

Introduction to erp:

ERP : Enterprise Resource Planning

Software application to maintain enterprise resources

Enterprise – A bigger organization

Resources - People , Money, Machinery, Documents etc.

ERP Vendors

Vendor	Product Name	Cloud/OnPremise
Oracle	E-Business Suite	OnPremise
Oracle	Cloud/Fusion ERP	Cloud
Workday	Workday	Cloud
Microsoft	MS Dynamics	OnPremise
Infor	Infor	Cloud
Coupa	Coupa	Cloud
Ariba	Ariba	Cloud
SAP	S/4 Hana	Cloud/OnPremise
SAP	SAP Business One	OnPremise

Types of ERP systems :

1. On-Premise ERP

- Installed on the company's own servers. The organization manages and maintains the software.

2. Cloud ERP

- Hosted on the internet (cloud) and accessed via a web browser. The provider manages everything, making it easier to update and scale.

3. Hybrid ERP

- A mix of on-premise and cloud solutions. Some parts are kept in-house, while others are managed in the cloud.

Common ERP Modules (EBS)

1. **Financial Management (FM)**
 - a. Oracle General Ledger (GL), Oracle Accounts Payable (AP)
2. **Supply Chain Management (SCM)**
 - a. Oracle Purchasing (PO), Oracle Order Management (OM)
3. **Human Resources Management (HRM)**
 - a. Oracle Human Resources (HR), Oracle Payroll
4. **Customer Relationship Management (CRM)**
 - a. Oracle Sales (SFA), Oracle Marketing
5. **Manufacturing (MFG)**
 - a. Oracle Manufacturing
6. **Project Management (PM)**
 - a. Oracle Projects
7. **Sales and Marketing (S&M)**
 - a. Oracle Order Management (OM)
8. **Inventory Management (IM)**
 - a. Oracle Inventory (INV)

Implementation methodology of oracle ERP (SDLC) :

- **Waterfall:** Best for projects with clearly defined requirements, ensuring a structured implementation of Oracle EBS.
- **Hybrid Agile:** Offers flexibility and responsiveness, making it suitable for projects where user needs may evolve during implementation.

Types of Oracle E-Business Projects

1. **Implementation**
 - a. Establishing Oracle E-Business Suite from scratch, configuring modules to meet business needs.
2. **Upgrade**

- a. Moving from an older version of Oracle EBS to a newer version, enhancing features and functionalities.

3. Rollout

- a. Expanding Oracle EBS to new departments or geographical locations within the same organization. E.g. amazon coming from usa to india.

4. Support

- a. Ongoing assistance and maintenance for existing Oracle EBS systems, including troubleshooting and user support.

Roles in E-Business Projects

1. Technical

- a. Focuses on the technical aspects of Oracle EBS, including software installation, configuration, and integration with other systems.

2. Functional

- a. Specializes in business processes and requirements, ensuring that the Oracle EBS modules are configured to meet user needs and business objectives.

3. Techno-Functional

- a. Combines technical and functional expertise, bridging the gap between IT and business teams. Responsible for both system configuration and technical support.

4. DBA (Database Administrator)

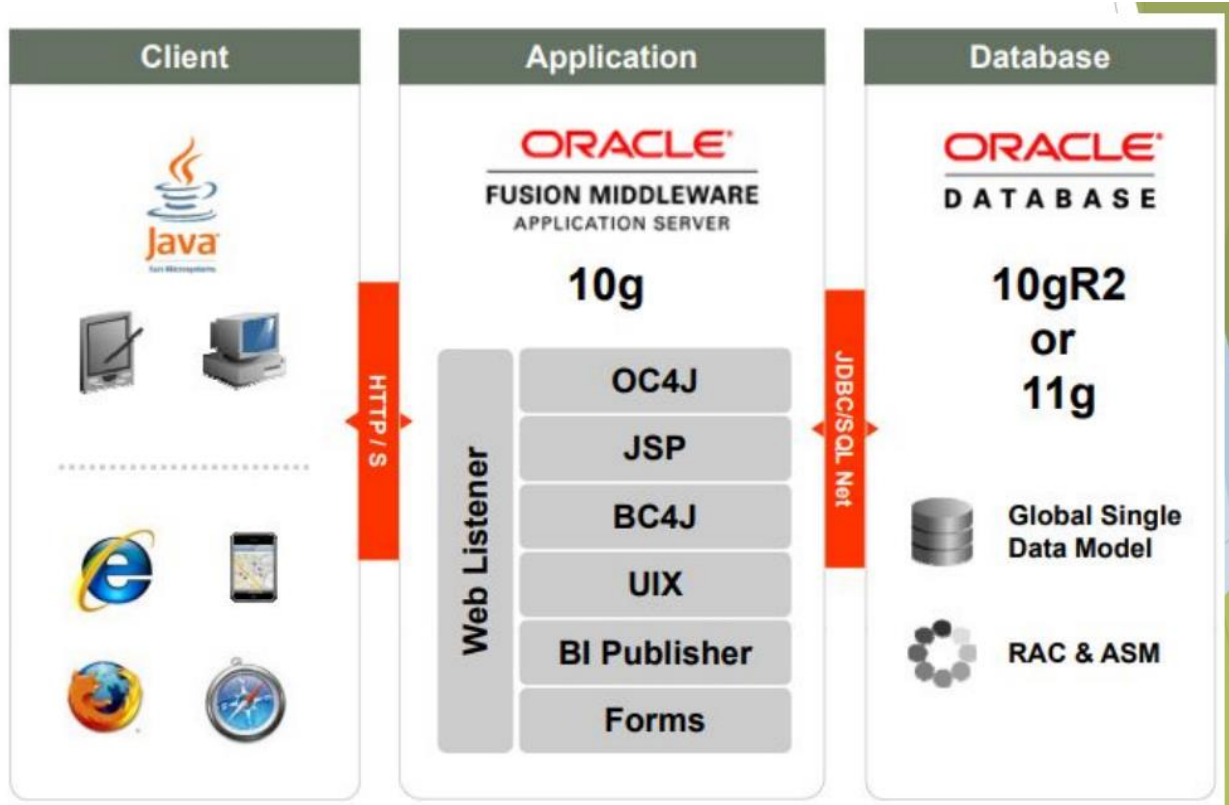
- a. Manages the Oracle database, ensuring data integrity, performance, and security. Responsible for backups, recovery, and database tuning.

EBS tools :

Component Type	Tool	Programming Language	Purpose
Reports (RDF)	Oracle Report Builder	SQL/PLSQL	Create business reports (e.g., sales reports)
Reports (XML)	Oracle Template Builder for Word	SQL/PLSQL/XML	Create business reports (e.g., invoices)
Interfaces	SQL Developer / TOAD / SOAP UI	SQL/PLSQL / SQLLoader	Connect with other systems (e.g., share data with CRM, ERP, or accounting software)
Conversions	SQL Developer / TOAD	SQL/PLSQL	Upload data to the system (e.g., adding customer info)
Extensions	Oracle Form Developer / JDeveloper	SQL/PLSQL/Java	Add new features to the software (e.g., new fields in forms)
Workflow	Oracle Workflow Builder		Manage approval processes (e.g., getting manager approval for requests)
Forms	Oracle Form Builder	SQL/PLSQL	Design and extend user forms (e.g., create a form for entering orders)
OAF	JDeveloper	SQL/PLSQL/Java ↓	Design user interface pages (e.g., dashboards for users)

E-Business Architecture :

- **OC4J:** A server that runs Java applications in Oracle EBS.
- **JSP:** A way to create dynamic web pages that display data.
- **BC4J:** A framework for handling business logic and database access in Java.
- **UIX:** A tool for building user interfaces using XML, making web pages interactive.



Application Tier Folder Structure :

1. \$APPL_TOP

- The main directory for the application files.
- Contains all application-related subdirectories.

/u01/app/oracle/product/12.2.0/apps/apps_st/appl

Subdirectories:

- **Admin Directory:** Contains administrative scripts and configuration files.
 - **Path:** /u01/app/oracle/product/12.2.0/apps/apps_st/appl/admin
- **Binary Directory:** Contains executable files and scripts.
 - **Path:** /u01/app/oracle/product/12.2.0/apps/apps_st/appl/bin
- **Clone Directory:** Used for cloning the EBS instance.
 - **Path:** /u01/app/oracle/product/12.2.0/apps/apps_st/appl/clone
- **Forms Directory:** Contains Oracle Forms files (*.fmb, *.fmx).
 - **Path:** /u01/app/oracle/product/12.2.0/apps/apps_st/appl/forms
- **Reports Directory:** Contains Oracle Reports files (*.rdf, *.xml).
 - **Path:** /u01/app/oracle/product/12.2.0/apps/apps_st/appl/reports

- **Technology Version Directory:** Contains technology-specific files.
 - **Path:**
/u01/app/oracle/product/12.2.0/apps/apps_st/appl/tech_version
- **Logs Directory:** Contains log files for application processes.
 - **Path:** /u01/app/oracle/product/12.2.0/apps/apps_st/appl/logs
- **HTML Directory:** Contains static web content (HTML, CSS, JavaScript).
 - **Path:** /u01/app/oracle/product/12.2.0/apps/apps_st/appl/htdocs

E-Business Architecture (Database Tier)

1. **Product Schemas:**
 - a. Individual data storage for specific applications.
 - b. Example: The GL (General Ledger) schema includes all the tables for managing financial data.
2. **APPS Schema:**
 - a. Centralized code and logic for all applications in EBS.
 - b. Includes things like PL/SQL scripts, views, and triggers that help the applications function.