



Introduction to the PlantsByWebSphere application



Unit objectives

After completing this unit, you should be able to:

- Describe the architecture and components of the PlantsByWebSphere application
- Explain how the application is used as a case study for WebSphere Application Server

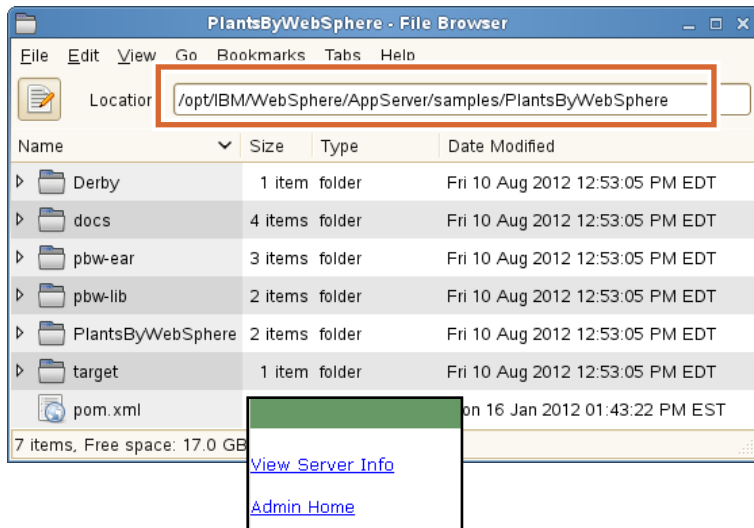
PlantsByWebSphere application



- Simple shopping cart application
 - Added server information
 - Uses Derby, but can use DB2
 - Built as an enhanced EAR

PlantsByWebSphere sample

- PlantsByWebSphere is available through the **Features > Samples Applications** that come with the WebSphere Application Server
 - Can be found in `<was_root>\samples\PlantsByWebSphere`
 - Additional samples are available through the information center
- The version of PlantsByWebSphere used in this course is altered slightly
 - To make the PlantsByWebSphere application more useful for educational purposes, two links are added to the bottom of the **Help** page (**View Server Info** and **Admin Home**)



Home page: <http://<hostname>/PlantsByWebSphere>

PLANTS BY WEBSHERE

Your shopping cart is currently empty

Flowers

Fruits & Vegetables

Trees


Accessories

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Gardens of Summer


They all start with the right flowers...

and we've got them all




Tips


Preserve extra grass seed by keeping it dry. Tape boxes and bags closed, or seal them into plastic bags. Be sure to remove extra air from the bags. Store all seed in a cool, dry area such as a garage or basement.



Bonsai Tree
\$30.00 each




Red Delicious Strawberries
\$3.50 (50 seeds)



Tulips
\$17.00 (10 bulbs)

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Login and Registration

PLANTS BY WEBSPHERE

Flowers Fruits & Vegetables Trees Accessories

Home > Sign in

Registration

Enter the information below to set up your account without your permission. With your permission address with our trusted business partners.

Required fields are denoted with a red asterisk.

Login Information

E-mail address *

Password *

Verify Password *

Contact Information

First Name *

Last Name *

Address Line 1 *

Address Line 2 *

City *

State *

ZIP Code *

Phone (daytime) *

[Register](#)

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Home

Login or Register

If you are a returning customer and previously set up an account, please enter your e-mail address and password below.

E-mail address:

Password:

[Sign in](#)

- Log in with
 - User: `plants@plantsbywebsphere.ibm.com`
 - Password: `plants`
- Or, register as new user
 - Enter your own data

My Account

PLANTS BY WEBSPHERE

Your shopping cart

[Flowers](#)[Fruits & Vegetables](#)[Trees](#)[Accessories](#)[HOME](#) : [SHOPPING](#)[Home](#) > [Sign in](#)

Account Update

Enter the information below to update your account. This information will not be shared without your permission. With your permission we will only share your name and email address with our trusted business partners.

Required fields are denoted with a red asterisk (*).

Contact Information

First Name *	<input type="text" value="David"/>
Last Name *	<input type="text" value="Grover"/>
Address Line 1 *	<input type="text" value="123 Main Street"/>
Address Line 2 *	<input type="text" value="Apt C"/>
City *	<input type="text" value="Raleigh"/>
State *	<input type="text" value="NC"/>
ZIP Code *	<input type="text" value="27604"/>
Phone (daytime) *	<input type="text" value="919-555-1234"/>

- Click **My Account** on the bottom to see your account information
 - If you are not logged in, you are prompted to log in or register

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Shopping

- Select a tab, and then click items to view or add to cart

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[Maple](#)

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[Cabbage](#)



[Ornamental Gourd](#)



[Grapes](#)



[Onion](#)



[Pineapple](#)



[Yellow Shasta Daisy](#)



[Lily](#)

Page 1 of 1

Select an item


- When you have an item page open, you see the details and are able to **change the quantity** and **Add to cart**.

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[Home](#) > Trees

Bonsai



Tabletop Fun

Bonsais are great miniature replicas of your favorite yard tree. They can be indoors or out -- and their size makes them perfect for tabletop decoration.

Item Selection:

ITEM#	DESCRIPTION	PRICE	QUANTITY
T0003	0.5 gallon mature tree	\$30.00	<input type="text" value="1"/>

Add to cart

Shopping cart

- The shopping cart can be filled with numerous items
- Click **Checkout Now** when ready

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Shopping Cart

Here are the items you have selected. To recalculate your total after changing the quantity of an item, select the 'Recalculate' button. To remove an item from your cart, enter "0" as the quantity. Select 'Checkout Now' to begin the checkout process.

ITEM #	ITEM DESCRIPTION	PACKAGING	QUANTITY	PRICE	SUBTOTAL
F0002	Baby Breath	2 plants	<input type="text" value="2"/>	\$6.00	\$12.00
V0007	Watermelon	1 pkt. (100 seeds)	<input type="text" value="1"/>	\$2.00	\$2.00

Order Subtotal:\$14.00[Continue Shopping](#)[Recalculate](#)[Checkout Now](#)

Checking out: Billing information

Shipping Information

☒ Check here if the shipping address is the same as the billing address.

Full Name *
Address Line 1 *
Address Line 2 *
City *
State *
Zip Code *
Phone (daytime) *

- Checkout requires more information, including credit card data
- Click **Continue**

Shipping Method

Select a shipping method below. Your order total will be updated on the next page.

Shipping Method *

Credit Card *

Card Number * orderinfo:ccardnum: Credit card numbers must be entered as XXXX XXXX XXXX XXXX.

Expiration Month *

Expiration Year *

Cardholder Name *

[Continue](#)

Checking out: Submit

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Review Your Order

Review your order below and select 'Submit Order' at the bottom to place your order. You can also add more items to your order by selecting 'Continue Shopping'.

Order Information

ORDER TOTAL	SHIPPING ADDRESS	BILLING ADDRESS
\$10.99	David Grover 123 Main Street Apt. C Raleigh, NC 27604 919-555-1234	David Grover 123 Main Street Apt. C Raleigh, NC 27604 919-555-1234

- Click **Submit Order** to complete the transaction

Order Details

ITEM #	ITEM DESCRIPTION	PACKAGING	QUANTITY	PRICE	SUBTOTAL
V0002	Ornamental Gourd	1 pkt. (100 seeds)	<input type="text" value="1"/>	\$1.50	\$1.50
A0008	Gloves	3 pairs per pack	<input type="text" value="1"/>	\$4.50	\$4.50

Order Subtotal: \$6.00

Shipping, Standard Ground (3 to 6 business days) \$4.99: \$4.99

Order Total: \$10.99[Continue Shopping](#)[Submit Order](#)

Help page

HOME : SHOPPING CART : LOGIN

HELP

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Help

Plants By WebSphere provides limited help support. See the sample docs directory for documentation on the design, building, and installation of the sample. Debug mode has been tied to the JSF project stage declaration. Debug messages will be displayed when the web app's javax.faces.PROJECT_STAGE context param is set to either Development or UnitTest. A value of SystemTest or Production will turn off debug output. The current state of debugging is indicated in the check box below.

☐ Debug messages enabled

If the database becomes corrupted for some reason, the button below can be used to delete all data currently in the database and populate it with a fresh set of data. If this does not work, stop the server and repeat the prerequisite steps found in the docs directory to unzip the Derby database.

Reset database

[View Server Info](#)[Admin Home](#)

- The Help page provides an entry point to the following links:
 - View Server Info
 - Admin Home

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View Server Info page

- The **View Server Info** page shows which server is hosting the connection
 - Used for demonstrating server failover
- It also displays the **Session Data** (and time created)
 - Used for demonstrating session failover

PLANTS BY WEBSHERE

Runtime server information

Cell	Node	Process	Session Data	Session Created
was85host01Node01Cell	was85host01Node01	server1	null	null

Session Data

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HOME

Runtime server information

Cell	Node	Process	Session Data	Session Created
was85hostNode01Cell	was85host01Node01	server1	Stephanie	Fri Aug 10 15:18:56 EDT 2012

Session Data

Admin home page

PLANTS BY WEBSHERE

HOME : ADMIN HOME

[Manage BackOrders](#) - View backorder inventory, order from suppliers, add new stock to inventory.

[Supplier Configuration](#) - Configure the Supplier.



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[Admin Home](#)

Supplier Configuration

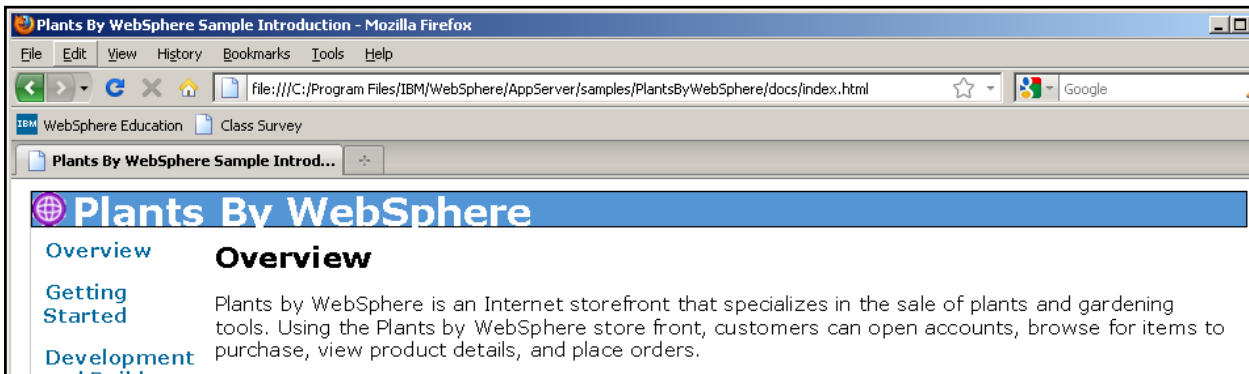
- The Admin Home page is used to demonstrate application security
- When configured, these pages require authentication

Enter the Supplier's Configuration Information

Full Name	<input type="text" value="Greenhouse By WebSphere"/>
Street Address	<input type="text" value="4205 Miami Blvd."/>
City	<input type="text" value="Durham"/>
State	<input type="text" value="NC"/>
Zip	<input type="text" value="27709"/>
Phone	<input type="text" value="919-555-1212"/>
Location URL	<input type="text" value="http://localhost:9080/OrderProcessorEJB/services/FrontGate"/>

HTML documentation for PlantsByWebSphere (1 of 2)

- For more information about PlantsByWebSphere, there are several HTML files in the sample directory that can be useful
- Overview:**
`<was_root>/samples/PlantsByWebSphere/docs/index.html`



HTML documentation for PlantsByWebSphere (2 of 2)

- TechNotes:

`<was_root>/samples/PlantsByWebSphere/docs/techNotes.html`

Plants By WebSphere Sample TechNotes - Mozilla Firefox

File Edit View History Bookmarks Tools Help

file:///C:/Program Files/IBM/WebSphere/AppServer/samples/PlantsByWebSphere/docs/techNotes.html

WebSphere Education Class Survey

Plants By WebSphere Sample TechN...

Plants By WebSphere Technotes

- Overview
- Getting started**
- Getting Started
- Development and Build
- Application Install and Management

You can create a unique e-mail address and password for the Plants by WebSphere Sample by clicking **register for your own account here** on the Login page. In addition, a default e-mail address and password exist for the Plants by WebSphere Sample that is presented in the following table:

E-mail address	plants@plantsbywebsphere.ibm.com
Password	plants



Unit summary

Having completed this unit, you should be able to:

- Describe the architecture and components of the PlantsByWebSphere application
- Explain how the application is used as a case study for WebSphere Application Server