

The Remote Interface

/* The remote interface is what **clients operate on when the interact with EJB objects. The container vendor will implement this interface */**

```
public interface Hello extends javax.ejb.EJBObject {  
    public String hello() throws java.rmi.RemoteException;  
}
```

The Local Interface

/* The local interface is what **clients operate on when the interact with EJB local objects. The container vendor will implement this interface */**

```
public interface HelloLocal extends javax.ejb.EJBLocalObject {  
    public String hello();  
}
```

The Home Interface

/* The home interface is implemented by EJB server's tools. It serves as the **factory for EJB objects**. The create() method is used to create EJB objects */

```
public interface HelloHome extends javax.ejb.EJBHome {  
    Hello create() throws java.rmi.RemoteException,  
    javax.ejb.CreateException;  
}
```

The Local Home Interface

/* The local home interface is implemented by EJB server's tools. It serves as the **factory for EJB objects**. The create() method is used to create EJB objects */

```
public interface HelloLocalHome extends javax.ejb.EJBLocalHome {  
    HelloLocal create() throws javax.ejb.CreateException;  
}
```

The Bean Class (1)

/* The bean is a **stateless session** bean. The required methods are ejbCreate(), ejbRemove, ejbPassivate, ejbActivate, etc*/

```
public class HelloBean implements javax.ejb.SessionBean {  
    private javax.ejb.SessionContext ctx;  
    public void ejbCreate() {  
        System.out.println("ejbCreate()");  
    }  
    public void ejbRemove() {  
        System.out.println("ejbRemove()");  
    }  
}
```

The Bean Class (2)

```
public void ejbActivate() {  
    System.out.println("ejbActivate()");  
}  
public void ejbPassivate() {  
    System.out.println("ejbPassivate()");  
}  
public void setSessionContext(javax.ejb.sessionContext ctx) {  
    this.ctx= ctx;  
}
```

The Bean Class (3)

```
// Business methods
```

```
public String hello() {  
    System.out.println("hello()");  
    return "Hello, World!";  
}
```

```
}
```

The Deployment Descriptor (DD)

```
<?xml version="1.0" encoding="UTF-8"?>
<ejb-jar ... version="2,1">
<enterprise-beans>
<session>
<ejb-name>HelloWorldEJB</ejb-name>
<home>examples.ejb21HelloHome</home>
<remote>examples.ejb21Hello</remote>
<local-home>examples.ejb21HelloLocalHome</local-home>
<local>examples.ejb21HelloLocal</local>
<ejb-class>examples.ejb21HelloBean</ejb-class>
<session-type>Stateless</session-type>
<transaction-type>Container</transaction-type>
</session>
</enterprise-beans>
</ejb-jar>
```