

# XAL Application Architecture

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# XAL Approach

- Application Framework
- Bricks
- Web based application server

# Application Framework

- **Foundation classes for document based applications**
- **Event architecture with well defined roles**
- **Rapid development environment**
- **Provides a good and consistent user experience**



# Document Based Application Classes

- **Application Adaptor**
  - Application wide hooks
  - Application delegation
- **Document**
  - Corresponds to a file
  - Main controller for a document window
- **Document Window**
  - Main view corresponding to a document

# Document Based Application Resources

- **Menu Definition**

- optional file which defines menu and toolbar customization

- **Help**

- HTML file which will be displayed when the user selects help from the Help menu

- **Information**

- Java properties file with information about the application which is formatted and displayed when the user selects the About Box from the Help menu

# Bricks

- **Graphical User Interface construction application**
- **Stores definition of views in a XML file**
- **Runtime provides access to any view**
- **MVC compliance**
- **Ideal for Java based scripts**

# Accessing Views

- **Get a window reference to instantiate a window from a *Bricks* file**

```
dialogReference = document.getDefaultWindowReference( "HostConfigDialog", owner );
```

- **Get any view from a window reference using its tag**

```
JButton addButton = (JButton)dialogReference.getView( "AddButton" );
```



# Web Application Server

- **Best way to distribute load**
- **More dynamic user interfaces**
- **Replace Java over X11**
- **CAML for direct channel access**