

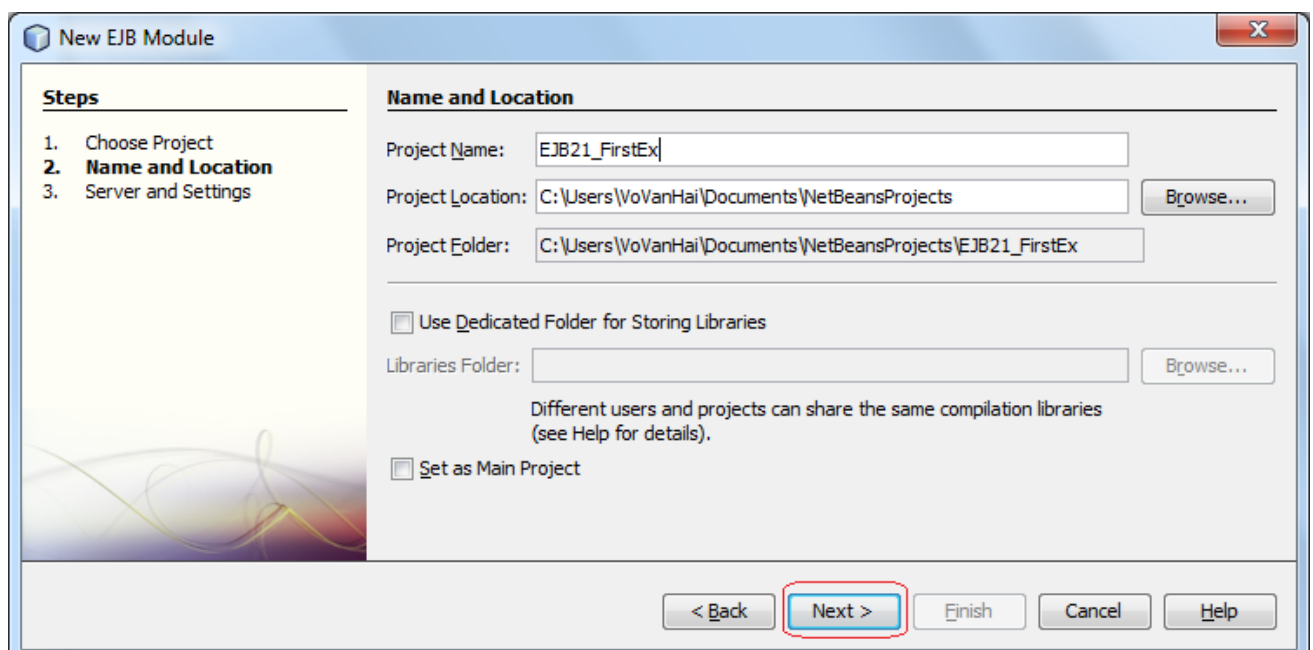
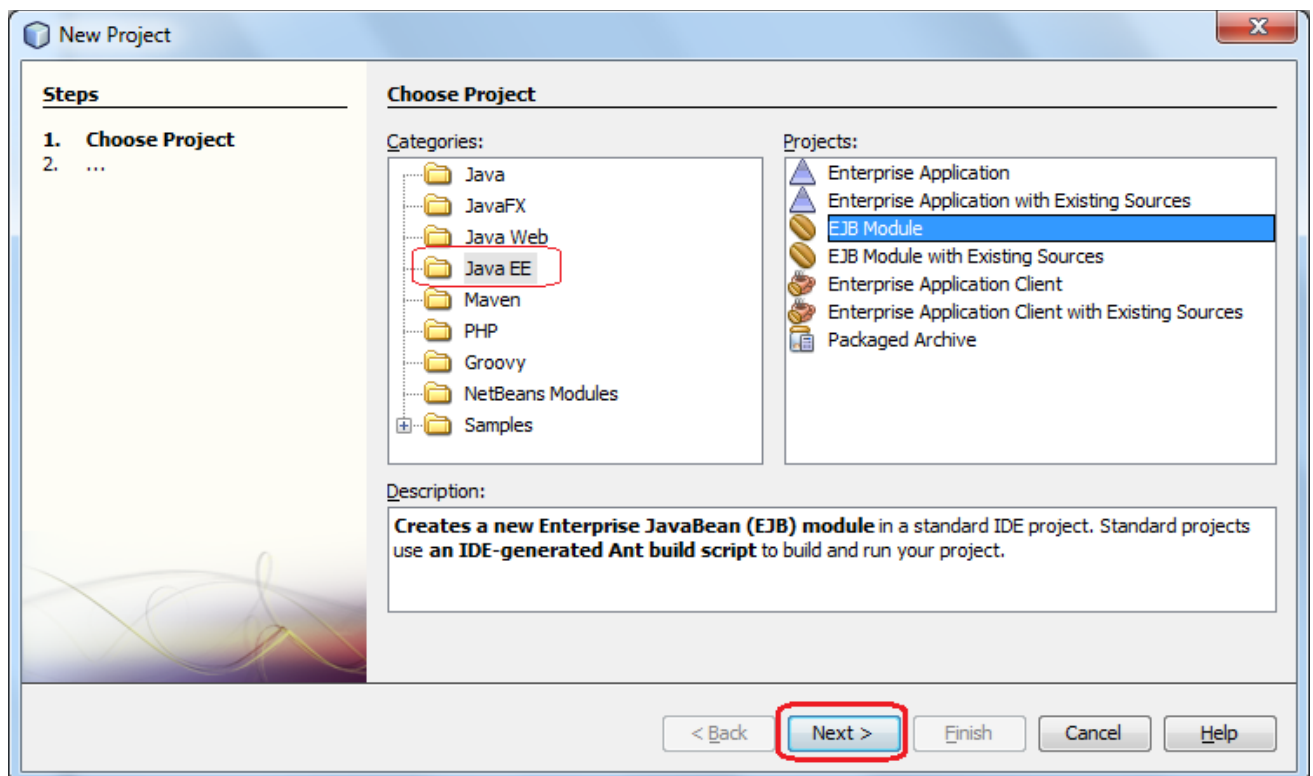
Stateless Session Bean EJB21 với NetBeans 6.7.1

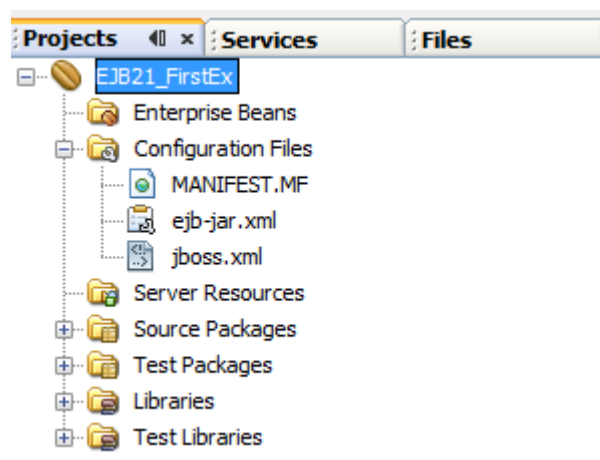
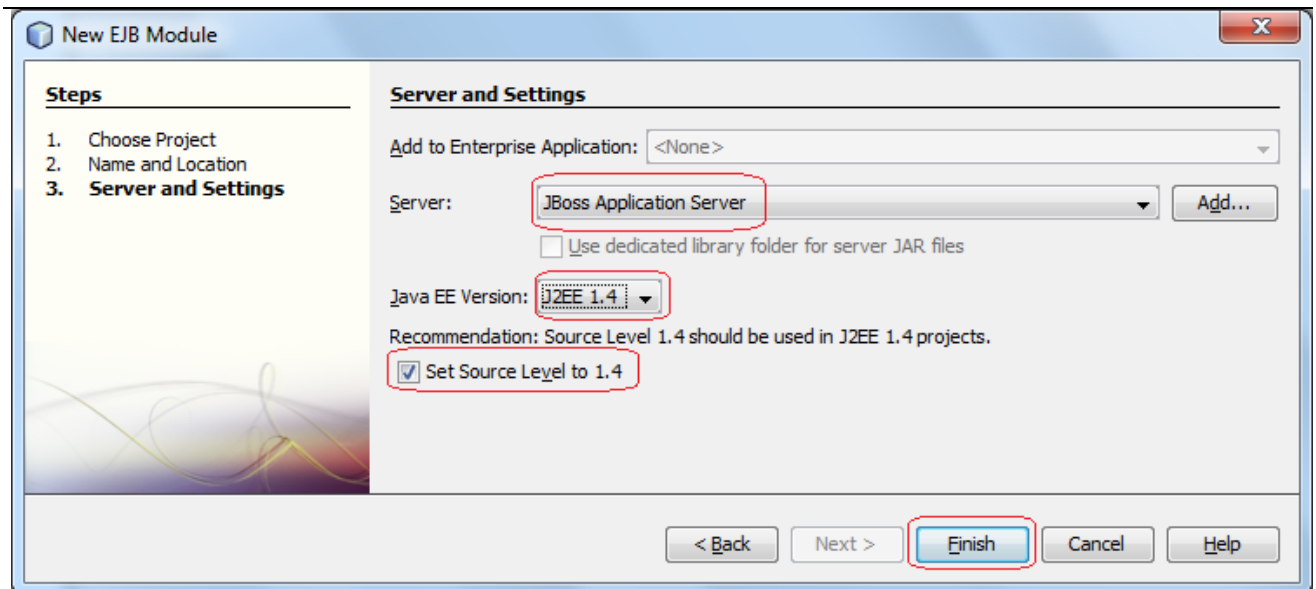
Trong bài này chúng ta sẽ tạo 1 Stateless Session Bean cho việc chuyển đổi tiền tệ có tên ConvertEJB và phần client. Lần lượt chúng ta sẽ làm các bước như sau:

Phần 1: Tạo EJB

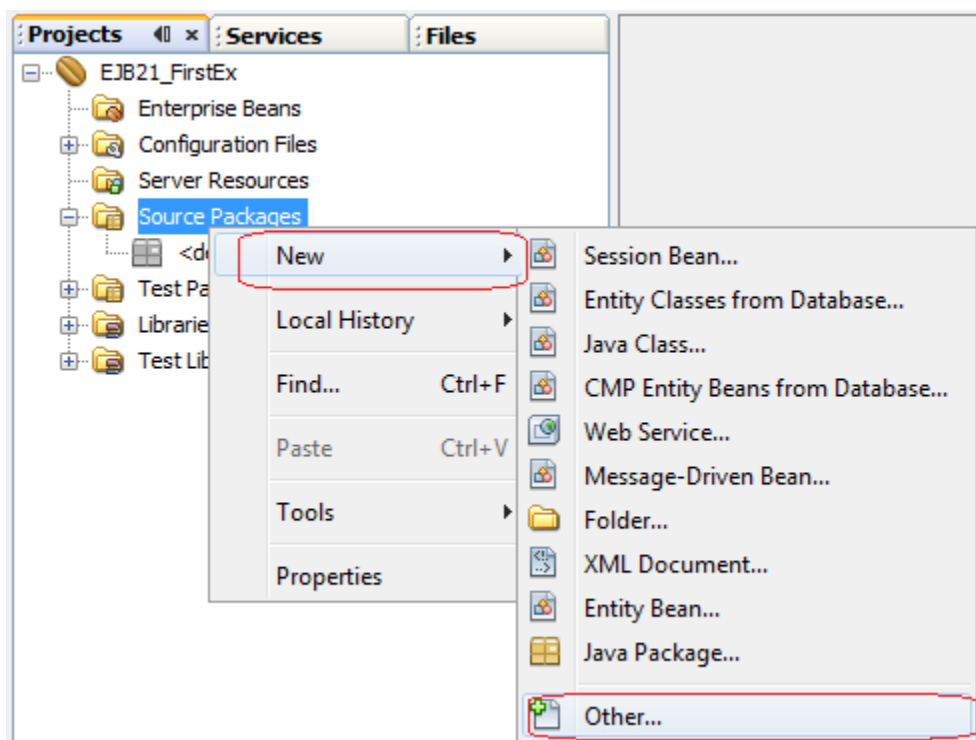
Bước 1:

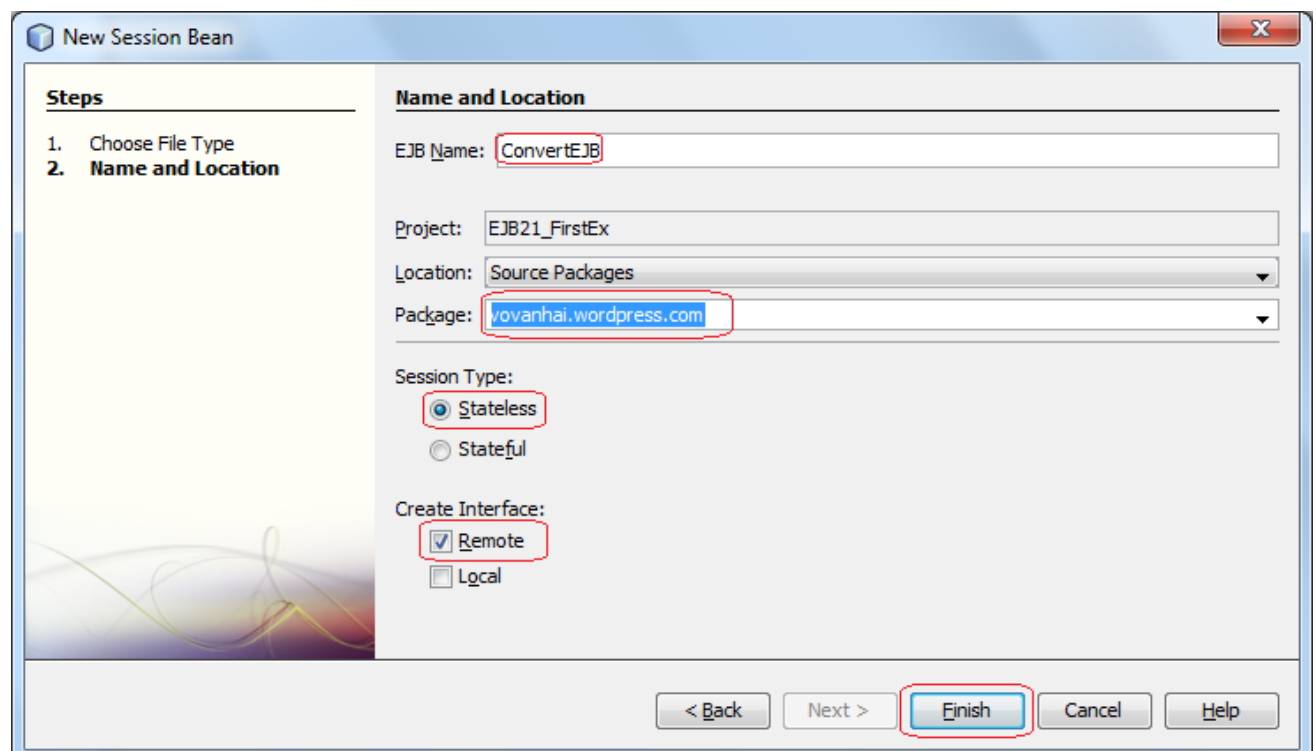
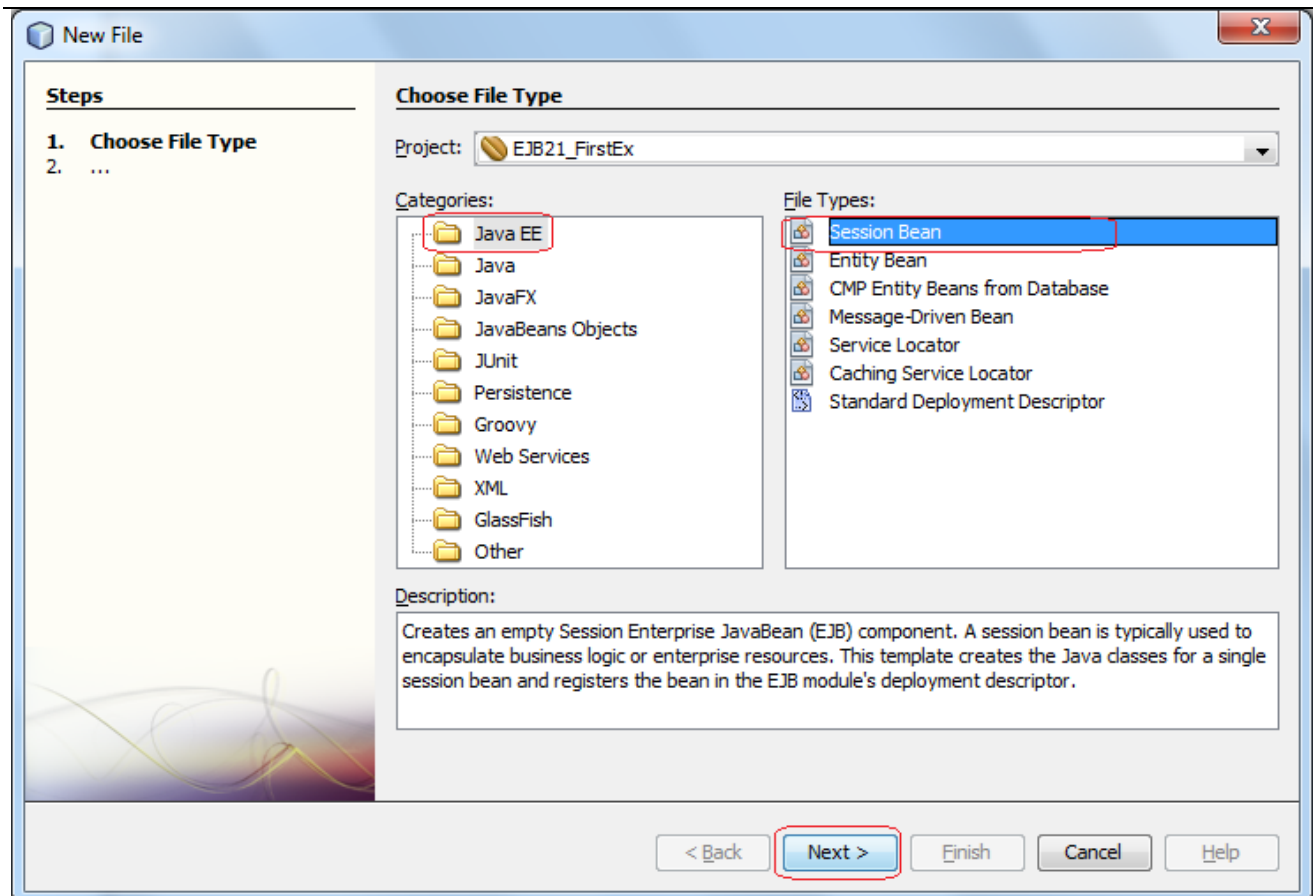
Trong NB, Tạo 1 project mới như sau:

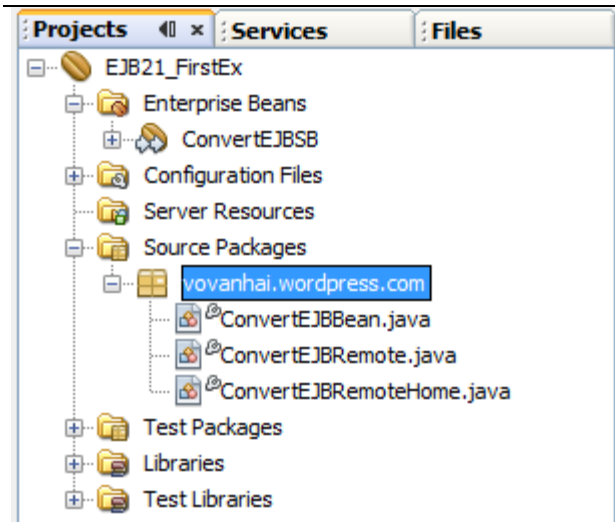




Bước 2: Thêm vào project 1 EJB 2.1 Stateless Session Bean

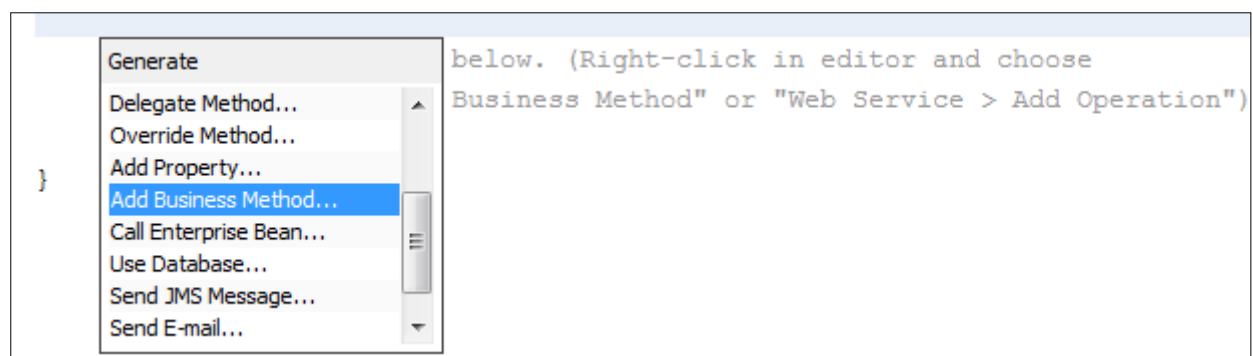
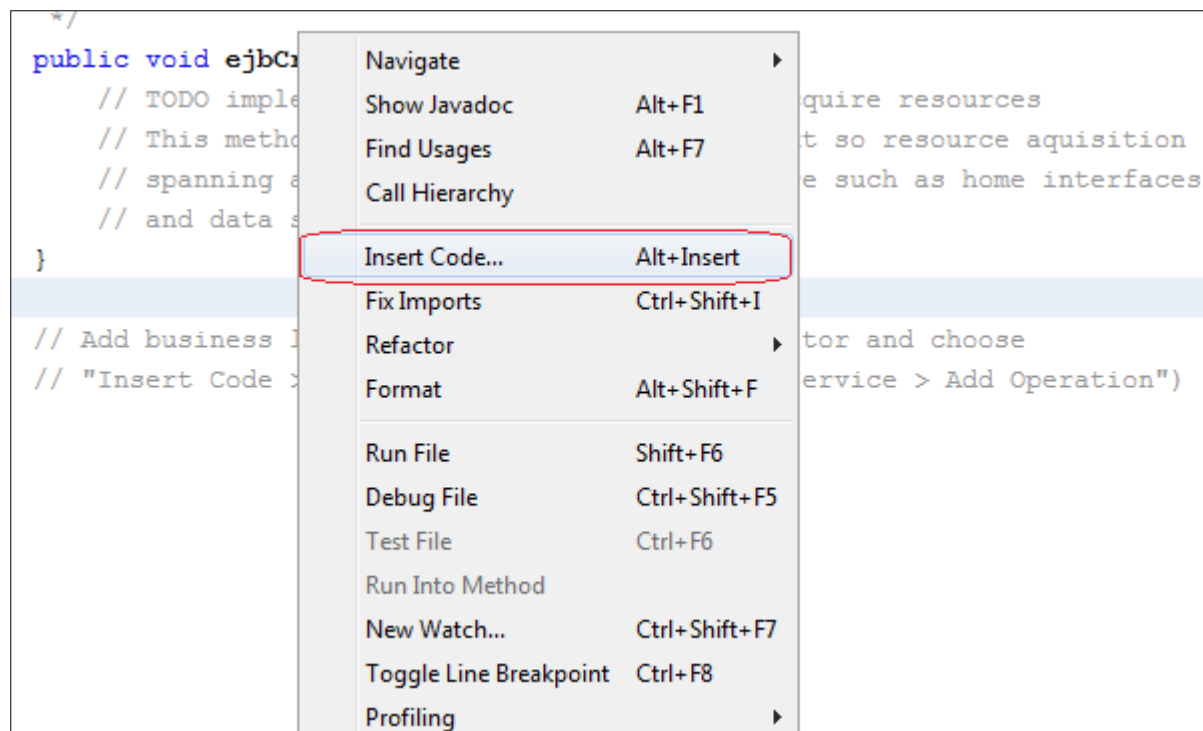


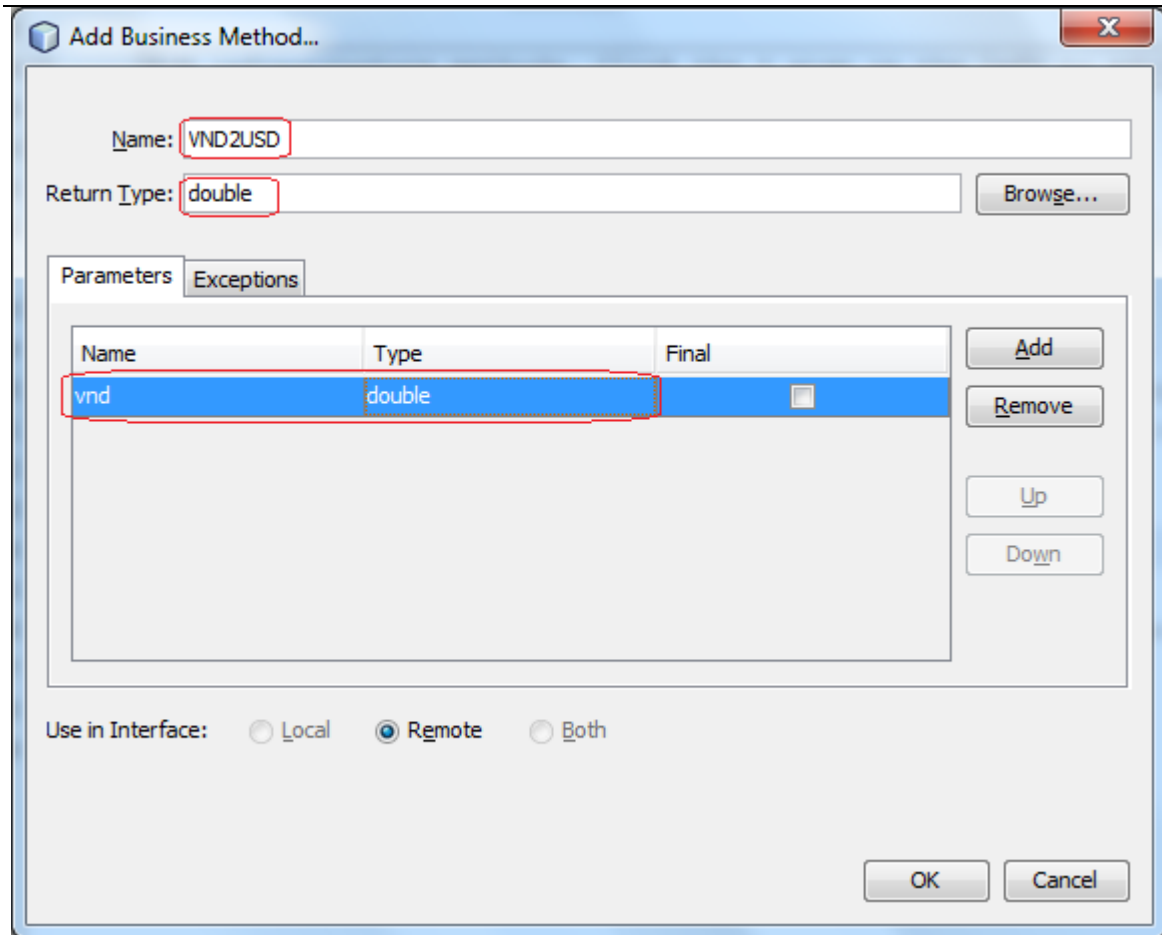




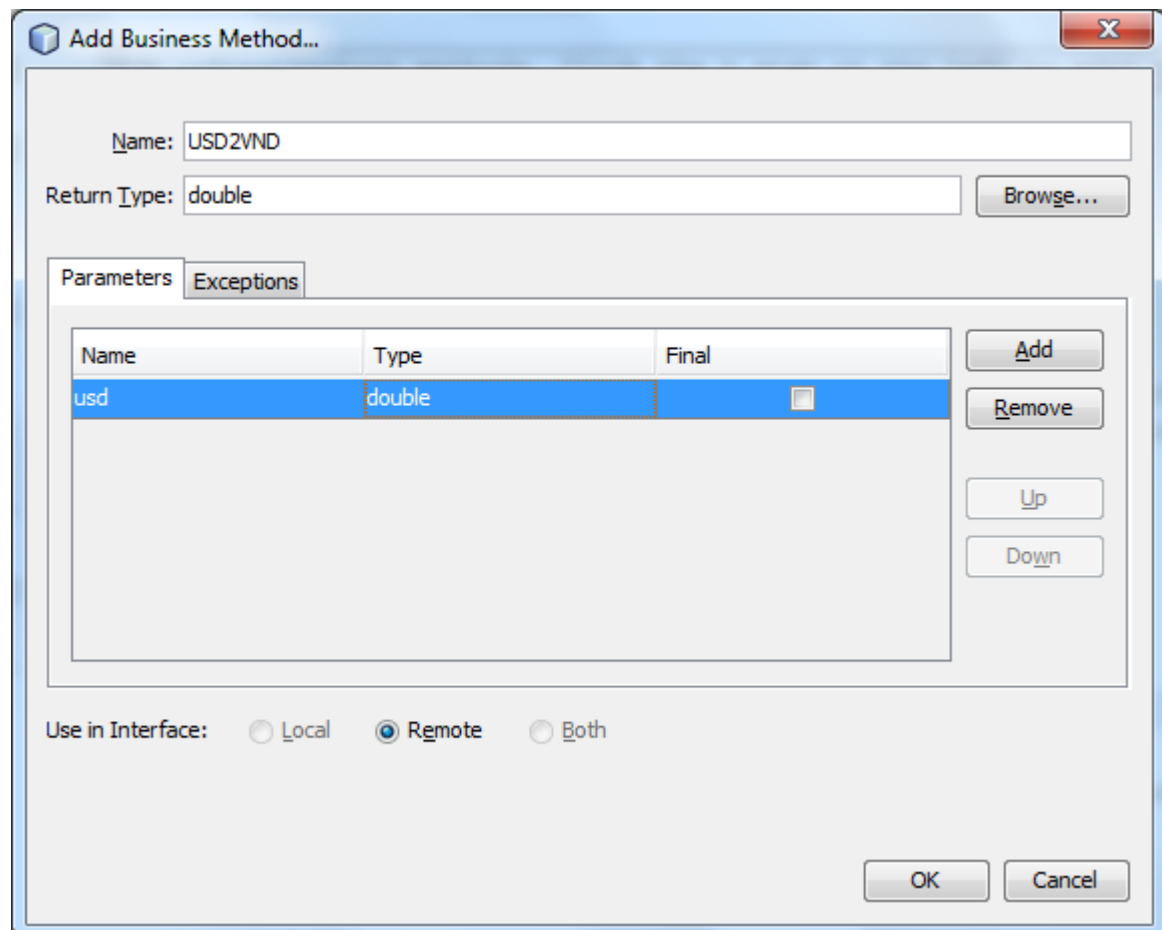
Bước 3: Thêm các business logic methods: Ở ví dụ này chúng ta thêm vào 2 phương thức VND2USD và USD2VND dùng để chuyển tiền tệ từ USD sang VND và ngược lại

Nhấn chuột phải lên cửa sổ code của lớp ConvertEJBBean.java chọn Insert Code





Hoàn toàn tương tự cho phương thức USD2VND



Sửa code NB sinh lại như hình sau

```

51 public void ejbCreate() {
52 }
53
54 private final double RATE = 18970;
55
56 public double VND2USD(double vnd) {
57     return vnd / RATE;
58 }
59
60 public double USD2VND(double usd) {
61     return usd * RATE;
62 }
63 }

```

Mở file ejb-jar.xml trong mục configuration ta được như hình

```

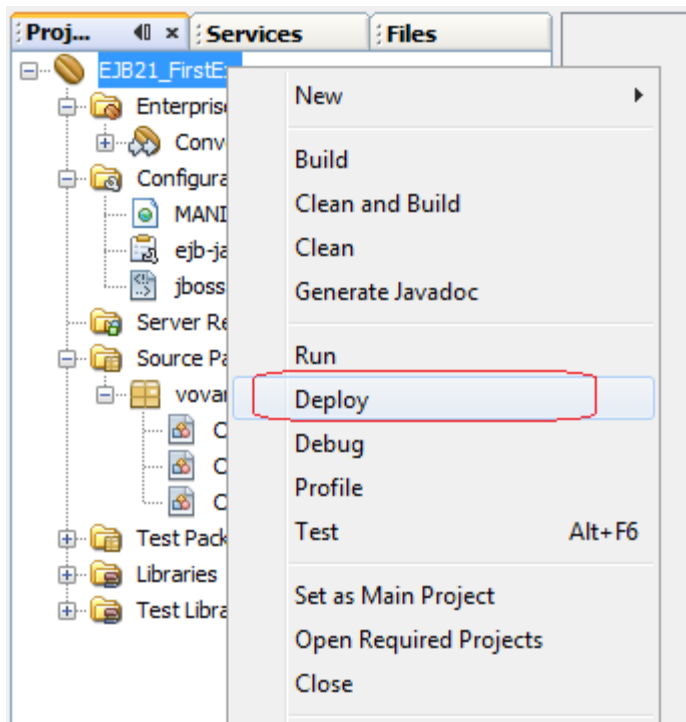
1 <?xml version="1.0" encoding="UTF-8"?>
2 <ejb-jar version="2.1" xmlns="http://java.sun.com/xml/ns/j2ee"
3   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
4   xsi:schemaLocation="http://java.sun.com/xml/ns/j2ee http://java.sun.com/
5     <enterprise-beans>
6       <session>
7         <display-name>ConvertEJBBean</display-name>
8         <ejb-name>ConvertEJBBean</ejb-name>
9         <home>vovanhai.wordpress.com.ConvertEJBRemoteHome</home>
10        <remote>vovanhai.wordpress.com.ConvertEJBRemote</remote>
11        <ejb-class>vovanhai.wordpress.com.ConvertEJBBean</ejb-class>
12        <session-type>Stateless</session-type>
13        <transaction-type>Container</transaction-type>
14      </session>
15    </enterprise-beans>
16    <assembly-descriptor>
17      <container-transaction>
18        <method>
19          <ejb-name>ConvertEJBBean</ejb-name>
20          <method-name>*</method-name>
21        </method>
22        <trans-attribute>Required</trans-attribute>
23      </container-transaction>
24    </assembly-descriptor>
25  </ejb-jar>

```

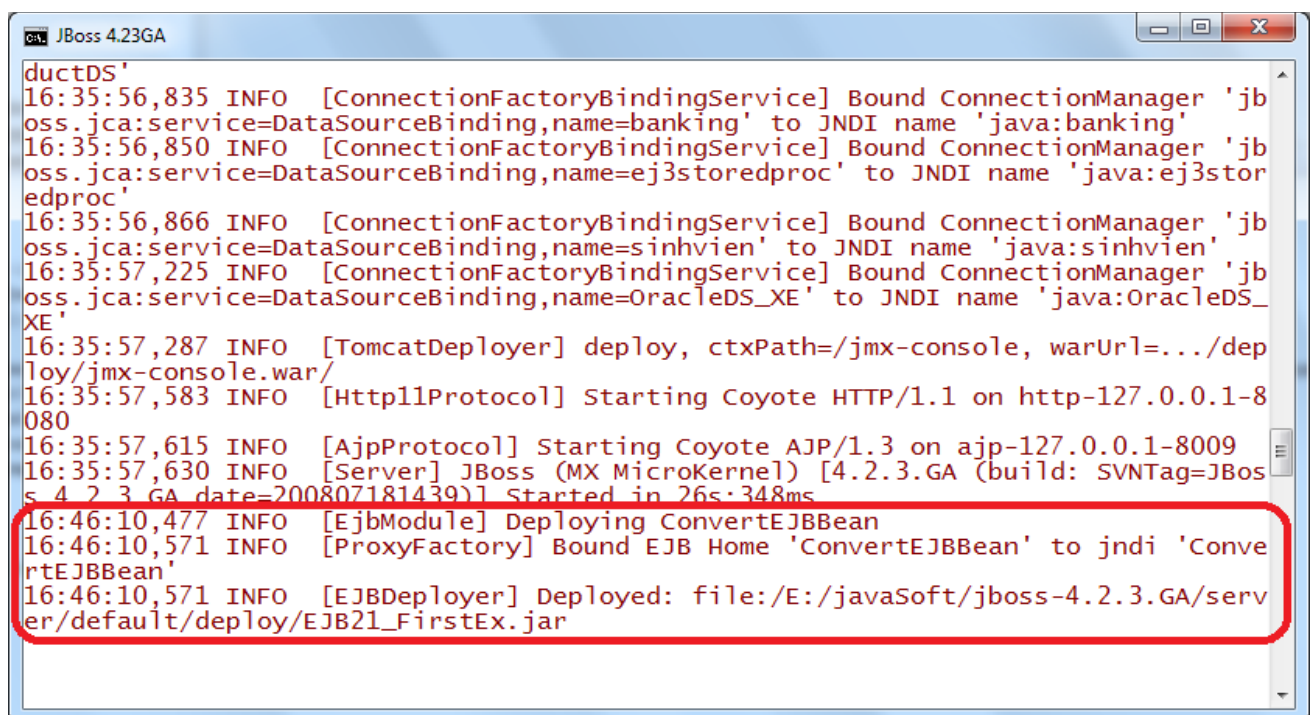
Ta thấy java sẽ tự sinh cho ta file này, tuy nhiên chúng ta cũng cần để ý 1 chút đến phần được chọn.

Bước 4 : Triển khai project trên JBoss Application Server

Nhấn phải chuột lên project, chọn deploy như hình.

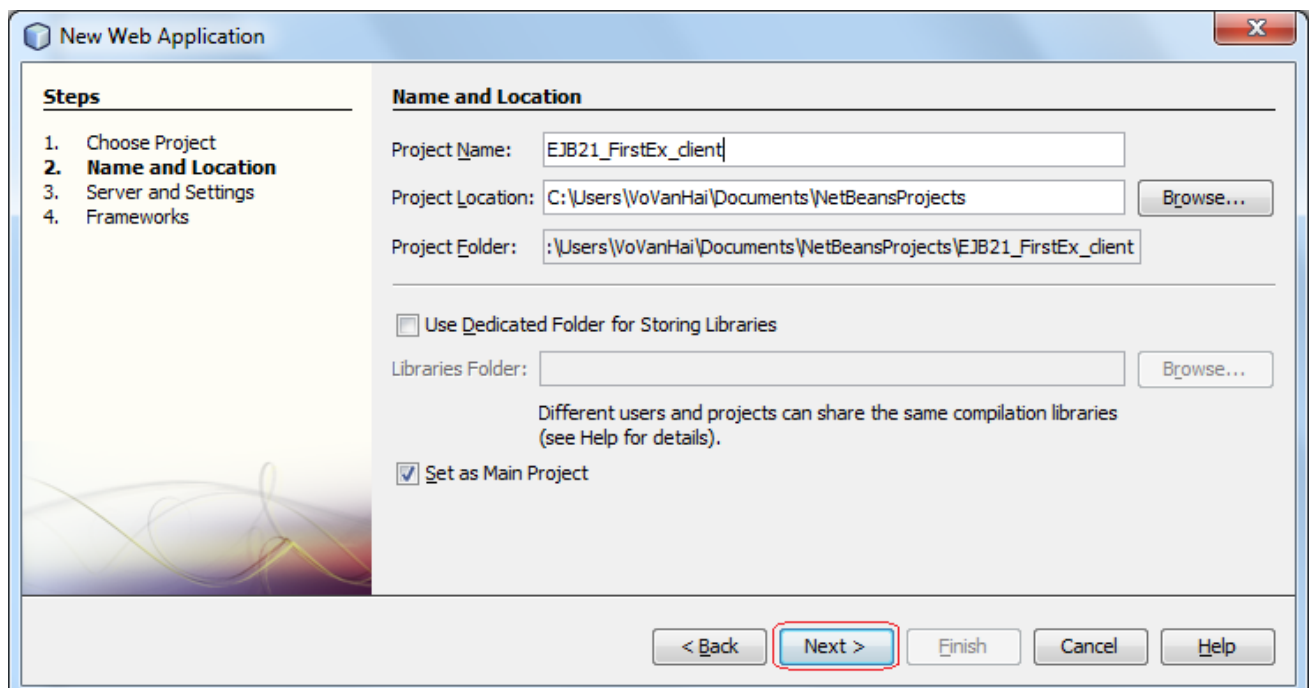
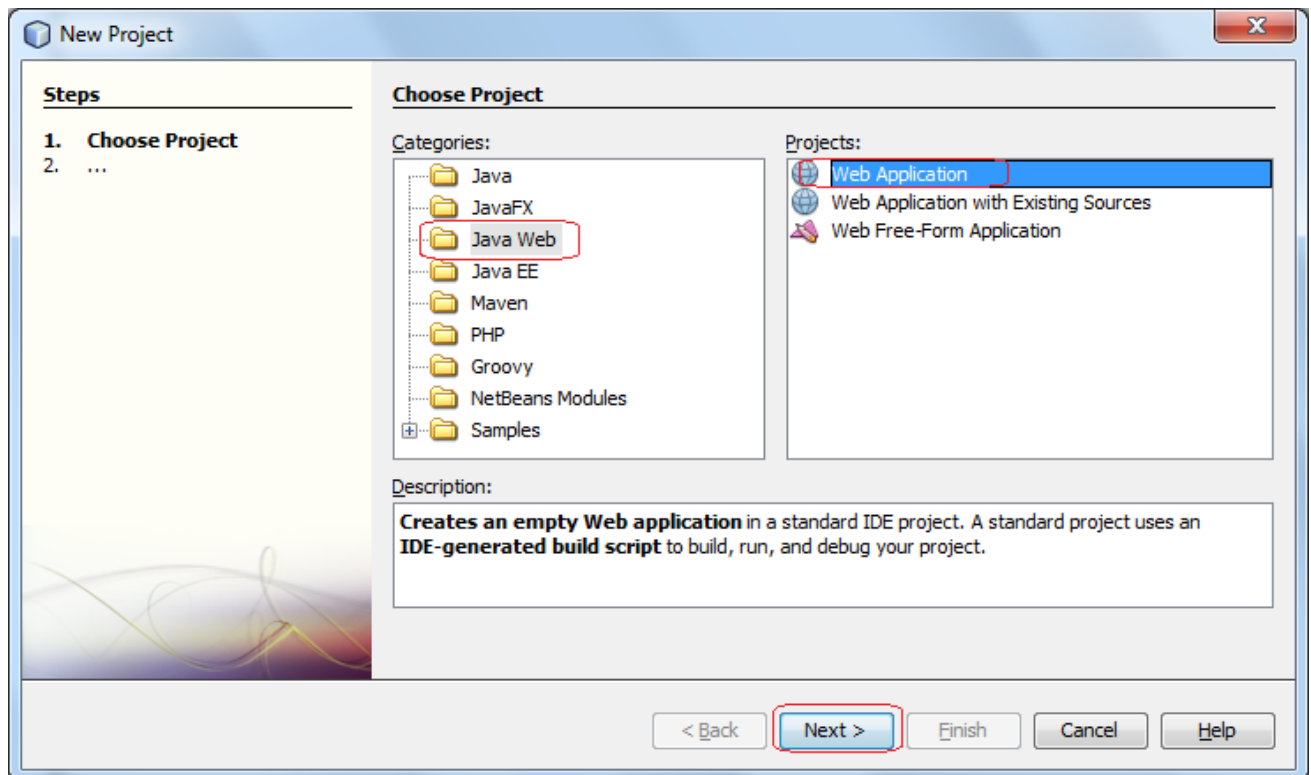


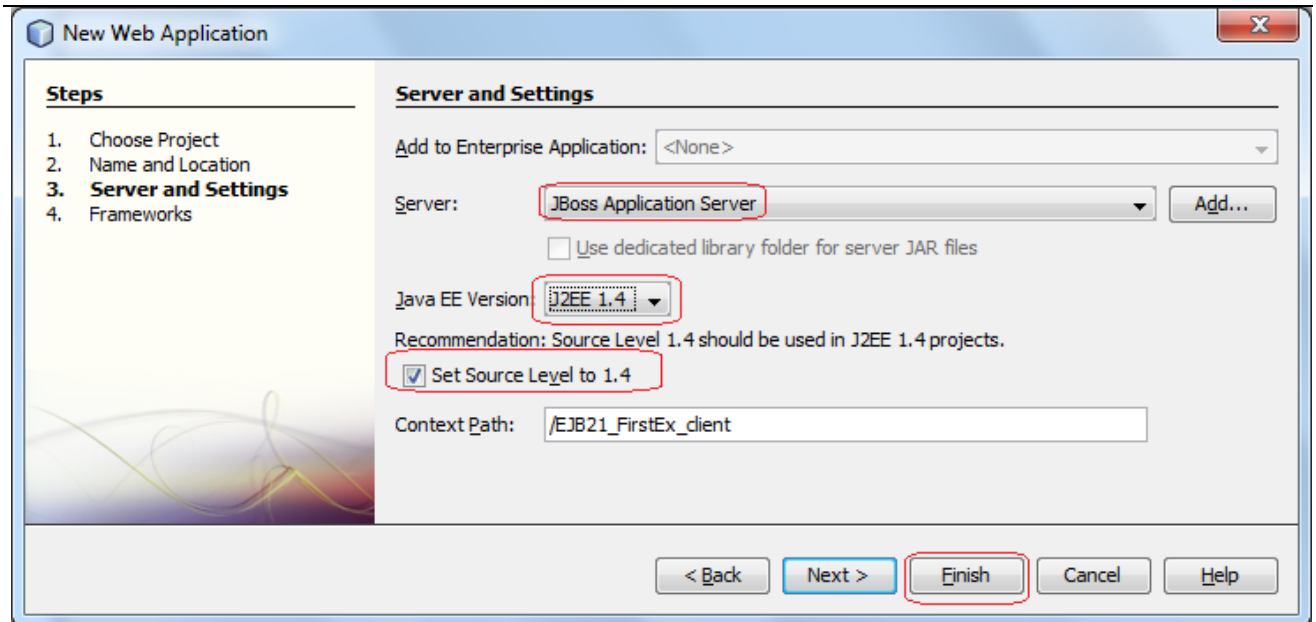
Kết quả triển khai :



Phần 2: Tạo Client

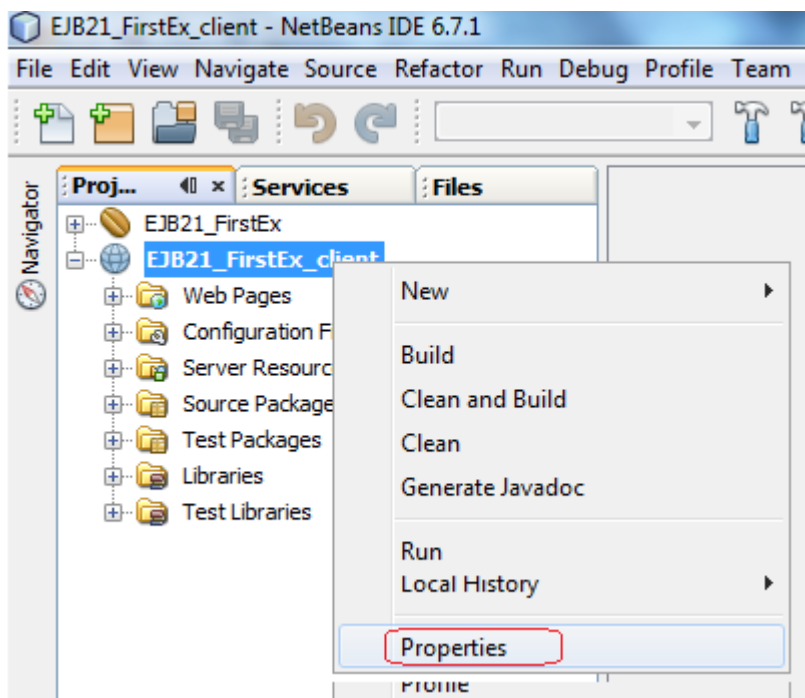
Bước 1: Tạo project mới như hình

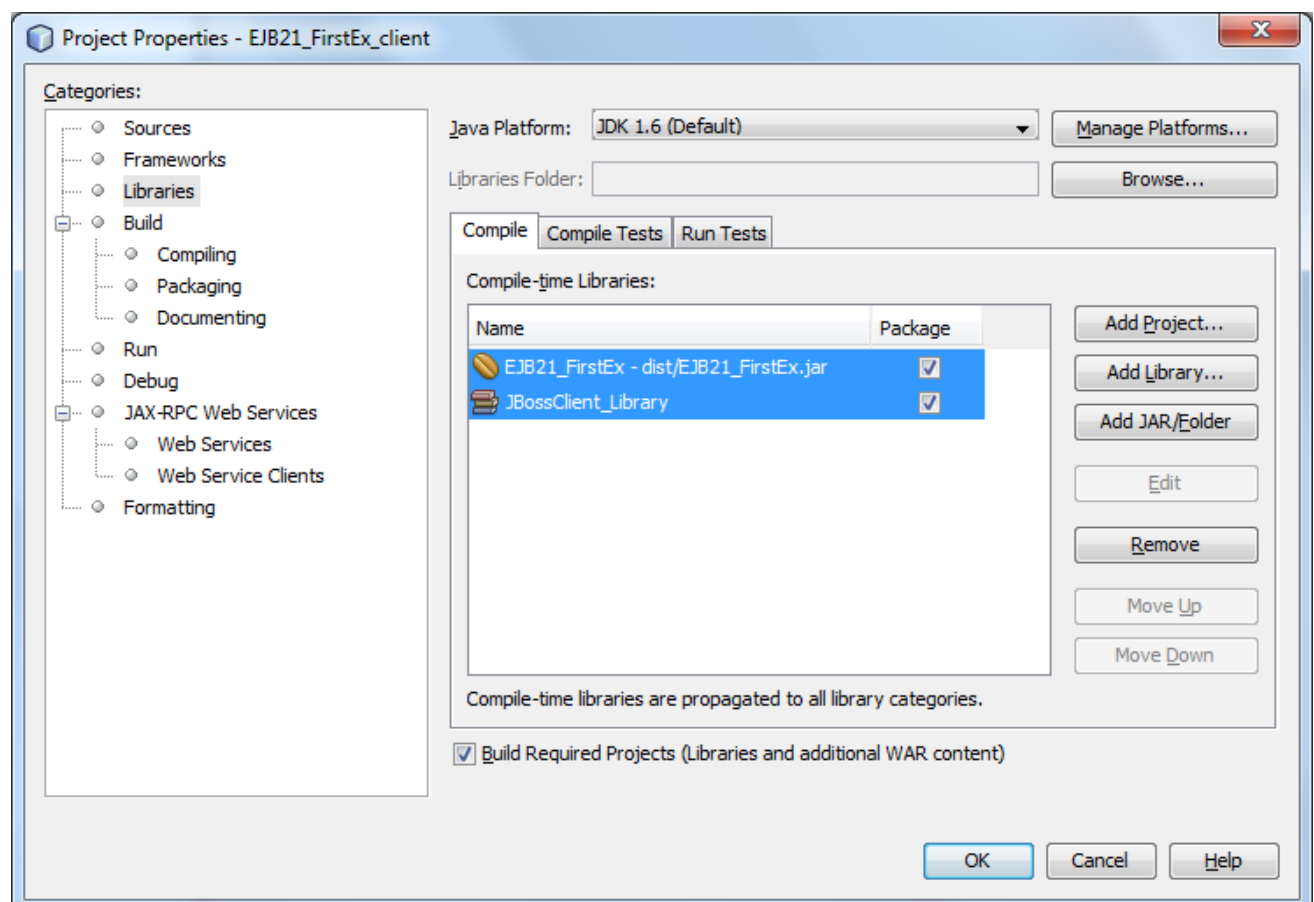
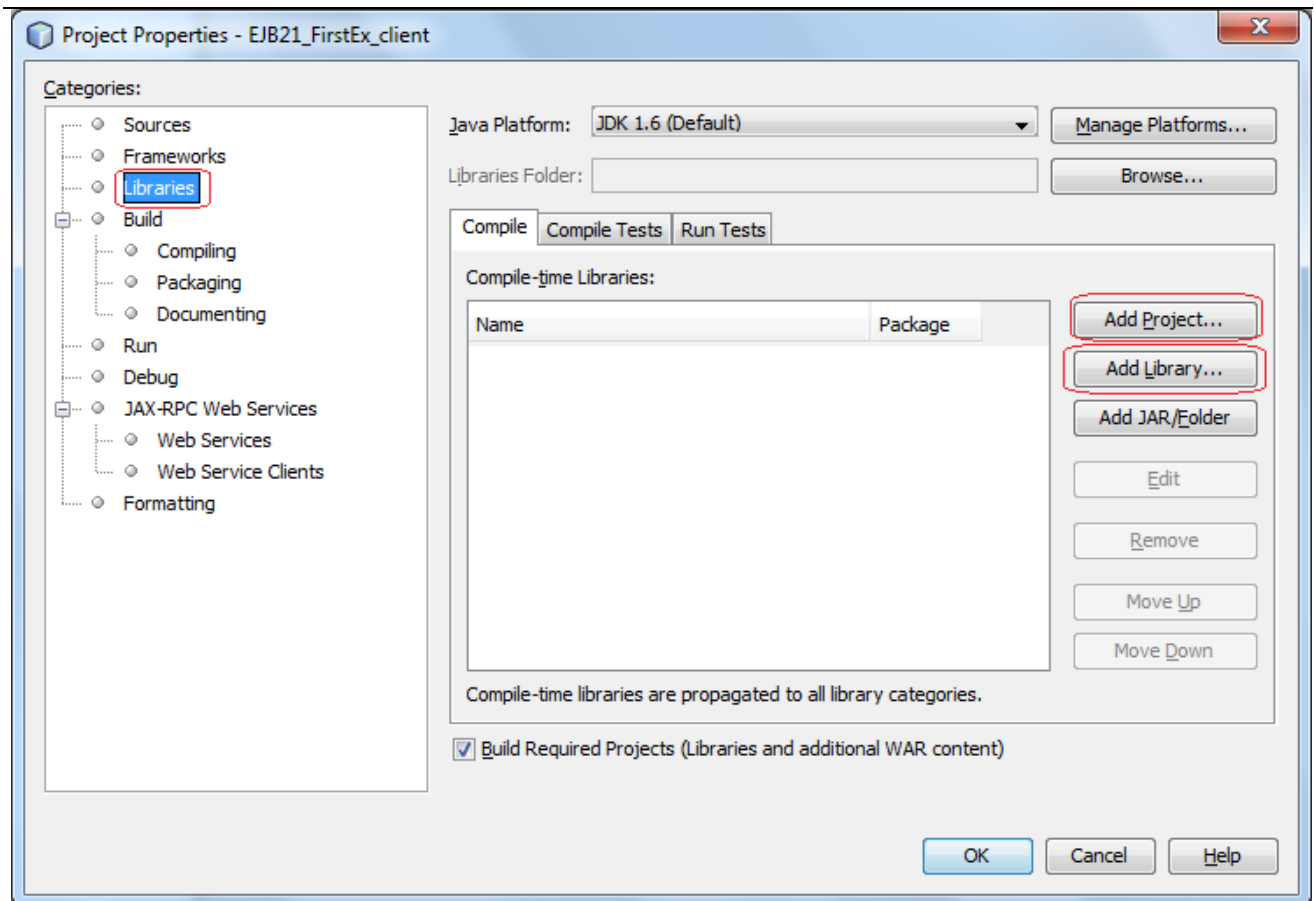




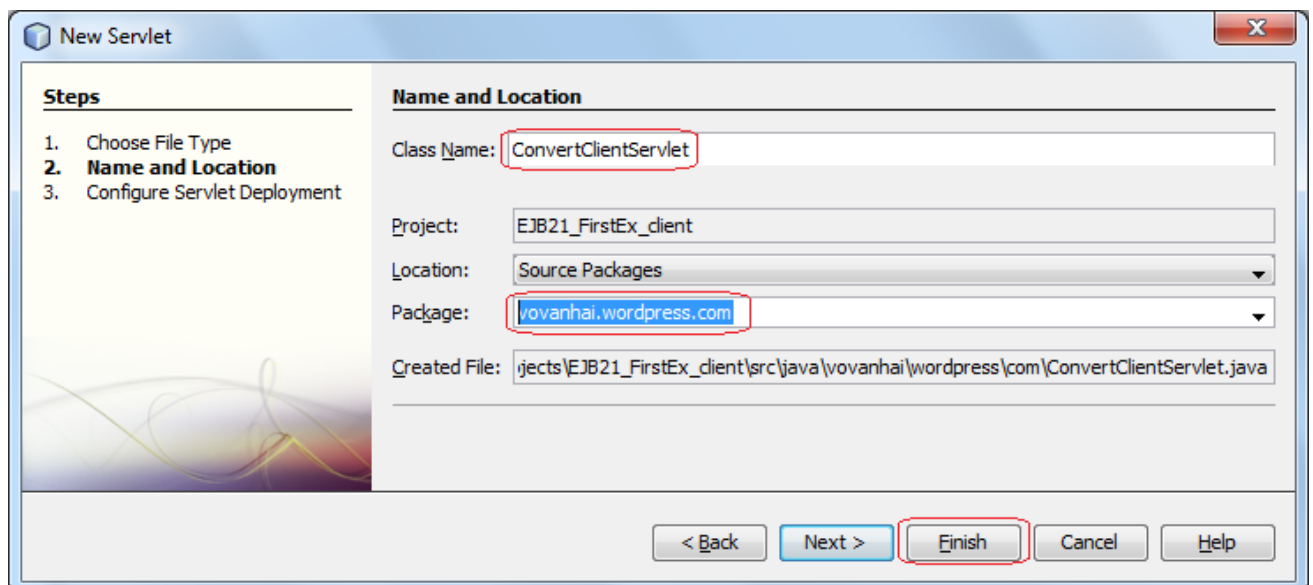
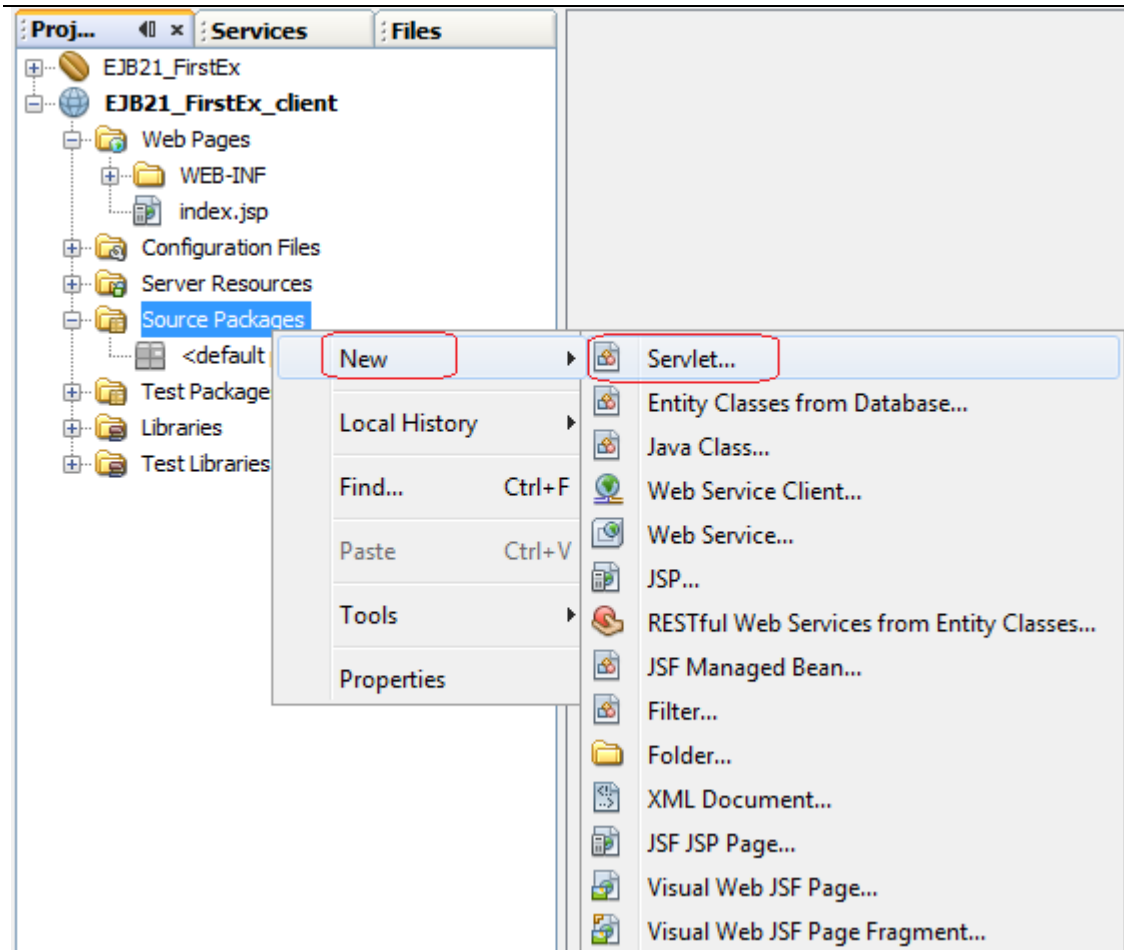
Bước 2: Tạo tham chiếu:

Nhấn chuột phải lên project, chọn properties





Bước 3: Thêm Servlet mới



Sửa code lại như sau:

```
protected void processRequest(HttpServletRequest request,
    HttpServletResponse response) throws ServletException, IOException {

    response.setContentType("text/html;charset=UTF-8");
    PrintWriter out = response.getWriter();
    try {
        System.setProperty(Context.INITIAL_CONTEXT_FACTORY,
            "org.jnp.interfaces.NamingContextFactory");
        System.setProperty(Context.PROVIDER_URL, "localhost:1099");
        InitialContext ctx=new InitialContext();
        Object obj=ctx.lookup("ConvertEJBBean");
        ConvertEJBRemoteHome home=(ConvertEJBRemoteHome)obj;
        ConvertEJBRemote convert=home.create();
        double usd=Double.parseDouble(request.getParameter("money"));
        double money=convert.USD2VND(usd);
        out.print("<h1> $" + usd + " = " + money + "vnd.</h1>");
    } catch (Exception ex) {
        out.println(ex.getMessage());
    } finally {
        out.close();
    }
}
```

Phần import sẽ là :

```
package vovanhai.wordpress.com;

import java.io.IOException;
import java.io.PrintWriter;
import javax.naming.Context;
import javax.naming.InitialContext;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
```

Bước 4 : Hiệu chỉnh trang index.jsp

```

7 <%@page contentType="text/html" pageEncoding="UTF-8"%>
8 <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
9 "http://www.w3.org/TR/html4/loose.dtd">
10
11 <html>
12 <head>
13 <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
14 <title>JSP Page</title>
15 </head>
16 <body>
17 <h1>Money Convert</h1>
18 <form action="ConvertClientServlet">
19 Enter amount of USD to convert:<input name="money"/>
20 <input type="submit" value="Convert"/>
21 </form>
22 </body>
23 </html>

```

Bước 5: Thực thi chương trình

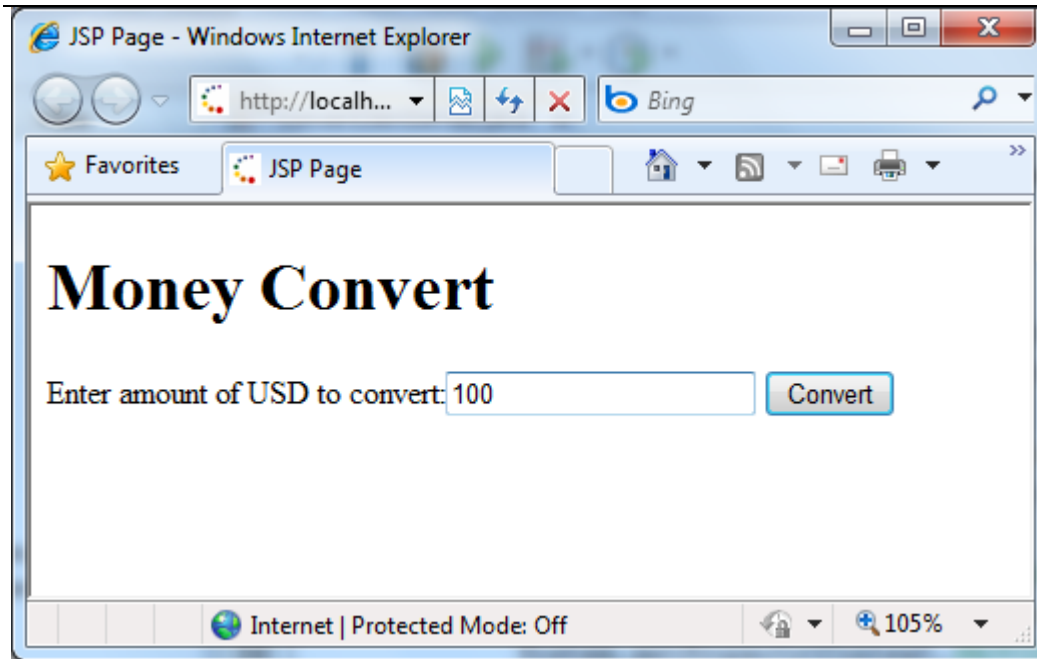
Nhấn F6 để thực thi chương trình. Kết quả triển khai trên JBoss

```

JBoss 4.2.3GA
16:35:56,866 INFO [ConnectionFactoryBindingService] Bound ConnectionManager 'jboss.jca:service=DataSourceBinding,name=sinhvien' to JNDI name 'java:sinhvien'
16:35:57,225 INFO [ConnectionFactoryBindingService] Bound ConnectionManager 'jboss.jca:service=DataSourceBinding,name=OracleDS_XE' to JNDI name 'java:OracleDS_XE'
16:35:57,287 INFO [TomcatDeployer] deploy, ctxPath=/jmx-console, warUrl=.../deploy/jmx-console.war/
16:35:57,583 INFO [Http11Protocol] Starting Coyote HTTP/1.1 on http-127.0.0.1-8080
16:35:57,615 INFO [AjpProtocol] Starting Coyote AJP/1.3 on ajp-127.0.0.1-8009
16:35:57,630 INFO [Server] JBoss (MX MicroKernel) [4.2.3.GA (build: SVNTag=JBoss_4_2_3_GA date=200807181439)] Started in 26s:348ms
16:46:10,477 INFO [EjbModule] Deploying ConvertEJBBean
16:46:10,571 INFO [ProxyFactory] Bound EJB Home 'ConvertEJBBean' to jndi 'ConvertEJBBean'
16:46:10,571 INFO [EJBDeployer] Deployed: file:/E:/javaSoft/jboss-4.2.3.GA/server/default/deploy/EJB21_FirstEx.jar
17:20:24,283 INFO [TomcatDeployer] deploy, ctxPath=/EJB21_FirstEx_client, warUrl=.../tmp/deploy/tmp4671295374034654109EJB21_FirstEx_client-exp.war/

```

Kết quả trên browser:



Nhấn nút Convert

