

Practical No : 10

Aim : Web application using EJB

Problem Statement : Design & develop web application using EJB

Theory :

① Java Beans :-

- J2EE applⁿ container contains the components that can be used by client for executing the business logic
- These components are known as enterprise Java Beans (EJB). J2EE Platform has component based architecture to provide multi tiered, distributed & highly transactional features to enterprise level applⁿ
- It is used for developing very much scalable & robust enterprise level applⁿs to be deployed applⁿs server such as JBoss, WebLogic etc

② Features of EJB client Commⁿ -

- 1) State management
- 2) Transaction management
- 3) Database connection management
- 4) User authentication & role Based Authentication
- 5) Uses Asynchronous messaging
- 6) Applⁿ server administration

③ Types of Enterprise Java Beans (EJB)

- 1) Session Beans
- 2) Entity Beans
- 3) Message Driven Beans

④ Enterprise Java Beans Architecture :-

The EJB architecture is an extension of web architecture. It has an additional tier.

- The clients of an enterprise bean can be a traditional Java applⁿ, applet, JSP or server

* The following are flows of EJB architecture :

- The client is working on a web browser
- There is a db server hosts a db like mysql / oracle
- The J2EE Server m/c is running on an application server
- The client interface is provided with JSP / servlet. The enterprise bean's reside in the business tier providing to the client tier
- The applⁿ server manages the relationship betⁿ the client & db m/c

⑤ Design / execution steps:-

- 1) Design EJB project
- 2) Start JBoss & deploy it on JBoss server
- 3) Design html & JSP files with extension of html & jsp
- 4) Run the applⁿ

⑥ conclusion :-

Hence we have created a simple EJB Stateless session bean & local Java applⁿ client.