

# Simple Webservice Without Interface

Example `simple-webservice-without-interface` can be browsed at <https://github.com/apache/tomee/tree/master/examples/simple-webservice-without-interface>

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## Calculator

```
package org.superbiz.calculator;

import javax.ejb.Stateless;
import javax.ws.WebService;

@Stateless
@WebService(
    portName = "CalculatorPort",
    serviceName = "CalculatorWsService",
    targetNamespace = "http://superbiz.org/wsdl")
public class Calculator {
    public int sum(int add1, int add2) {
        return add1 + add2;
    }

    public int multiply(int mul1, int mul2) {
        return mul1 * mul2;
    }
}
```

## ejb-jar.xml

```
<ejb-jar/>
```

## CalculatorTest

```

package org.superbiz.calculator;

import org.apache.commons.io.IOUtils;
import org.junit.AfterClass;
import org.junit.Before;
import org.junit.BeforeClass;
import org.junit.Test;

import javax.ejb.embeddable.EJBContainer;
import javax.naming.NamingException;
import java.net.URL;
import java.util.Properties;

import static org.junit.Assert.assertTrue;

public class CalculatorTest {
    private static EJBContainer container;

    @BeforeClass
    public static void setUp() throws Exception {
        final Properties properties = new Properties();
        properties.setProperty("openejb.embedded.remotable", "true");

        container = EJBContainer.createEJBContainer(properties);
    }

    @Before
    public void inject() throws NamingException {
        if (container != null) {
            container.getContext().bind("inject", this);
        }
    }

    @AfterClass
    public static void close() {
        if (container != null) {
            container.close();
        }
    }

    @Test
    public void wsdlExists() throws Exception {
        final URL url = new URL("http://127.0.0.1:4204/Calculator?wsdl");
        assertTrue(IOUtils.readLines(url.openStream()).size() > 0);
        assertTrue(IOUtils.readLines(url.openStream()).toString().contains(
            "CalculatorWsService"));
    }
}

```

# ejb-jar.xml

```
<ejb-jar/>
```