

Requirements

by webfem team

NOTICE: Requirements

Requirements.

1. Hardware requirements

- 40 Mb disk space for the web application.
- suggested 256 Mb RAM

2. Software requirements

2.1. Server requirements

- JDK - j2sdk1.4.x
- Application server Java(tested with Tomcat 4.1.29)

2.2. Client SVG requirements

Web browser with SVG plugin(tested with Adobe plugin 3)

Note:

The SVG client is the first client developed, you can develop your client with C++,VB,Java or another languages. The interface with the server is HTTP POST with xml message.

Example xml message(This xml is accessible from the mesher choice "External XML model")

```
<wfe:symxml xmlns:wfe="http://www.webfem.org">
  <<wfe:clusterconfig>
    <wfe:envParams remote_local="local" numThreads="1" rpcMode="DII_MODE"/>
  </wfe:clusterconfig>
</wfe:symxml>
```

```

        <wfe:cluster>
            <wfe:clusterNode active="true" nodeName="localhost" hostPort="8
            <wfe:clusterNode active="false" nodeName="server_2" hostPort="8
            <wfe:clusterNode active="false" nodeName="server_3" hostPort="8
        </wfe:cluster>
    </wfe:clusterconfig>
    <wfe:MESH>
    <wfe:PDE pde="1"/>
    <wfe:PROBLEM_DIMENSION problemDimension="2"/>
    <wfe:MATERIAL_PROPERTIES YoungModulus="1e6" PoissonCoefficient="0.2"/>
    <wfe:SHAPE_CODE shapeCode="2"/>
    <wfe:FINITE_ELEMENT finiteElement="3"/>
    <wfe:X_PARTITIONS x_Partitions="2"/>
    <wfe:Y_PARTITIONS y_Partitions="2"/>
    <wfe:ELEMENTS num="4">
    <wfe:ELEMENT index="0" name="LinearSquare" structure="Structure">
    <wfe:NODES num="4">
    <wfe:NODE index="0"/>
    <wfe:NODE index="1"/>
    <wfe:NODE index="4"/>
    <wfe:NODE index="3"/>
    </wfe:NODES>
    </wfe:ELEMENT>
    <wfe:ELEMENT index="1" name="LinearSquare" structure="Structure">
    <wfe:NODES num="4">
    <wfe:NODE index="1"/>
    <wfe:NODE index="2"/>
    <wfe:NODE index="5"/>
    <wfe:NODE index="4"/>
    </wfe:NODES>
    </wfe:ELEMENT>
    <wfe:ELEMENT index="2" name="LinearSquare" structure="Structure">
    <wfe:NODES num="4">
    <wfe:NODE index="3"/>
    <wfe:NODE index="4"/>
    <wfe:NODE index="7"/>
    <wfe:NODE index="6"/>
    </wfe:NODES>
    </wfe:ELEMENT>
    <wfe:ELEMENT index="3" name="LinearSquare" structure="Structure">
    <wfe:NODES num="4">
    <wfe:NODE index="4"/>
    <wfe:NODE index="5"/>
    <wfe:NODE index="8"/>
    <wfe:NODE index="7"/>
    </wfe:NODES>
    </wfe:ELEMENT>
    </wfe:ELEMENTS>
    <wfe:NODELIST num="9">
    <wfe:NODE index="0" id="modelNode_0" x="0.0" y="0.0" z="0.0" ubc1="0" ubc2="" p
    <wfe:NODE index="1" id="modelNode_1" x="100.0" y="0.0" z="0.0" ubc1="0" ubc2="0
    <wfe:NODE index="2" id="modelNode_2" x="200.0" y="0.0" z="0.0" ubc1="0" ubc2="0
    <wfe:NODE index="3" id="modelNode_3" x="0.0" y="100.0" z="0.0" ubc1="" ubc2=""
    <wfe:NODE index="4" id="modelNode_4" x="100.0" y="100.0" z="0.0" ubc1="" ubc2=""

```

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```
<wfe:NODE index="5" id="modelNode_5" x="200.0" y="100.0" z="0.0" ubc1="" ubc2=""  
<wfe:NODE index="6" id="modelNode_6" x="0.0" y="200.0" z="0.0" ubc1="" ubc2=""  
<wfe:NODE index="7" id="modelNode_7" x="100.0" y="200.0" z="0.0" ubc1="" ubc2=""  
</wfe:NODE index="8" id="modelNode_8" x="200.0" y="200.0" z="0.0" ubc1="" ubc2=""  
</wfe:NODELIST>  
</wfe:MESH>  
</wfe:symxml>
```

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