

# Submit Data to Back-end

## JavaBean/JavaAgent/Xpages

### Sistèm Kondisyon:

Download Domino Designer 8.5.2 Environment (DDE)

<http://www.ibm.com/developerworks/downloads/ls/dominodesigner/>

### Entrodiksyon:

Bati yon aplikasyon konplè ki soumèt yon fòm (Xpages) nan do fen a-lè l sèvi avèk yon JavaBean.

**Matéryèl:** SiteFinder Aplikasyon Demo vini ak DDE 8.5.2. Kounye a SiteFinder Demo se pa lè l sèvi avèk yon JavaBean pou soumèt a tounen nan fen-, li sèvi ak yon bati-an, trennen ak gout karakteristik.

Nou bezwen ajoute yon JavaBean pou SiteFinder Demo, Java se yon anfòm gwo ak Xpages, sa ka pwouve ke yo dwe enteresan. Pandan w ap vin abitye ak Xpages, fè kèk lekti oswa gade lesou patikilye nou an sou fas yo sèvi Java (jsf) chapant. Tanpri, so devan echantyon kòd ki kote enfòmasyon sa a enkli ak lesou patikilye a twò preliminè ...

**Limit responsablite nou:** A enfòmasyon ki nan sa ki annapre yo prezante kòm se. Sa a lesou patikilye pansé ké ou genyen konesans debaz pwogram. Tout toryèl yo baze sou yon lojisyèl sexclips / sexclips ki baze sou. Si w ta bezwen pran abitud familiarize w avèk anviwònman ou, anvan yo kontinye lesou patikilye sa a, tanpri, sispann kounye a epi yo wè lojisyèl nou an / Frameworks paj wèb ...

### SiteFinder Demo Enfòmasyon

Nan pwen sa a nou sipoze domino Designer 8.5.2 ap telechaje / enstale e li te yon kopi Demo SiteFinder te Retrieved, ak pran tès la. Pran kèk tan yo konprann IBM (bati-nan trennen ak gout) pwodwi kòd la nan aplikasyon sa a. Kòd yo bay anba a, ak domèn ki entere yo te make ou pou konfò ou.

\*Kòd yo dwe konvèti nan travay ak yon JavaBean ...

```
<?xml version="1.0" encoding="UTF-8"?>
<xp:view xmlns:xp="http://www.ibm.com/xsp/core">
```

```
<xp:this.data>
```

```
<xp:dominoDocument var="document1" formName="Site"></xp:dominoDocument>
```

```
</xp:this.data>
```

```
<xp:table>
<xp:tr>
<xp:td>
<xp:label value="Site name:" id="siteName_Label1"
for="siteName1">
</xp:label>
</xp:td>
<xp:td>
<xp:inputText value="#{document1.SiteName}"
id="siteName1">
```

```
</xp:inputText>
</xp:td>
</xp:tr>
<xp:tr>
<xp:td>
<xp:label value="Site number:" id="siteNumber_Label1"
for="siteNumber1">
</xp:label>
</xp:td>
<xp:td>
<xp:inputText value="#{document1.SiteNumber}"
id="siteNumber1">
</xp:inputText>
</xp:td>
</xp:tr>
<xp:tr>
<xp:td>
<xp:label value="Phone:" id="phone_Label1"
for="phone1">
</xp:label>
</xp:td>
<xp:td>
<xp:inputText value="#{document1.Phone}" id="phone1"></xp:inputText>
</xp:td>
</xp:tr>
<xp:tr>
<xp:td>
<xp:label value="Site type:" id="siteType_Label1"
for="siteType1">
</xp:label>
</xp:td>
<xp:td>
<xp:comboBox value="#{document1.SiteType}"
id="siteType1">
</xp:comboBox>
</xp:td>
</xp:tr>
<xp:tr>
<xp:td>
<xp:label value="Street address:"
id="streetAddress_Label1" for="streetAddress1">
</xp:label>
</xp:td>
<xp:td>
<xp:inputText value="#{document1.StreetAddress}"
id="streetAddress1">
</xp:inputText>
</xp:td>
</xp:tr>
<xp:tr>
<xp:td>
<xp:label value="City:" id="city_Label1" for="city1"></xp:label>
</xp:td>
<xp:td>
<xp:inputText value="#{document1.City}" id="city1"></xp:inputText>
</xp:td>
</xp:tr>
```

```

<xp:tr>
<xp:td>
<xp:label value="State:" id="state_Label1"
for="state1">
</xp:label>
</xp:td>
<xp:td>
<xp:inputText value="#{document1.State}" id="state1"></xp:inputText>
</xp:td>
</xp:tr>
<xp:tr>
<xp:td>
<xp:label value="Country:" id="country_Label1"
for="country1">
</xp:label>
</xp:td>
<xp:td>
<xp:inputText value="#{document1.Country}"
id="country1">
</xp:inputText>
</xp:td>
</xp:tr>
<xp:tr>
<xp:td>
<xp:label value="Amenities:" id="amenities_Label1"
for="amenities1">
</xp:label>
</xp:td>
<xp:td valign="top">
<xp:listBox value="#{document1.Amenities}"
id="amenities1" multiple="true">
<xp:selectItem itemLabel="Cafeteria"></xp:selectItem>
<xp:selectItem itemLabel="Fitness Center"></xp:selectItem>
<xp:selectItem itemLabel="Visitor Center"></xp:selectItem>
<xp:selectItem
itemLabel="Executive Briefing Center">
</xp:selectItem>
</xp:listBox>
</xp:td>
</xp:tr>
<xp:tr>
<xp:td>
<xp:label value="Hours:" id="hours_Label1"
for="hours1">
</xp:label>
</xp:td>
<xp:td>
<xp:inputText value="#{document1.Hours}" id="hours1"></xp:inputText>
</xp:td>
</xp:tr>
<xp:tr>
<xp:td>
<xp:label value="Directions:" id="directions_Label1"
for="directions1">
</xp:label>
</xp:td>
<xp:td>

```

```

<xp:inputTextarea value="#{document1.Directions}"
id="directions1">
</xp:inputTextarea>
</xp:td>
</xp:tr>
<xp:tr>
<xp:td>
<xp:label value="Search city:" id="searchCity_Label1"
for="searchCity1">
</xp:label>
</xp:td>
<xp:td>
<xp:inputText value="#{document1.SearchCity}"
id="searchCity1">
</xp:inputText>
</xp:td>
</xp:tr>
<xp:tr>
<xp:td>
<xp:label value="Search state:" id="searchState_Label1"
for="searchState1">
</xp:label>
</xp:td>
<xp:td>
<xp:inputText value="#{document1.SearchState}"
id="searchState1">
</xp:inputText>
</xp:td>
</xp:tr>
<xp:tr>
<xp:td>
<xp:label value="Search zip:" id="searchZip_Label1"
for="searchZip1">
</xp:label>
</xp:td>
<xp:td>
<xp:inputText value="#{document1.SearchZip}"
id="searchZip1">
</xp:inputText>
</xp:td>
</xp:tr>
<xp:tr>
<xp:td></xp:td>
<xp:td>
<xp:messages layout="table" style="color:red"
id="messages1">
</xp:messages>
</xp:td>
</xp:tr>
<xp:tr>
<xp:td></xp:td>
<xp:td rendered="#{javascript:document1.isEditable()}">
<xp:button value="Submit" id="button1">
<xp:eventHandler event="onclick" submit="true"
refreshMode="complete" immediate="false" save="true"
id="eventHandler1">
</xp:eventHandler>
</xp:button>

```

```
</xp:td>  
</xp:tr>  
</xp:table>  
</xp:view>
```

**TIP:** document1 reprezante datasours la w ap itilize yo soumèt, atik la tache nan sa a datasours se yon atik jaden ki lyen ki mennen nan yon fòm ak View nan fen back-aplikasyon an; lojman done yo dwe soumèt. Anfen, se non la fòm kote done se ke yo te soumèt ki nan lis nan konmansman an nan kòd la XML (Xpages), anba 'formName' mete etikèt sou ...

## Step 1:

### **Bati yon katab Sous pou Java pwogram:**

Premye etap la konvèti pi wo kòd Xpages yo kominike avèk Java se bati yon katab Sous nan kay klas Java. Ou yo pral sèvi ak yon JavaBean kòm paj datasours, tanpri swiv etap sa yo anba a konplete kreyasyon an katab Sous

1. Go to DDE's Proejct Explorer
2. Expand the project folder, where necessary
3. Right-click on 'Local' folder
4. Go to New, then Other
5. Expand Java, go to Source Folder (Figure 1)
6. Click Next, then type 'WebContent/WEB-INF/Source' in folder name
7. Click Finish

## Step 2:

### **Bati yon katab pake pou Java pwogram:**

Dezyèm etap nan konvèti pi wo kòd Xpages yo kominike avèk Java se bati yon katab pake nan kay klas Java. Ou yo pral sèvi ak yon JavaBean kòm paj datasours, tanpri swiv etap sa yo anba a konplete kreyasyon an katab pake

1. Go to DDE's Source folder newly created
2. Right-click on 'WebContent/WEB-INF/Source' folder
3. Go to New, then Other
4. Expand Java, go to Package folder (Figure 2)
5. Click Next, then type 'com.dokoll.solutions.inc.javabeans' in name
6. Click Finish

## Step 3:

### **Bati yon klas Java:**

Etap la twazyèm konvèti pi wo kòd Xpages yo kominike avèk Java se bati yon katab pake nan kay klas Java. Ou yo pral sèvi ak yon JavaBean kòm paj datasours, tanpri swiv etap sa yo anba a konplete kreyasyon an Gwoup

1. Go to DDE's Package folder newly created

2. Right-click on 'com.dokoll.solutions.inc.javabeans' package
3. Go to New, then Other
4. Expand Java, go to Classes
5. Click Next, then type 'SiteFinderBean' in name (Figure 3)
6. Click Finish

\*Kopyé epi kole anba a kòd nan plas la nan kòd la ki jenere nan SiteFinderBean.java klas ...

```
package com.dokoll.solutions.inc.javabeans;

/**
 * Created: 2011.07.09.10.16.PM
 * SiteFinderBean class to submit to Site form
 */

import javax.faces.context.FacesContext;
import lotus.domino.NotesException;
import lotus.domino.local.Database;
import lotus.domino.local.Document;

/**
 * @author Dököll Solutions, Inc.
 * @version 2011.07.09.10.16.PM
 */
public class SiteFinderBean {

    // declare variables
    private String SiteName;
    private String SiteNumber;
    private String Phone;
    private String SiteType;
    private String StreetAddress;
    private String City;
    private String State;
    private String Country;
    private String Amenities;
    private String Hours;
    private String Directions;
    private String SearchCity;
    private String SearchState;
    private String SearchZip;

    /**
     * @return the siteName
     */
    public String getSiteName() {
        return SiteName;
    }

    /**
     * @param siteName
     * the siteName to set
     */
    public void setSiteName(String siteName) {
        SiteName = siteName;
    }
}
```

```
}

/**
 * @return the siteNumber
 */
public String getSiteNumber() {
    return SiteNumber;
}

/**
 * @param siteNumber
 * the siteNumber to set
 */
public void setSiteNumber(String siteNumber) {
    SiteNumber = siteNumber;
}

/**
 * @return the phone
 */
public String getPhone() {
    return Phone;
}

/**
 * @param phone
 * the phone to set
 */
public void setPhone(String phone) {
    Phone = phone;
}

/**
 * @return the siteType
 */
public String getSiteType() {
    return SiteType;
}

/**
 * @param siteType
 * the siteType to set
 */
public void setSiteType(String siteType) {
    SiteType = siteType;
}

/**
 * @return the streetAddress
 */
public String getStreetAddress() {
    return StreetAddress;
}

/**
 * @param streetAddress
 * the streetAddress to set
 */
```

```
public void setStreetAddress(String streetAddress) {
    StreetAddress = streetAddress;
}

/**
 * @return the city
 */
public String getCity() {
    return City;
}

/**
 * @param city
 * the city to set
 */
public void setCity(String city) {
    City = city;
}

/**
 * @return the state
 */
public String getState() {
    return State;
}

/**
 * @param state
 * the state to set
 */
public void setState(String state) {
    State = state;
}

/**
 * @return the country
 */
public String getCountry() {
    return Country;
}

/**
 * @param country
 * the country to set
 */
public void setCountry(String country) {
    Country = country;
}

/**
 * @return the amenities
 */
public String getAmenities() {
    return Amenities;
}

/**
 * @param amenities
```



```
* the amenities to set
*/
public void setAmenities(String amenities) {
Amenities = amenities;
}

/**
 * @return the hours
 */
public String getHours() {
return Hours;
}

/**
 * @param hours
 * the hours to set
 */
public void setHours(String hours) {
Hours = hours;
}

/**
 * @return the directions
 */
public String getDirections() {
return Directions;
}

/**
 * @param directions
 * the directions to set
 */
public void setDirections(String directions) {
Directions = directions;
}

/**
 * @return the searchCity
 */
public String getSearchCity() {
return SearchCity;
}

/**
 * @param searchCity
 * the searchCity to set
 */
public void setSearchCity(String searchCity) {
SearchCity = searchCity;
}

/**
 * @return the searchState
 */
public String getSearchState() {
return SearchState;
}
```

```

/**
 * @param searchState
 * the searchState to set
 */
public void setSearchState(String searchState) {
    SearchState = searchState;
}

/**
 * @return the searchZip
 */
public String getSearchZip() {
    return SearchZip;
}

/**
 * @param searchZip
 * the searchZip to set
 */
public void setSearchZip(String searchZip) {
    SearchZip = searchZip;
}

public void submitEntry() {

    // let's add a try catch here
    System.out.println("Entering Try catch Block...");

    try {

        // get the current database being used
        Database database = (Database) FacesContext.getCurrentInstance()
            .getApplication().getVariableResolver().resolveVariable(
                FacesContext.getCurrentInstance(), "database");
        System.out.println("Database obtained.." + database);

        // instantiate the document create call
        Document submitDocument = (Document) database.createDocument();
        System.out.println("Document submit initialized...");
        // submit using Instructions form
        submitDocument.appendItemValue("form", "Site");
        // using appendItemValue to insert in the fields needed
        // notice we are referencing the field on the xpage, and the
        // JavaBean variables
        submitDocument.appendItemValue("siteName", SiteName);
        submitDocument.appendItemValue("siteNumber", SiteNumber);
        submitDocument.appendItemValue("phone", Phone);
        submitDocument.appendItemValue("siteType", SiteType);
        submitDocument.appendItemValue("streetAddress", StreetAddress);
        submitDocument.appendItemValue("city", City);
        submitDocument.appendItemValue("state", State);
        submitDocument.appendItemValue("country", Country);
        submitDocument.appendItemValue("amenities", Amenities);
        submitDocument.appendItemValue("hours", Hours);
        submitDocument.appendItemValue("directions", Directions);
        submitDocument.appendItemValue("searchCity", SearchCity);
        submitDocument.appendItemValue("searchState", SearchState);
        submitDocument.appendItemValue("searchZip", SearchZip);
    }
}

```

```

// Run the agent after all items have been submitted to page
// database.getAgent("NewPostJavaAgent").runOnServer();
// saves the data, based on above fields to Instructions form
submitDocument.save();
submitDocument.recycle();
System.out.println("Program ended...");
// throwable initialized if there is an error, either in the field
// or the query
} catch (NotesException e) {
// print this error to the server
e.printStackTrace();
}

}

}

```

## Step 4:

### Bati yon dosye nou konte genyen fas:

Etap la katriyèm konvèti pi wo kòd Xpages yo kominike avèk Java se bati yon dosye fas-config.xml konekte Java klas ak Xpages. Ou yo pral sèvi ak yon JavaBean kòm paj datasours, tanpri swiv etap sa yo anba a konplete konfigirasyon fas kreyasyon an dosye-a. Domèn ki enterese yo te make ou pou konfò ou ...

```

<?xml version="1.0" encoding="UTF-8"?>
<faces-config>
<managed-bean>

<managed-bean-name>SiteFinderBean</managed-bean-name>

<managed-bean-class>com.dokoll.solutions.inc.javabeans.SiteFinderBean
</managed-bean-class>

<managed-bean-scope>session</managed-bean-scope>
</managed-bean>

<!--AUTOGEN-START-BUILDER: Automatically generated by IBM Lotus Domino Designer. Do
not modify.-->
<!--AUTOGEN-END-BUILDER: End of automatically generated section-->
</faces-config>

```

1. Go to DDE's WebContent folder (Figure 4)
2. Expand WebContent, then WEB-INF
3. Double-click on faces-config.xml (Empty)
4. Copy and Paste above code in
5. Save the file

## Step 5:

### SiteFinderBean ranplase document1:

Etap final la konvèti pi wo kòd Xpages yo kominike avèk Java se li modifiye kòd la Xpages a reflete SiteFinderBean, olye document1. Ou yo pral sèvi ak yon JavaBean kòm paj datasours, tanpri swiv etap sa yo anba a konplete modifikasyon an. Domèn ki enterese yo te make ou pou konfò ou ...

\*Ou ka efase anba a info, pa nesèsè ankò depi SiteFinderBean ap ranplasman an ...

```
<xp:this.data>  
<xp:dominoDocument var="document1" formName="Site"></xp:dominoDocument>  
</xp:this.data>
```

Kòmmanse chanje atik jaden pa ajoute SiteFinderBean, kòm opoze a document1, lè sa a modification non an jaden, tankou sa yo:

```
<xp:tr>  
<xp:td>  
<xp:label value="Site name:" id="siteName_Label1"  
for="siteName1">  
</xp:label>  
</xp:td>  
<xp:td>  
<xp:inputText value="#{SiteFinderBean.siteName}"  
id="siteName1">  
</xp:inputText>  
</xp:td>  
</xp:tr>
```

Kontinye modifiye atik yo jaden rete, sove epi kouri dosye a.

1. Go to the Design Tab to remove view from Source Tab
2. Right-click on the Design, you textboxes, and so on should be visible at this point
3. Choose either Preview in Notes, or Preview in Web Browser
4. Add some data to fields, check your view, or document for results

\*Ou te ekri Java kòd pou App SiteFinder Demo ...

Figure 1

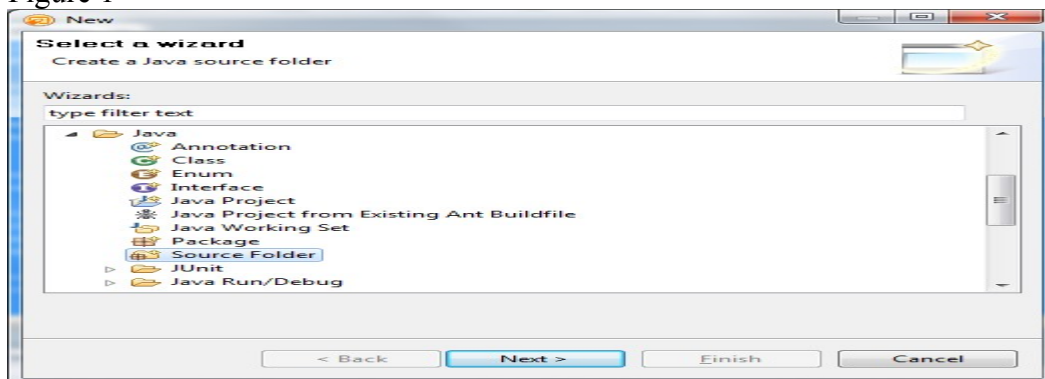


Figure 2

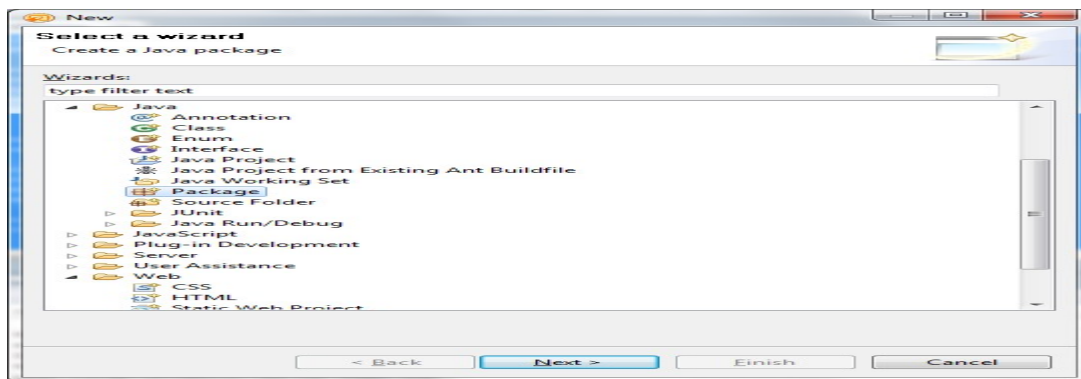


Figure 3

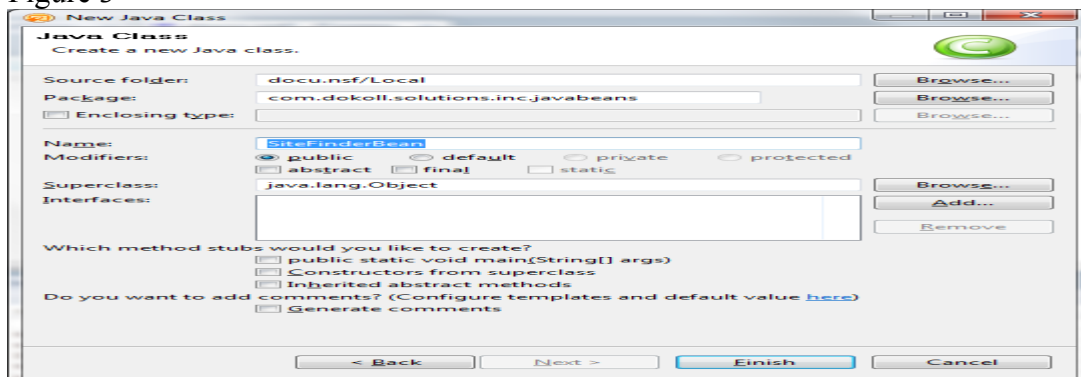
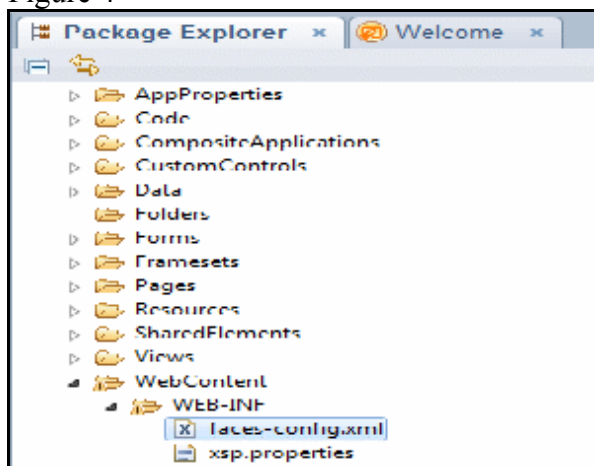


Figure 4



### Konklizyon:

Nou rekòmande ekri yon klas JavaBean separe yo kenbe varyab klas ou, Lè sa a, ekri yon pwa fè bak fè travay la jan nou koumanse, soumèt yo ak sou sa nan fen do ...

**Hint:** Sa a kapab atik dwe lye ak yon pwojè JavaAgent ki ekziste yo, soumèt nan yon dosye XML. Done ki sòti nan sa a JavaBean ka itilize yo ki Ajan bati dosye a XML. Go to lyen JavaAgent, eseye li!

Kesyon, kòmantè, tanpri poste yon mesaj tou kout sou fòm nou yo. Mèsi pou vini ...