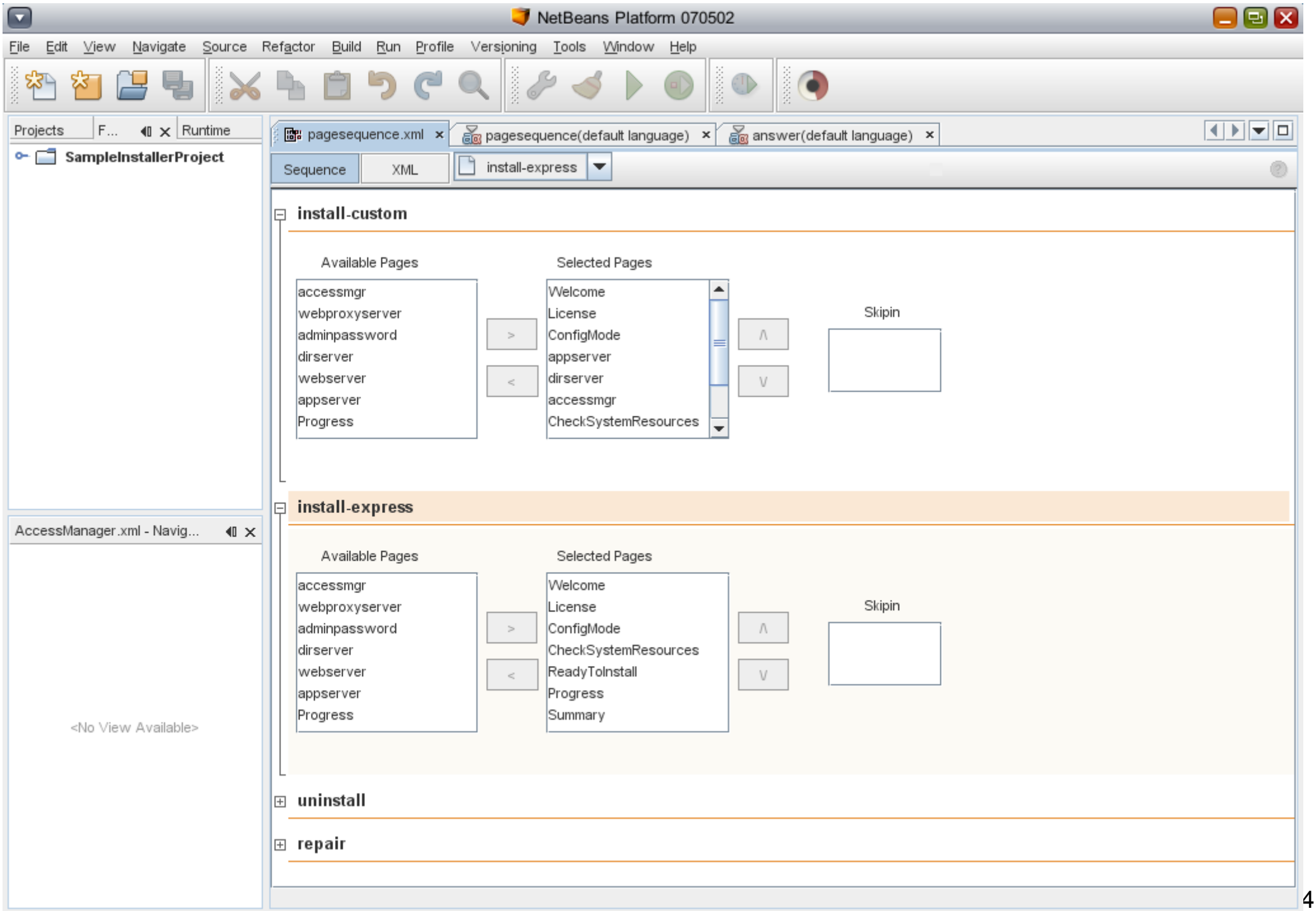


Panel Sequence : Option 1(Recommended)



Panel Sequence : Option 2 from Engg Team




NetBeans Platform 070502
File Edit View Navigate Source Refactor Build Run Profile Versioning Tools Window Help
Projects F... Runtime
SampleInstallerProject
AccessManager.xml - Navig...
<No View Available>
pagesequence.xml
pagesequence(default language)
answer(default language)
Sequence XML install-express
install-custom
Available Pages
accessmgr
webproxyserver
adminpassword
dirserver
webserver
appserver
Progress
Selected Pages
Welcome
License
ConfigMode
appserver
dirserver
accessmgr
CheckSystemResources
Skipin
install-express
Available Pages
accessmgr
webproxyserver
adminpassword
dirserver
webserver
appserver
Progress
Selected Pages
Welcome
License
ConfigMode
CheckSystemResources
ReadyToInstall
Progress
Summary
Skipin
uninstall
repair

Tree : Object Hierarchy

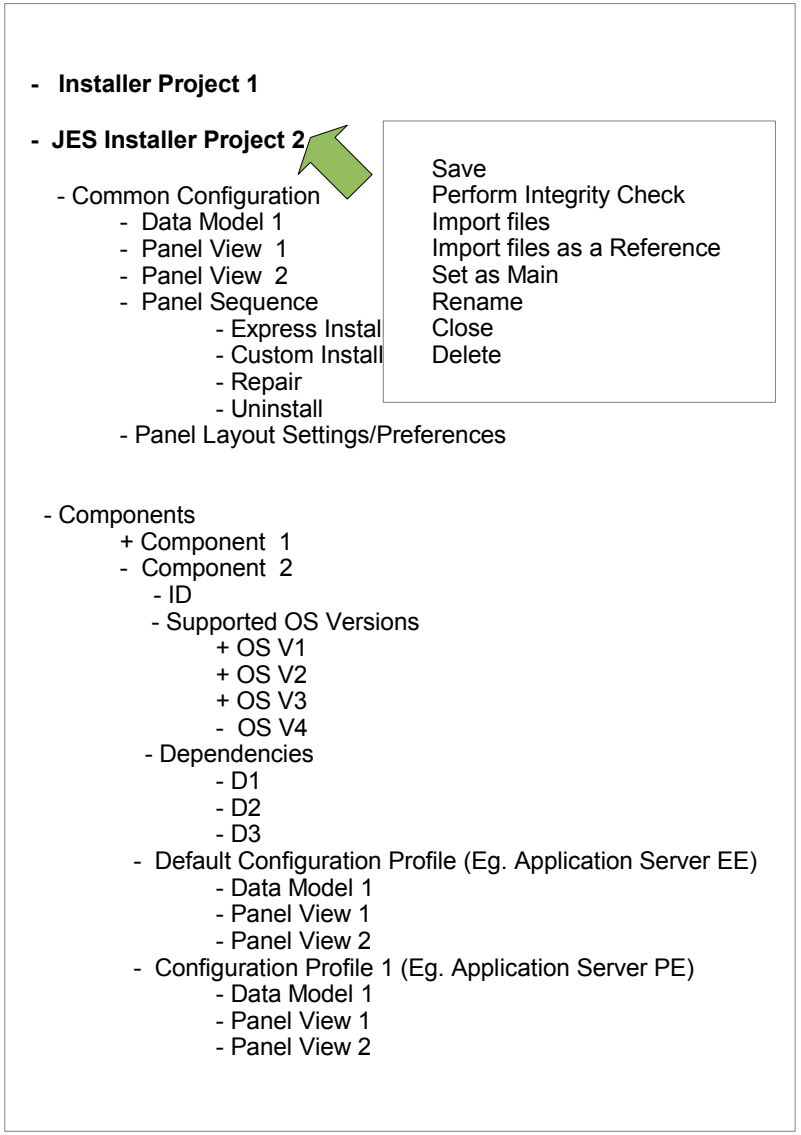
- **Installer Project 1**

- **JES Installer Project 2**

  - Common Configuration
    - Data Model 1
    - Panel View 1
    - Panel View 2
    - Panel Sequence
      - Express Install
      - Custom Install
      - Repair
      - Uninstall
    - Panel Layout Settings/Preferences

  - Components
    - + Component 1
    - Component 2
      - ID
      - Supported OS Versions
        - + OS V1
        - + OS V2
        - + OS V3
        - OS V4
      - Dependencies
        - D1
        - D2
        - D3
    - Default Configuration Profile (Eg. Application Server EE)
      - Data Model 1
      - Panel View 1
      - Panel View 2
    - Configuration Profile 1 (Eg. Application Server PE)
      - Data Model 1
      - Panel View 1
      - Panel View 2

Right Click Menus : Project



Right Click Menus : Common Configuration

- **Installer Project 1**

- **JES Installer Project 2**

  - Common Configuration
    - Data Model 1
    - Panel View 1
    - Panel View 2
    - Panel Sequence
      - Express Install
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      - Default Configuration Profile (Eg. Application Server EE)
        - Data Model 1
        - Panel View 1
        - Panel View 2
      - Configuration Profile 1 (Eg. Application Server PE)
        - Data Model 1
        - Panel View 1
        - Panel View 2

New Common Data Model
New Common Panel View
Edit Panel Sequence
Edit Panel Layout Settings
Perform Integrity Check

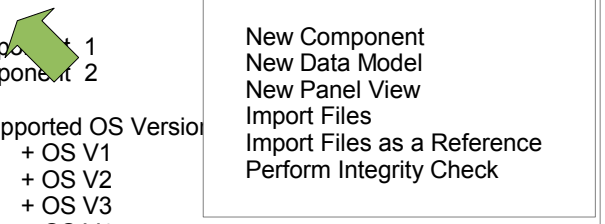
Right Click Menus : Components

- **Installer Project 1**

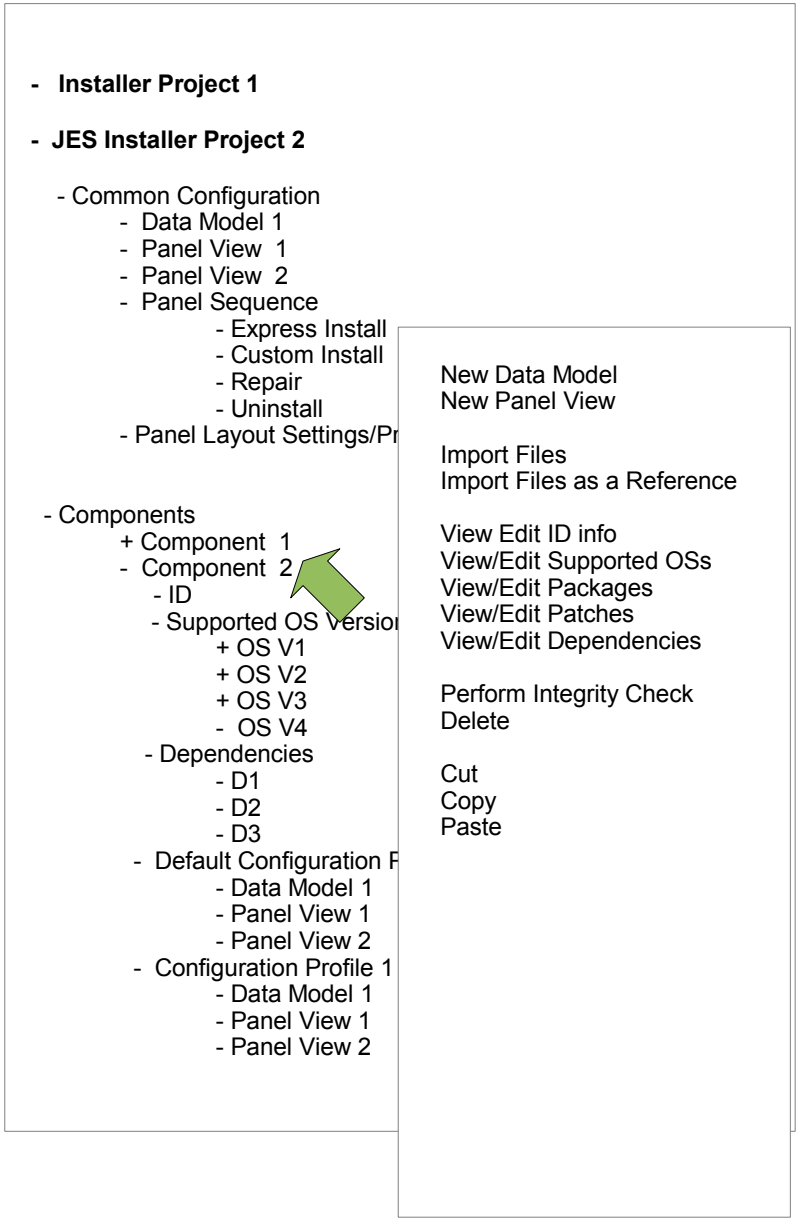
- **JES Installer Project 2**

  - Common Configuration
    - Data Model 1
    - Panel View 1
    - Panel View 2
    - Panel Sequence
      - Express Install
      - Custom Install
      - Repair
      - Uninstall
    - Panel Layout Settings/Preferences

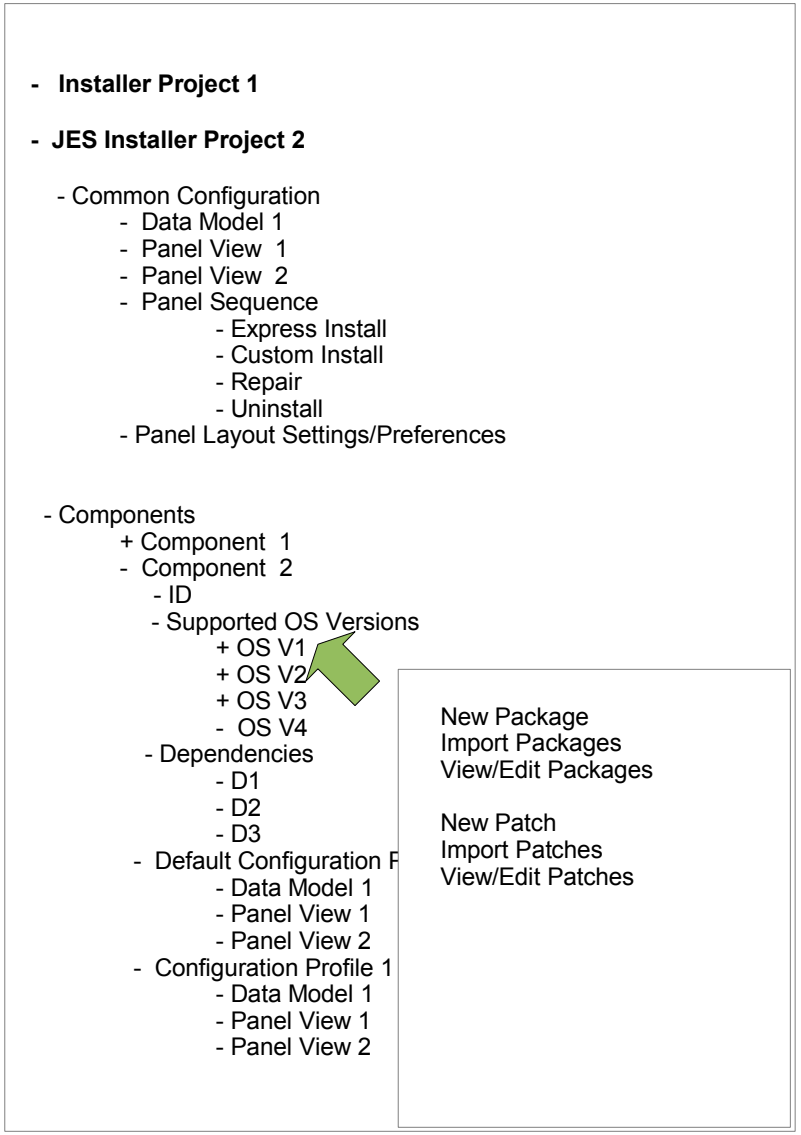
  - Components
    - + Component 1
    - Component 2
      - ID
      - Supported OS Version
        - + OS V1
        - + OS V2
        - + OS V3
        - OS V4
      - Dependencies
        - D1
        - D2
        - D3
    - Default Configuration Profile (Eg. Application Server EE)
      - Data Model 1
      - Panel View 1
      - Panel View 2
    - Configuration Profile 1 (Eg. Application Server PE)
      - Data Model 1
      - Panel View 1
      - Panel View 2



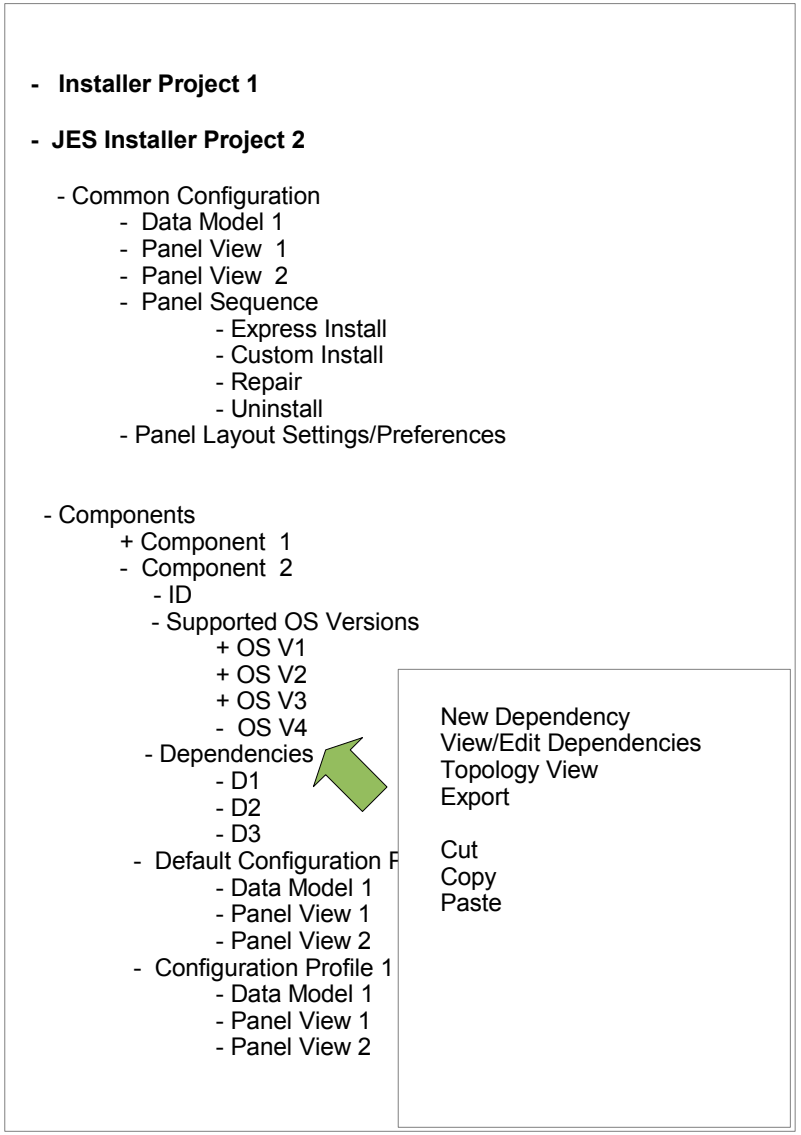
Right Click Menus : Component 2



Right Click Menus : OS V1



Right Click Menus : Dependencies



Right Click Menus : Config Profile

- **Installer Project 1**

- **JES Installer Project 2**

  - Common Configuration
    - Data Model 1
    - Panel View 1
    - Panel View 2
    - Panel Sequence
      - Express Install
      - Custom Install
      - Repair
      - Uninstall
    - Panel Layout Settings/Preferences

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    - + Component 1
    - Component 2
      - ID
      - Supported OS Versions
        - + OS V1
        - + OS V2
        - + OS V3
        - OS V4
      - Dependencies
        - D1
        - D2
        - D3
      - Default Configuration Profile (Eg. Applicatio
        - Data Model 1
        - Panel View 1
        - Panel View 2
      - Configuration Profile 1 (Eg. Application Serv
        - Data Model 1
        - Panel View 1
        - Panel View 2

New Data Model
Import Data Model
Edit Data Model

New Panel View
Import Panel View
Edit Panel View
Rename
Delete

Right Click Menus : Data Model

- **Installer Project 1**

- **JES Installer Project 2**

  - Common Configuration
    - Data Model 1
    - Panel View 1
    - Panel View 2
    - Panel Sequence
      - Express Install
      - Custom Install
      - Repair
      - Uninstall
    - Panel Layout Settings/Preferences

  - Components
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    - Component 2
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        + OS V1
        + OS V2
        + OS V3
        - OS V4
      - Dependencies
        - D1
        - D2
        - D3
      - Default Configuration Profile (Eg. Application Server EE)
        - Data Model 1
        - Panel View 1
        - Panel View 2
      - Configuration Profile 1 (Eg. Appl
        - Data Model 1
        - Panel View 1
        - Panel View 2

Edit
Rename
Delete

Cut
Copy
Paste

Right Click Menus : Panel View

- **Installer Project 1**

- **JES Installer Project 2**

  - Common Configuration
    - Data Model 1
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    - Panel Sequence
      - Express Install
      - Custom Install
      - Repair
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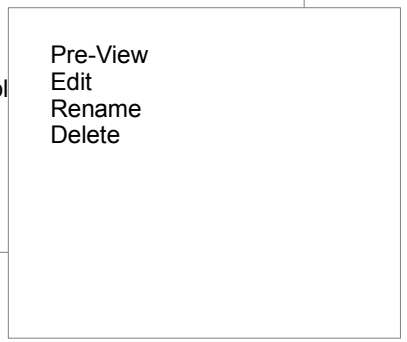
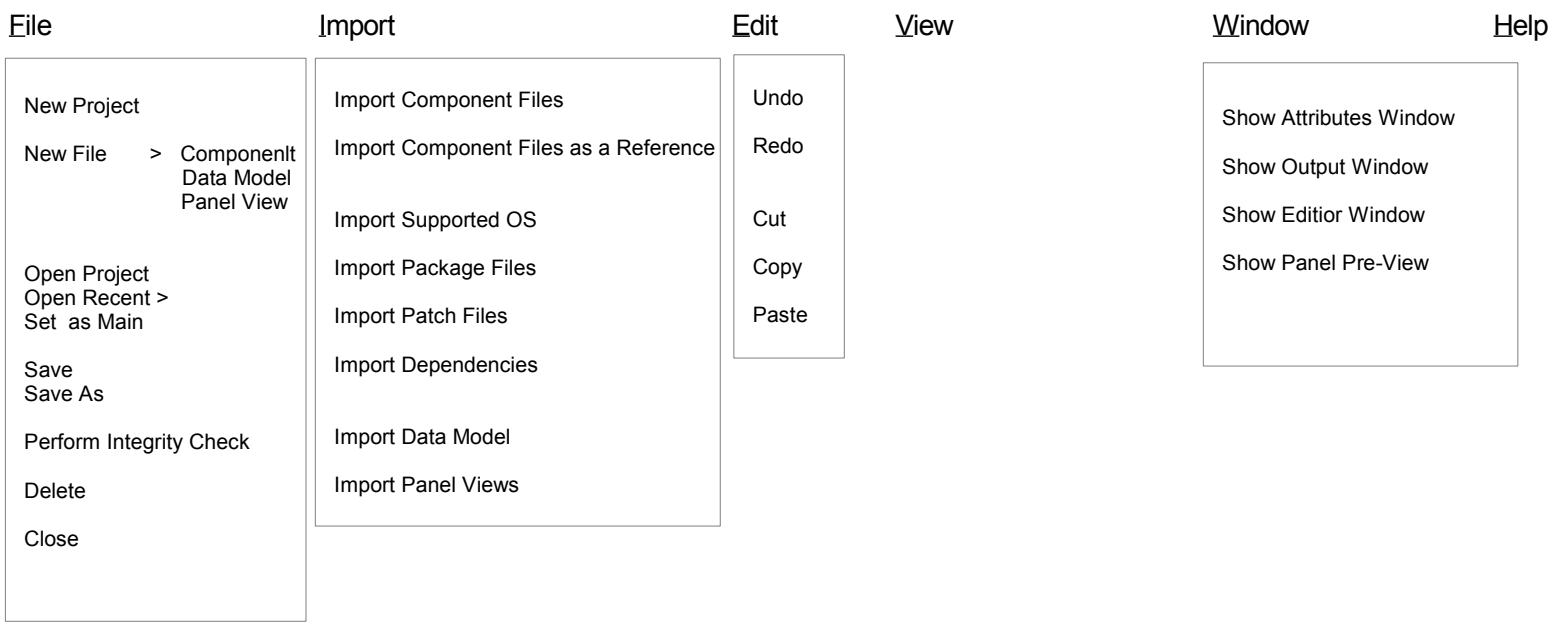
        + OS V1
        + OS V2
        + OS V3
        - OS V4
      - Dependencies
        - D1
        - D2
        - D3
      - Default Configuration Profile (Eg. Application Server EE)
        - Data Model 1
        - Panel View 1
        - Panel View 2
      - Configuration Profile 1 (Eg. Appl
        - Data Model 1
        - Panel View 1
        - Panel View 2



Menu Structure



Visual Design : Icons (1/2)

- **Installer Project 1**

- **JES Installer Project 2**

  - Common Configuration
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      - Panel View 2
    - Configuration Profile 1 (Eg. Application Server PE)
      - Data Model 1
      - Panel View 1
      - Panel View 2

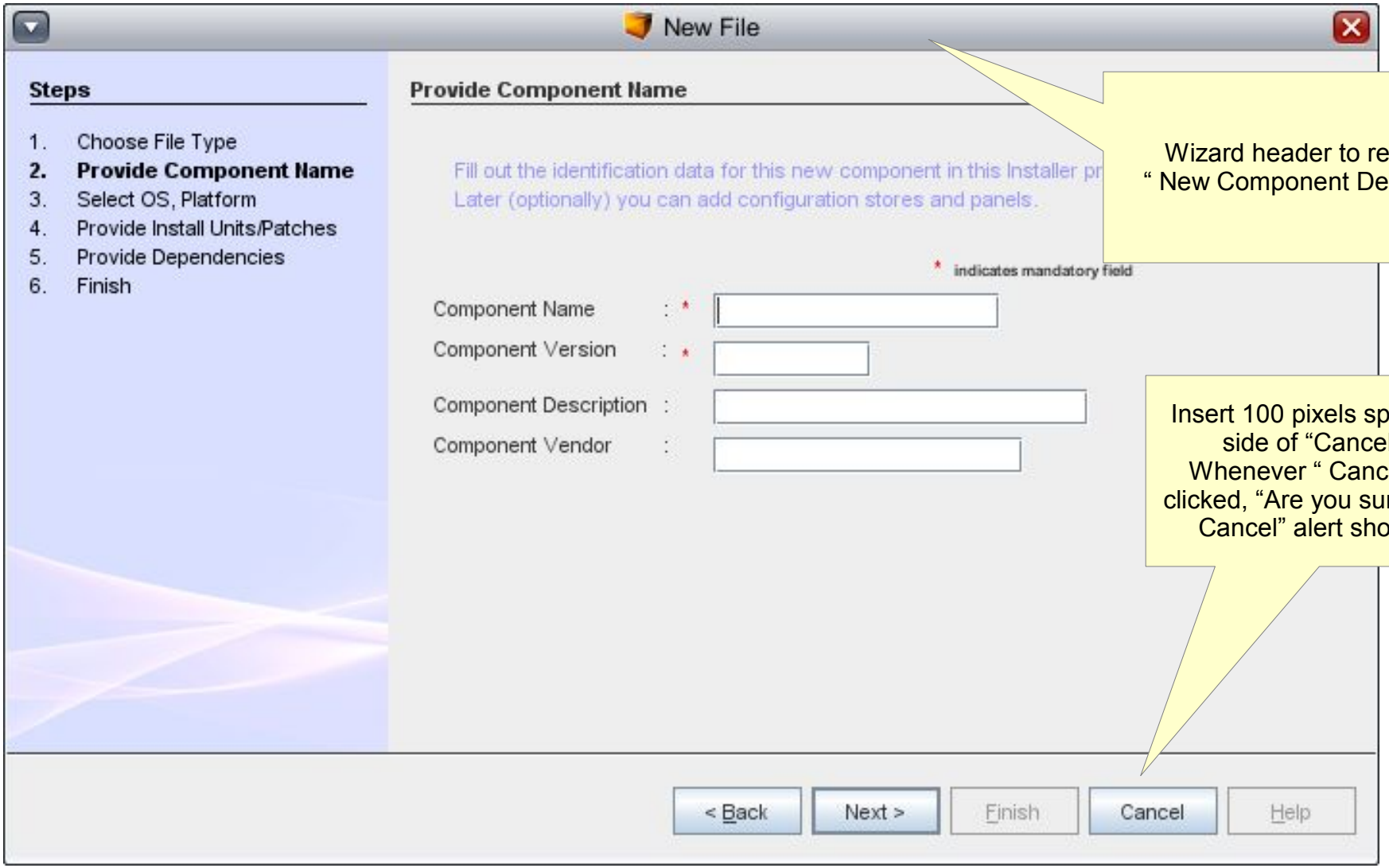
Project	:
Data Model	: Supplies Data Fields and Labels in a form
Panel View	: Layout containing the organized Fields and Labels
Panel Sequence	: The order in which Installer Panels appear
Panel Layout Settings	: Contains settings for Left, Top, Bottom, central parts of the Layout
Components	: Combination of multiple component products
Component	: Individual component product
Supported Operation Sysems	: List of Operation Systems with Versions for which the individual component product is packaged for
Dependencies	: Dependent files of individual components
Configuration Profile	: Contains a combination of a Data Model and Panel View Eg. App Server EE, App Server PE

Generalized Icon to indicate child objects :

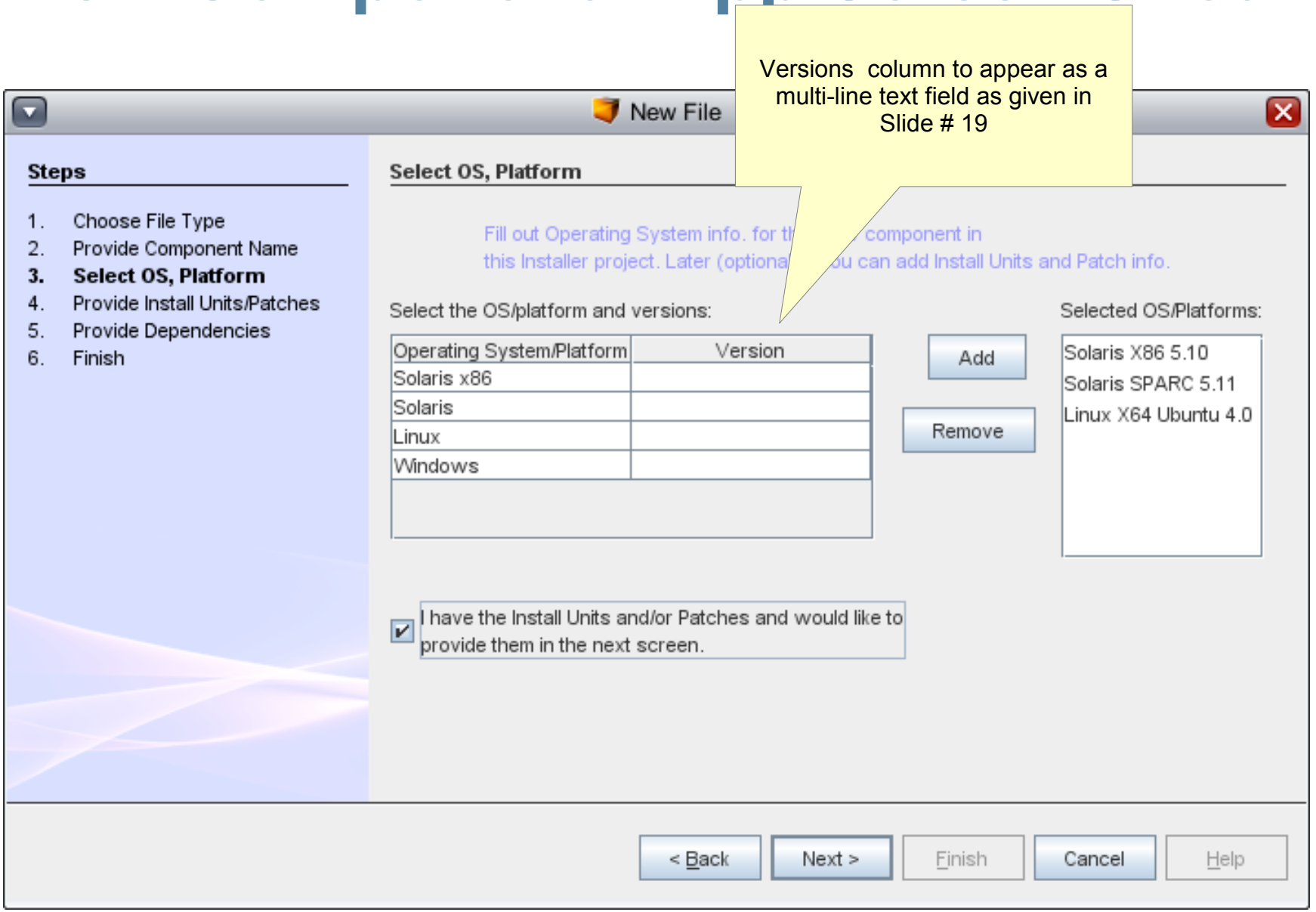
Visual Design : (2/2)

- Branding Guidelines for Open Sourced Products?
- Logo
- Splash Screen
- About Box Image
- Background Image
- Any other?

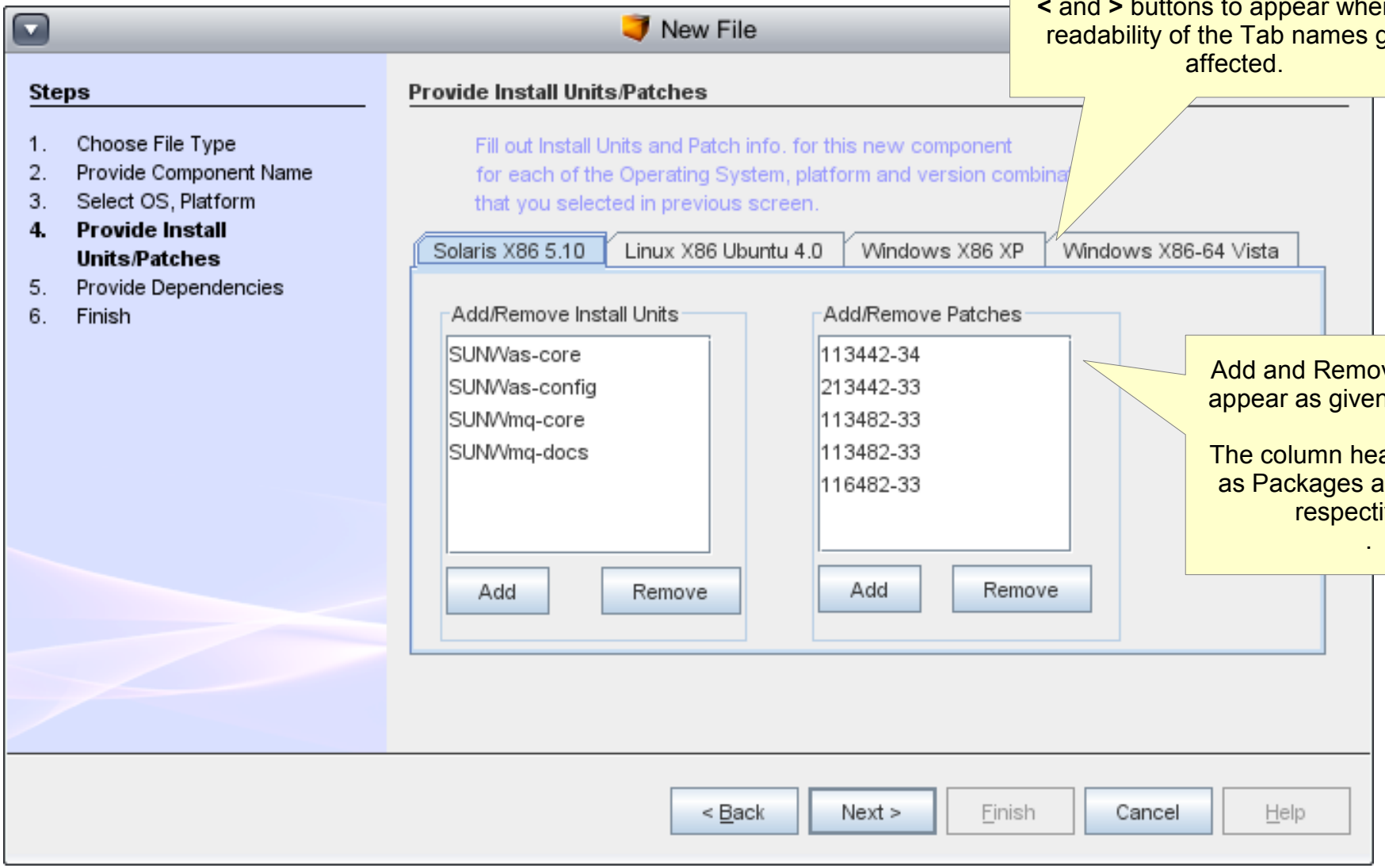
New Component : App Screen Shot



New Component : App Screen Shot



New Component : App Scre



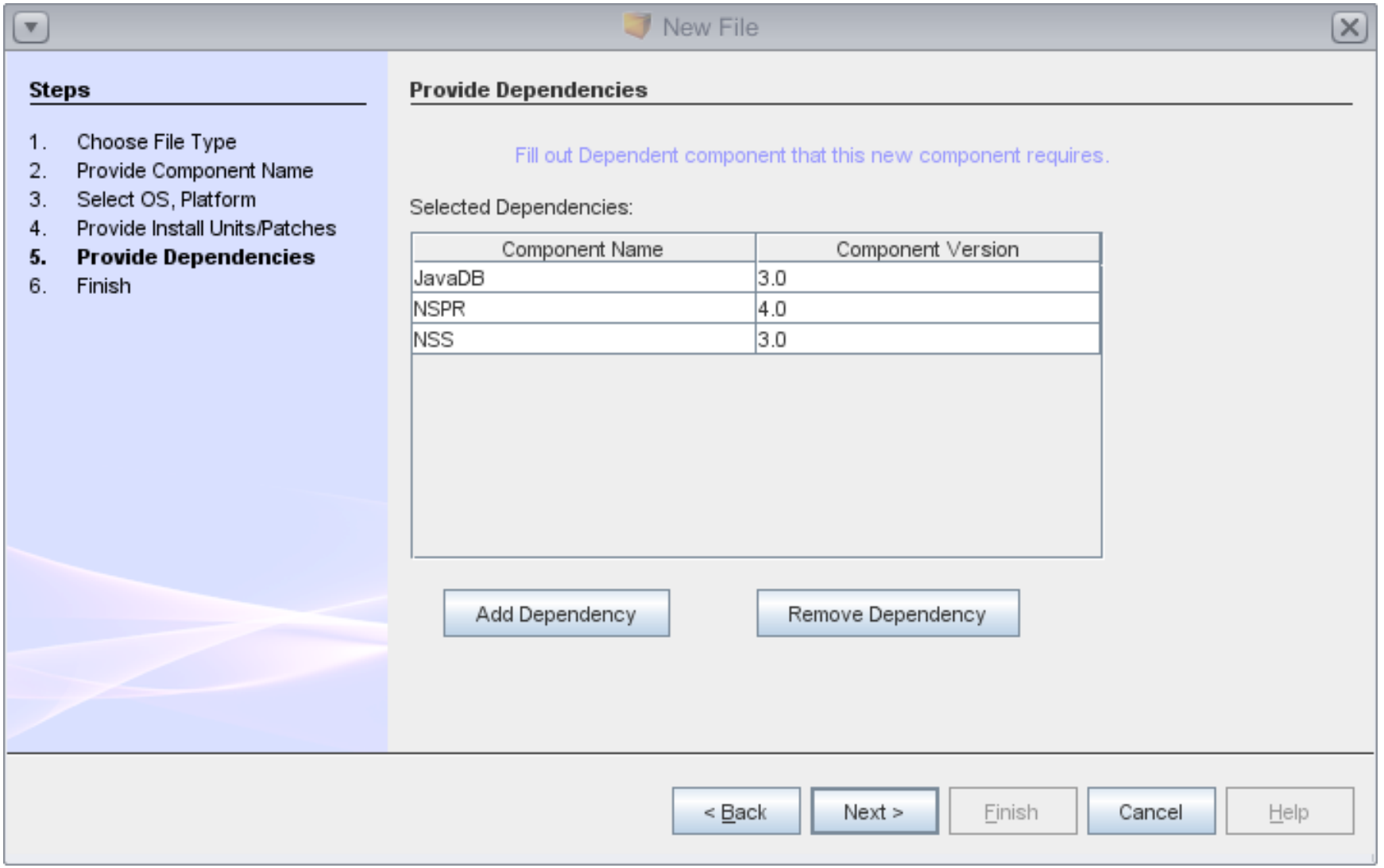
What is the average no of Tabs that will appear here?
No. of Tabs could have an impact on the readability of the Tab Names.
< and **>** buttons to appear when the readability of the Tab names gets affected.

Add and Remove buttons to appear as given in Slide#22.

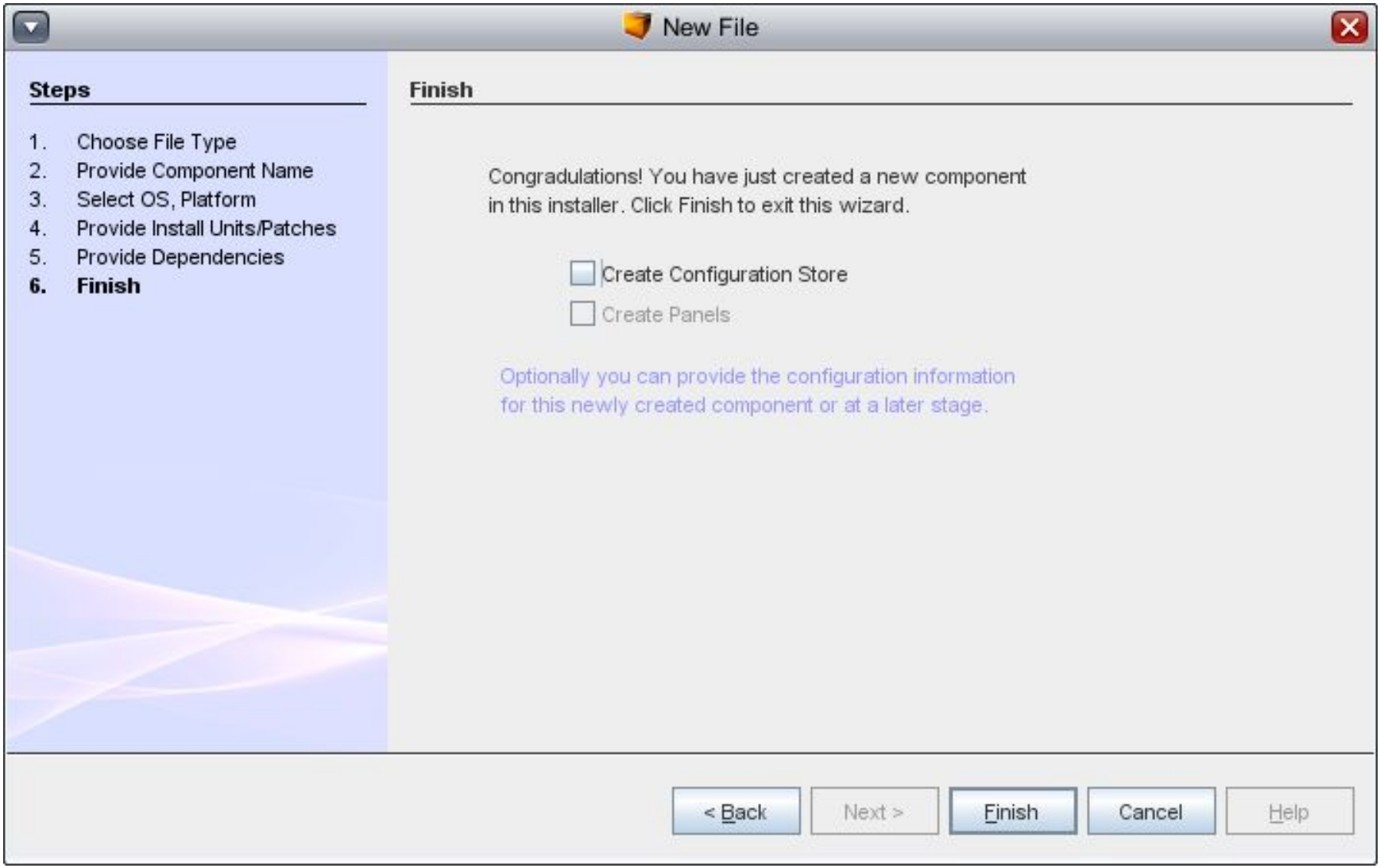
The column headers to read as Packages and Patches, respectively..

.

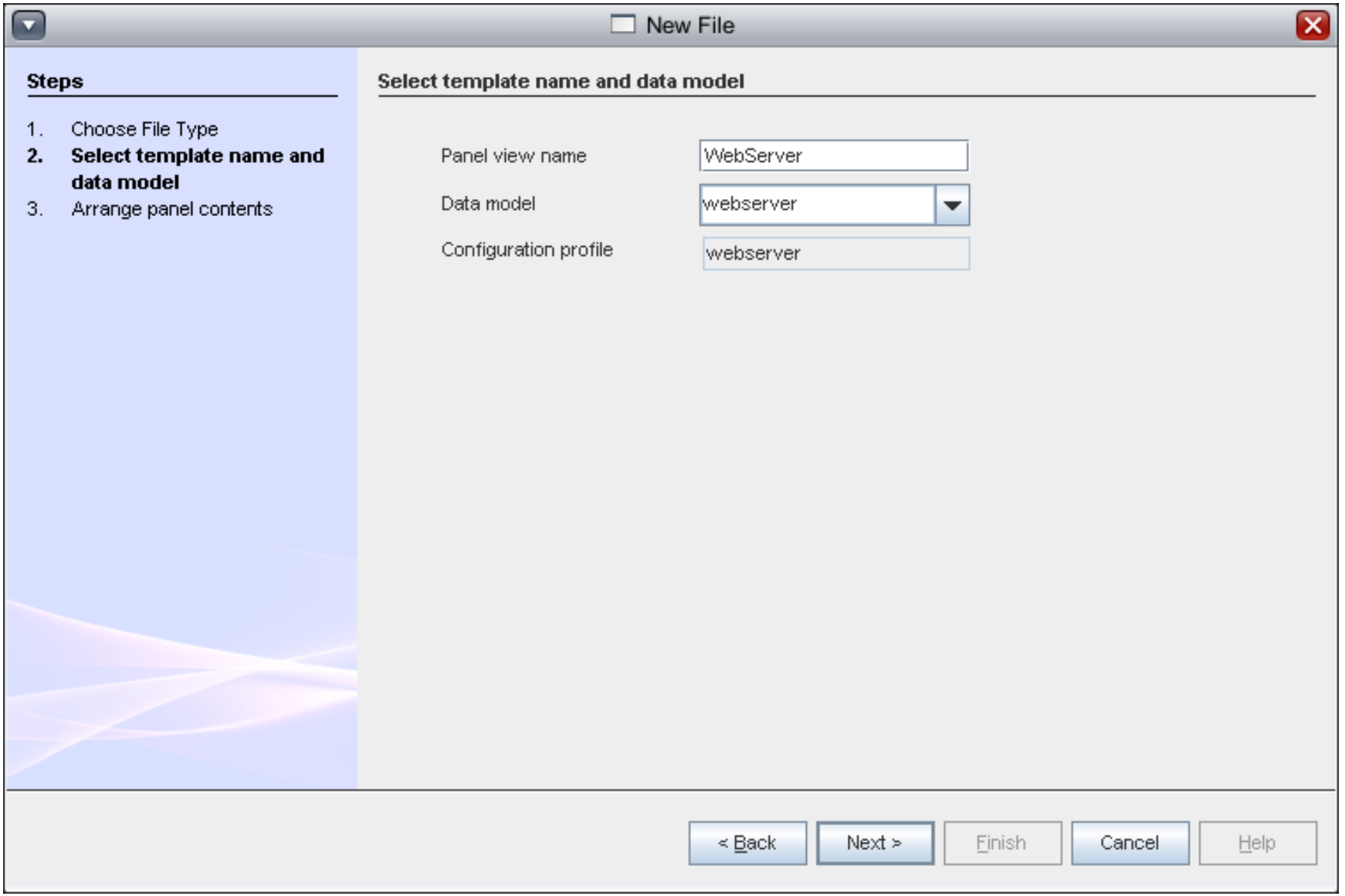
New Component : App Screen Shot



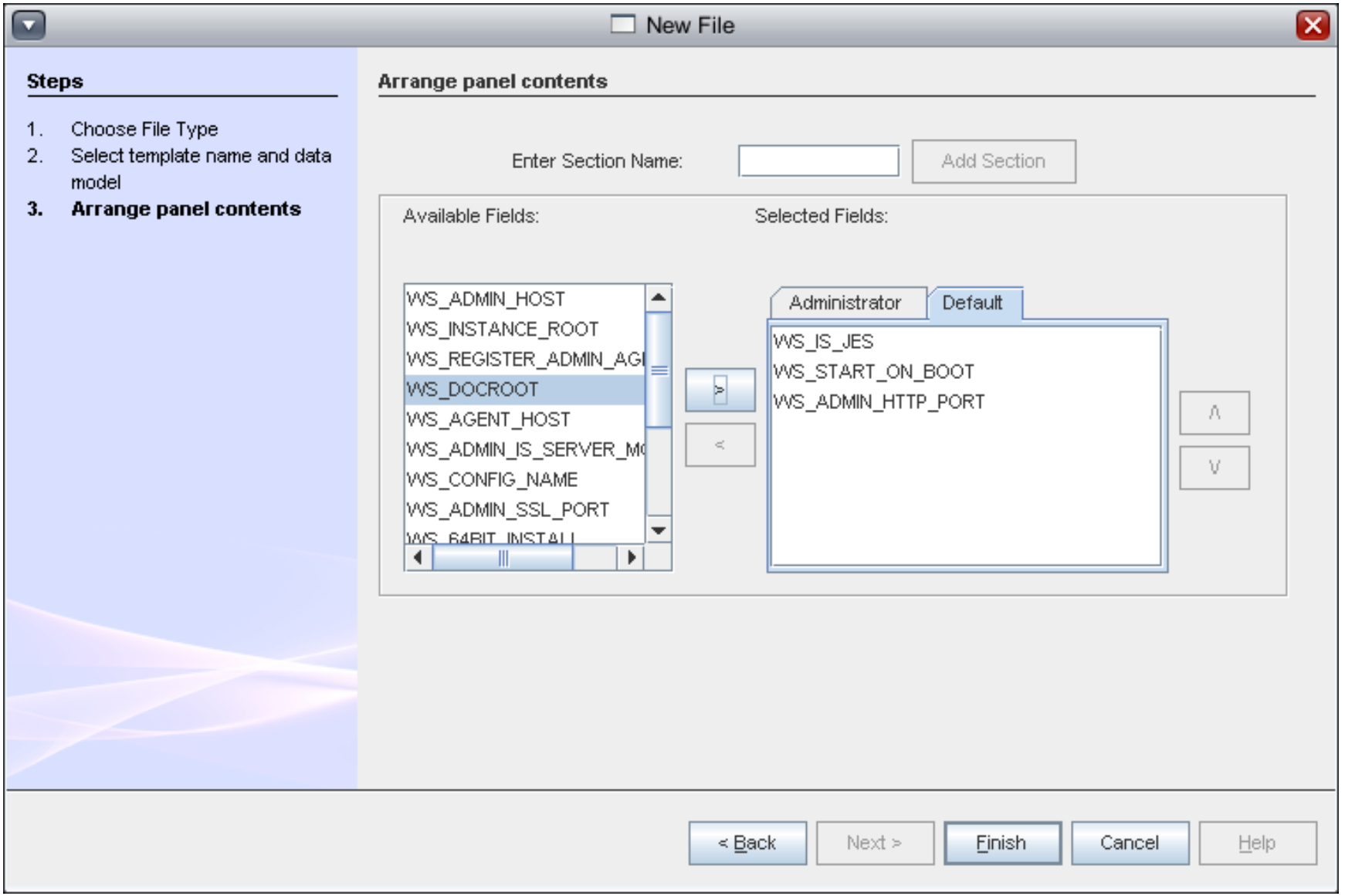
New Component : App Screen Shot



New Panel Wizard



New Panel Wizard



That's all folks!

Muthu R
muthu.r@sun.com
xDesign