

Introduction

- EJB stands for **Enterprise Java Beans**.
- ✓ • Enterprise Java Beans is a server side component.
- EJB is an essential part of a J2EE platform
- J2EE application container contains the components that can be used by client for executing business logic. These components are called EJB.
- EJB Mainly contain the business logic and business data.
- EJB component always lie in some container which is called EJB container.
- EJB component is an EJB class which is written by developer that implement business logic.



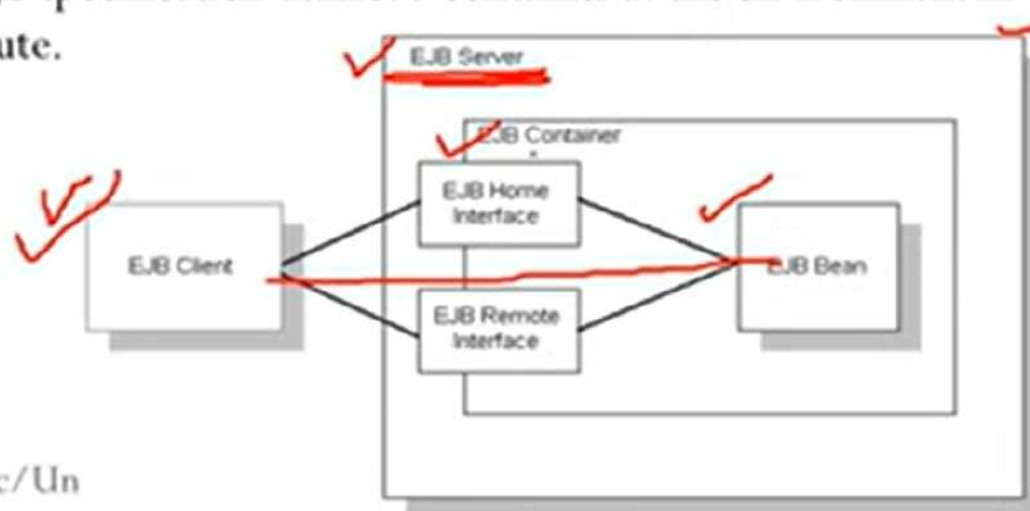
Introduction

- It is a specification provided by Sun Microsystems to develop secured, robust and scalable distributed applications.
- To run EJB application, you need an *application server* (EJB Container) such as Jboss, Glassfish, Weblogic, Websphere etc.
- EJB application is deployed on the server, so it is called server side component also.
- EJB Container performs:
 - life cycle management,
 - security,
 - transaction management, and
 - object pooling.



EJB Architecture

- **EJB server:** The EJB server contains the EJB container
- **EJB client:** An EJB client usually provides the user-interface logic on a client machine
- An EJB client does not communicate directly with an EJB component
 - **remote interface** defines the business methods that can be called by the client.
 - **home interface** methods to create and destroy proxies for the remote interface
- **EJB container** The EJB specification defines a container as the environment in which one or more EJB components execute.

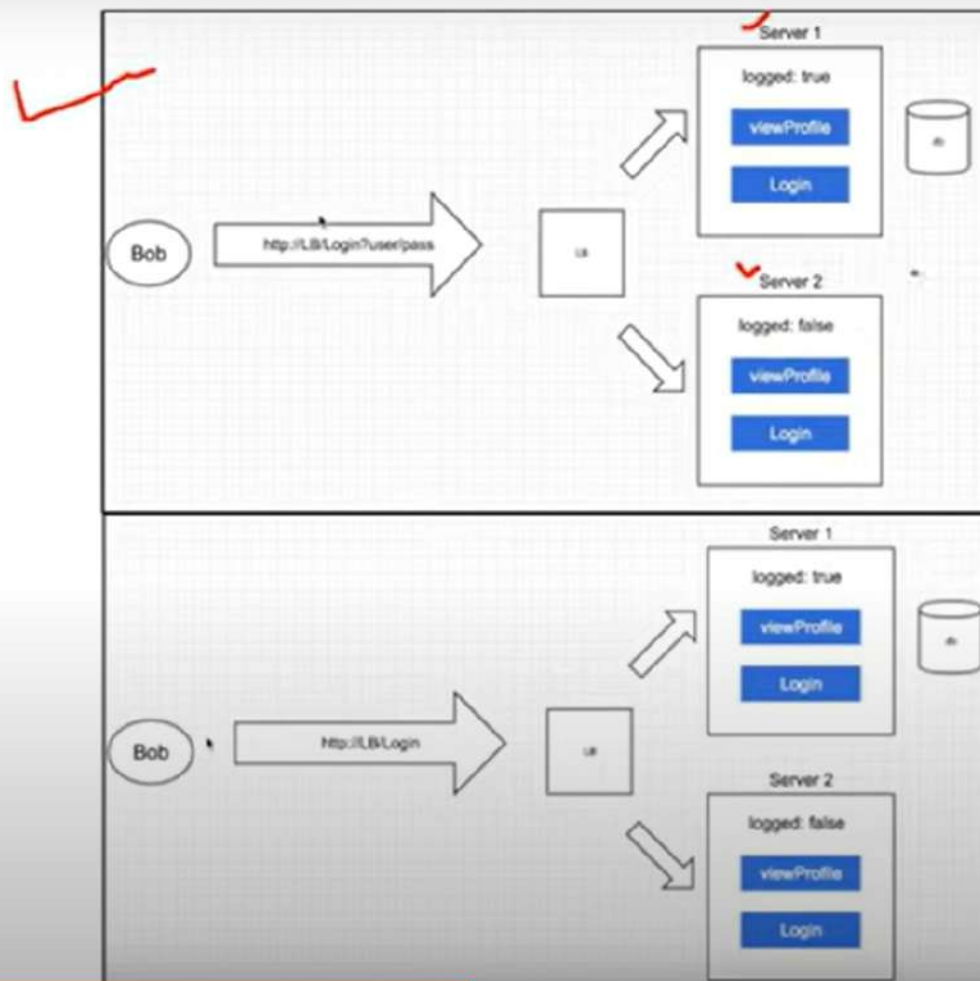


Web T

stateful

Stateful Session Bean: It

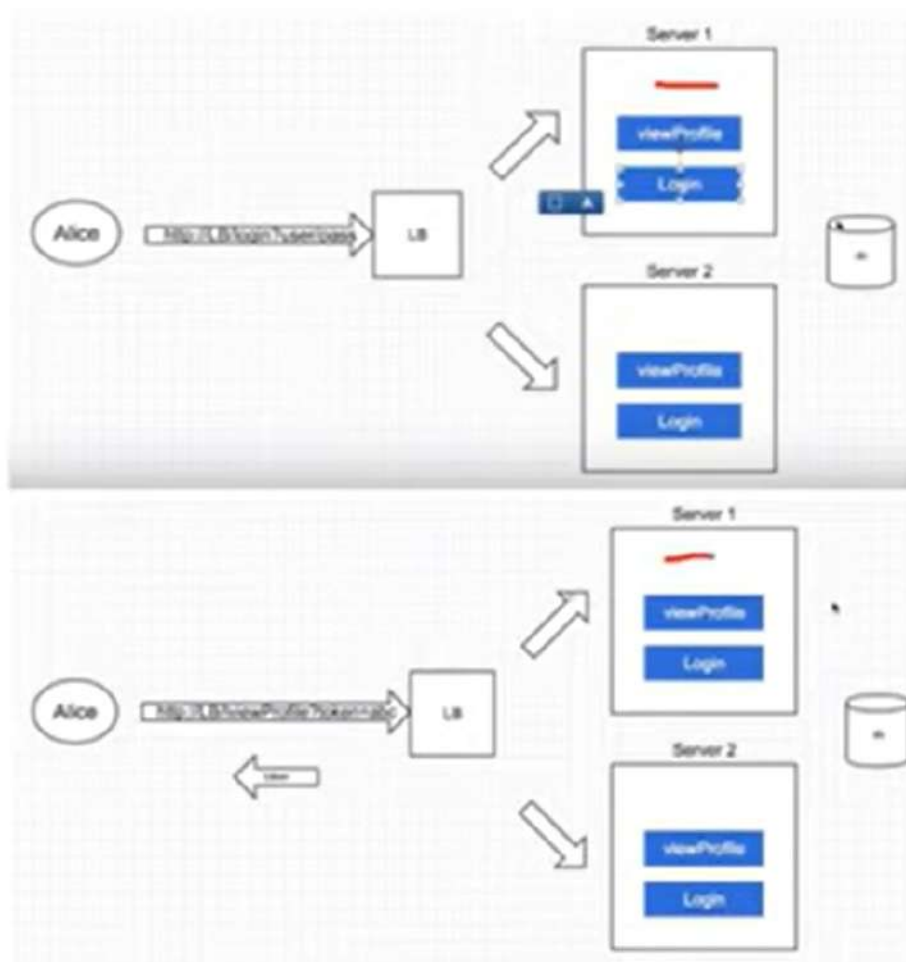
maintains state of a client across multiple requests.





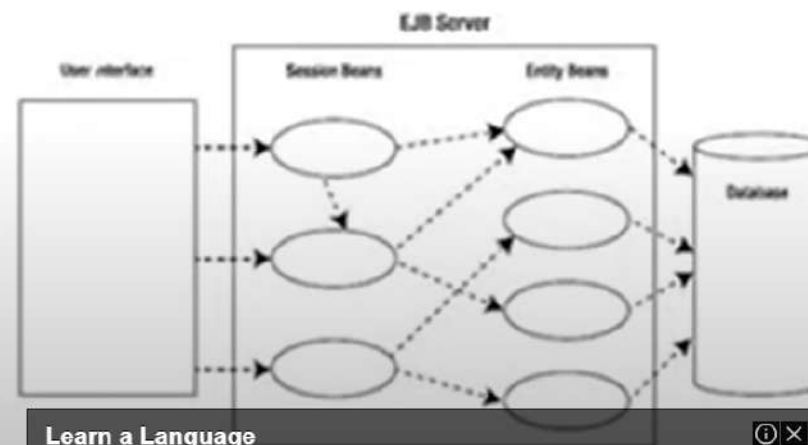
Stateless

Stateless Session Bean: It doesn't maintain state of a client between multiple method calls.



Entity Bean

- Entity Bean represent persistent data storage. User data can be saved to database via entity beans and later on can be retrieved from the database in the entity bean.



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Message Driven Bean

- **Message driven beans** are used in context of JMS (Java Messaging Service). Message Driven Beans can consumes JMS messages from external entities and act accordingly.

