

## IBM Software Demos

### Rational Software Delivery Platform - Design and Architect Application Changes

In this segment of the demonstration, Alex, in his Architect role, uses the visualization and modeling features of **Rational Software Architect** to better understand the architecture of the application and how to best implement the “Buy It Now” change.

<0:16 >

First, he uses the Modeling perspective to examine the Main Deployment Diagram

<0:21 >

He sees that this is a multi-tier web-based java application.

<0:26 >

It accesses a web service named AuctionLists and is using a **Cloudscape** database.

<0:33 >

Next, Alex examines the Data Access/Entity EJBs to better understand the persistent data usage in the application.

<0:41 >

He double-clicks on the Entity EJB Diagram Data note to show a diagram of the Auction application’s entity beans and the relationships between them.

Visualization helps an architect or developer understand the application quickly and increase their efficiency when making changes.

<1:00 >

RSA also provides a standard way to layout elements of the web application.

<1:06 >

The web perspective can display a web diagram that shows any relevant items of the web application, such as, JSPs and java beans and how they relate to one another.

The web diagram helps the architect and developer better understand how the web application functions.

## IBM Software Demos

### Rational Software Delivery Platform - Design and Architect Application Changes

<1:23 >

The developer can add new elements to the application using the palette associated with the web diagram. The Faces Action in the palette lets the developer control application navigation.

<1:35 >

The application file source can be opened directly from the web diagram, further improving efficiency.

<1:43 >

The web site navigation window shows the pages of the web application.

<1:52 >

The New Page function on the palette allows new pages to be dropped into the application at any needed position.

After examining and running the application, it's obvious that the Buy-It-Now button should be added to the itemdetail.jsp page. Alex now opens the page.

<2:14 >

A page can be edited with a simple double-click.

<2:21 >

The UML Visualization feature of **Rational Software Architect** allows Alex to browse through the actual code of the application to discover its structure.

<2:34 >

Alex creates Class diagrams from the code by right clicking on the itemdetail.java reference in the Package Explorer. He then selects Visualize, Add to New Diagram File then Class Diagram.

<2:51 >

RSA creates a new class diagram file and ClearCase automatically offers to add it to source control.

<3:00 >

## IBM Software Demos

### Rational Software Delivery Platform - Design and Architect Application Changes

At any time, the user can save the displayed UML diagram for future study or to share with other team members during development.

UML Visualization works like a standard web-browser, it is easy to navigate from one class to another and to zoom in to the class details as needed. RSA will create visual representations from the existing code so that the structure of the application is quickly understood.

<3:28 >

The IBM Software Delivery Platform and visual modeling help Alex reduce the complexity and accelerate his understanding of the Auction application.

<3:39 end>