

Oracle Applications Framework

May 20, 2011



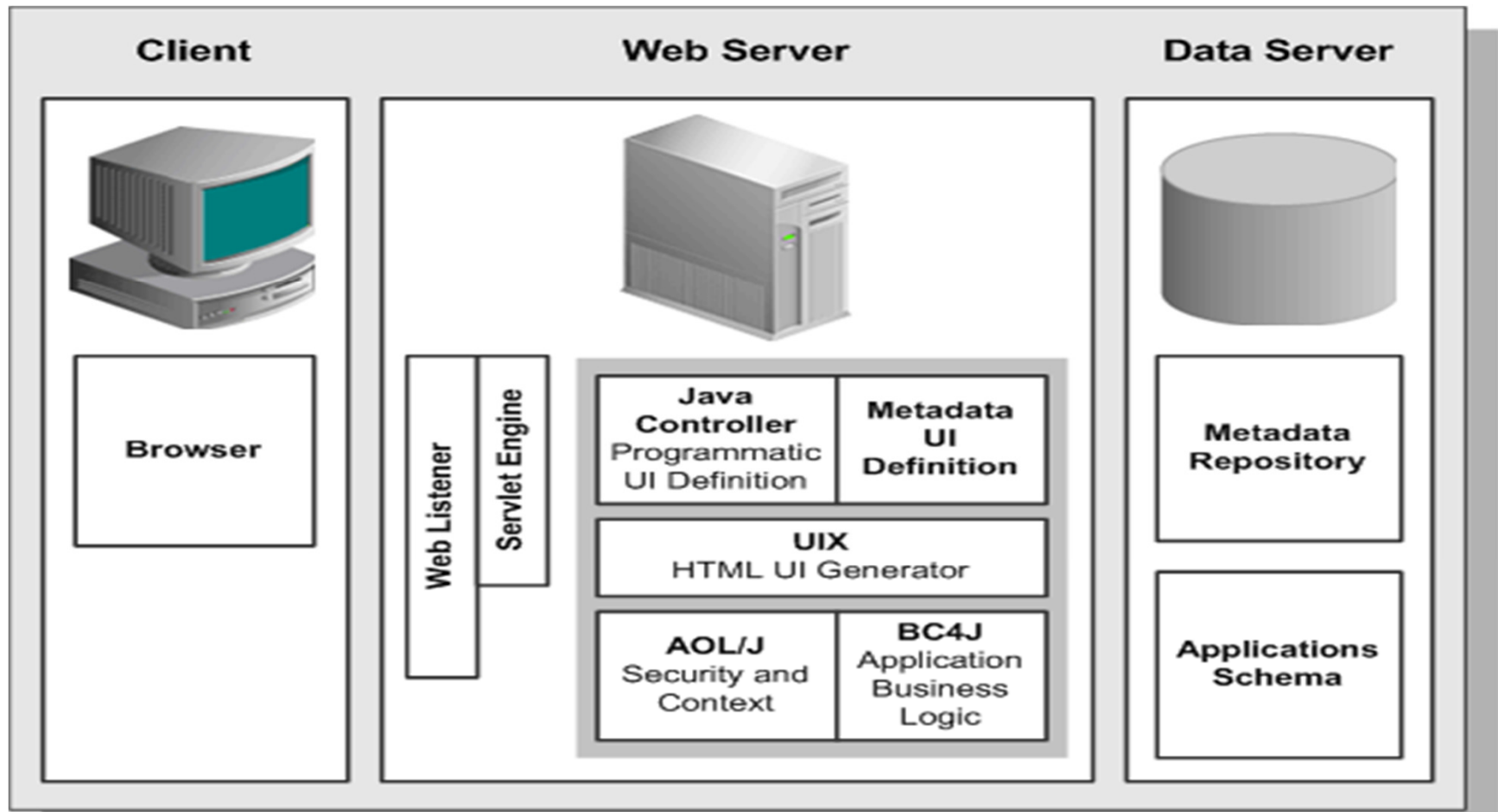


Agenda

- Oracle Applications Framework(OAF)

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OA Framework





OA Framework

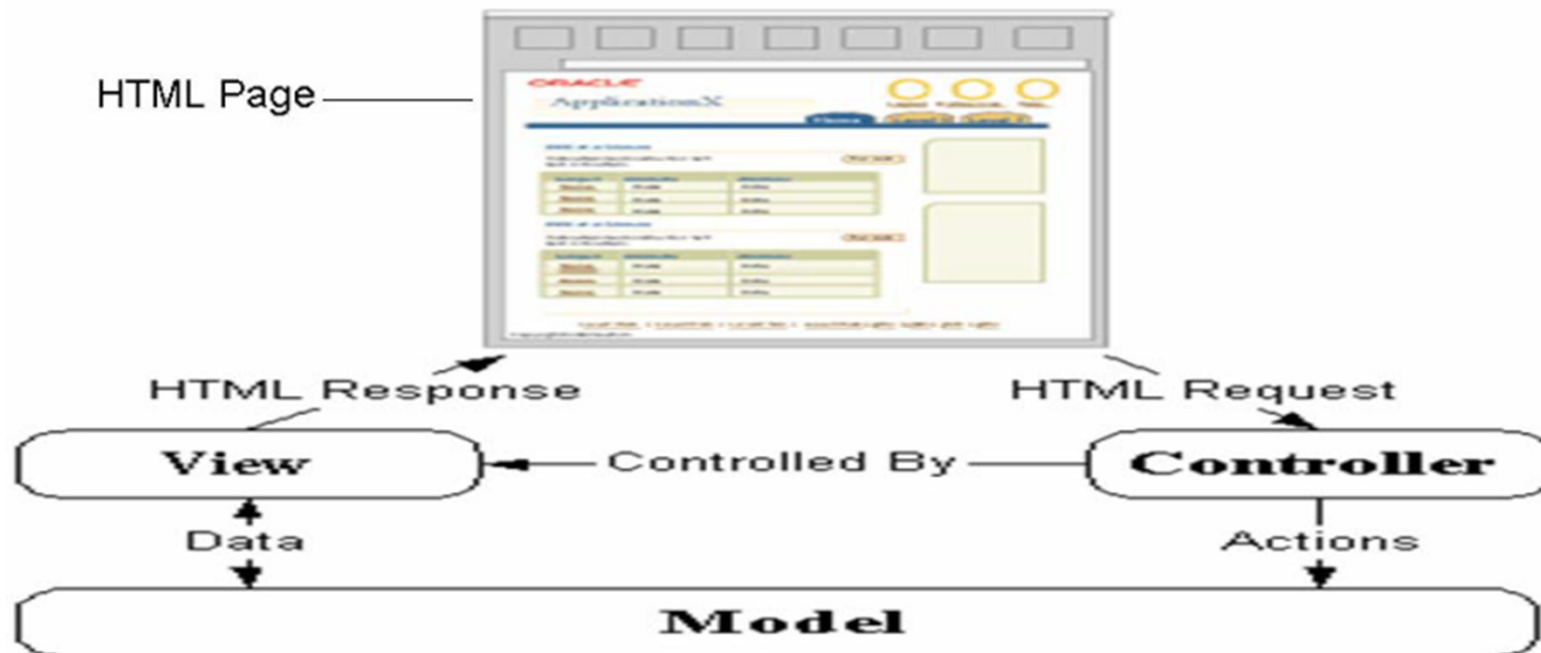
- Uses J2EE Model, View and Controller (MVC)

Architecture

- Model implements business logic
- View formats and presents data from model to the user
- Controller handles user interaction, responds to user actions & directs application flow

OA Framework

- OA Framework architecture is based on **Model-View-Controller** (MVC) design pattern





OA Framework

- Java components are on Application tier or Middle tier
- AOL/J validates user access to the page; Provide EBS features such as menus, functions, messages, profiles, flex fields and attachments ...
- The page definition (metadata UI definition) is loaded from the metadata repository on the database tier into the application tier.
- The Business components for Java (BC4J) objects that contain the application logic and access the database are instantiated.
- The Java Controller programmatically manipulates the page definition as necessary, based on dynamic UI rules.
- UIX (HTML UI Generator) interprets the page definition, creates the corresponding HTML in accordance with UI standards, and sends the page to the browser.



Oracle Applications Framework examples

- View Object

```
package xx.oracle.apps.inv.oha.xxItemMaster.server;  
import oracle.apps.fnd.framework.server.OAViewObjectImpl;
```

- Application Module

```
package xx.oracle.apps.inv.oha.xxItemMaster.server;  
import oracle.apps.fnd.framework.server.OAApplicationModuleImpl;  
public class xxItemMasterAMImpl extends OAApplicationModuleImpl  
{  
    /** This is the default constructor (do not remove) */  
    public xxItemMasterAMImpl()  
    {  
    }  
}
```



OAF

- Entity Object
 - Represents database table
 - Handles Relational ship database → Object Oriented
- View Object
 - Representation of data
- Application Module
 - Instance of Data
 - Container of view objects
 - Commits and Rollbacks
- Attribute Sets
- Data Binding



Entity Object, View Object and Application Module

- Entity Object
 - Database Table
- View Object
 - Is based on Entity Object or
 - Is based on multiple entity objects or
 - Direct SQL statement or
 - Database View
- Application Module
 - View Object



OAF Summary

- Enterprise-Grade Performance and Scalability
- Improved End User Productivity
- Highly extensible architecture
- Browser Look and Feel (BLAF terminology) for all applications
- Open industry Standards such as XML, HTML, Java, JSP, SQL and Web Services.