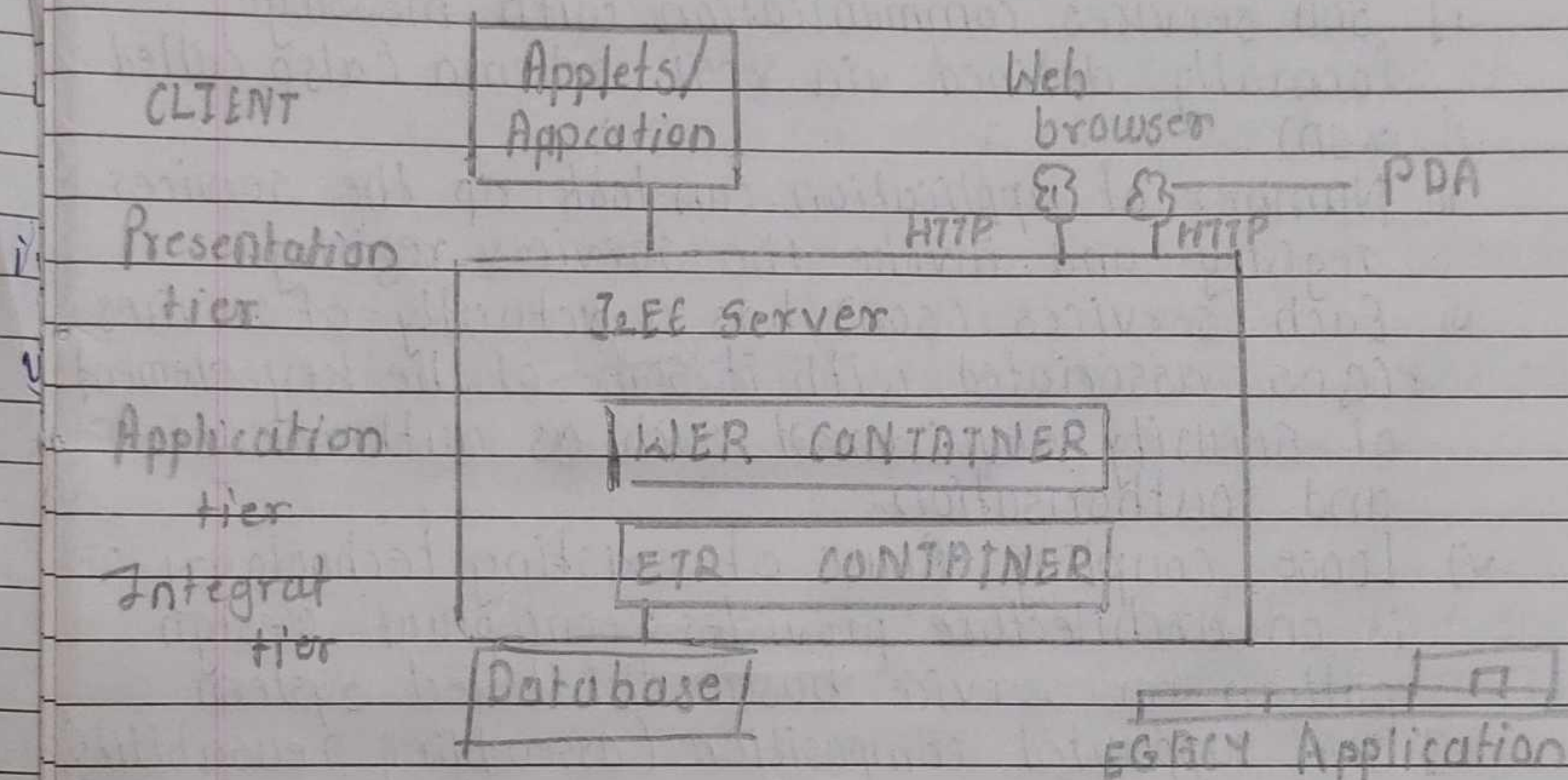


Assignment No-3

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- Q1 What is the role of J2EE in distributed computing?
- J2EE providing a programming model based upon web and business component that are managed by J2EE application server.

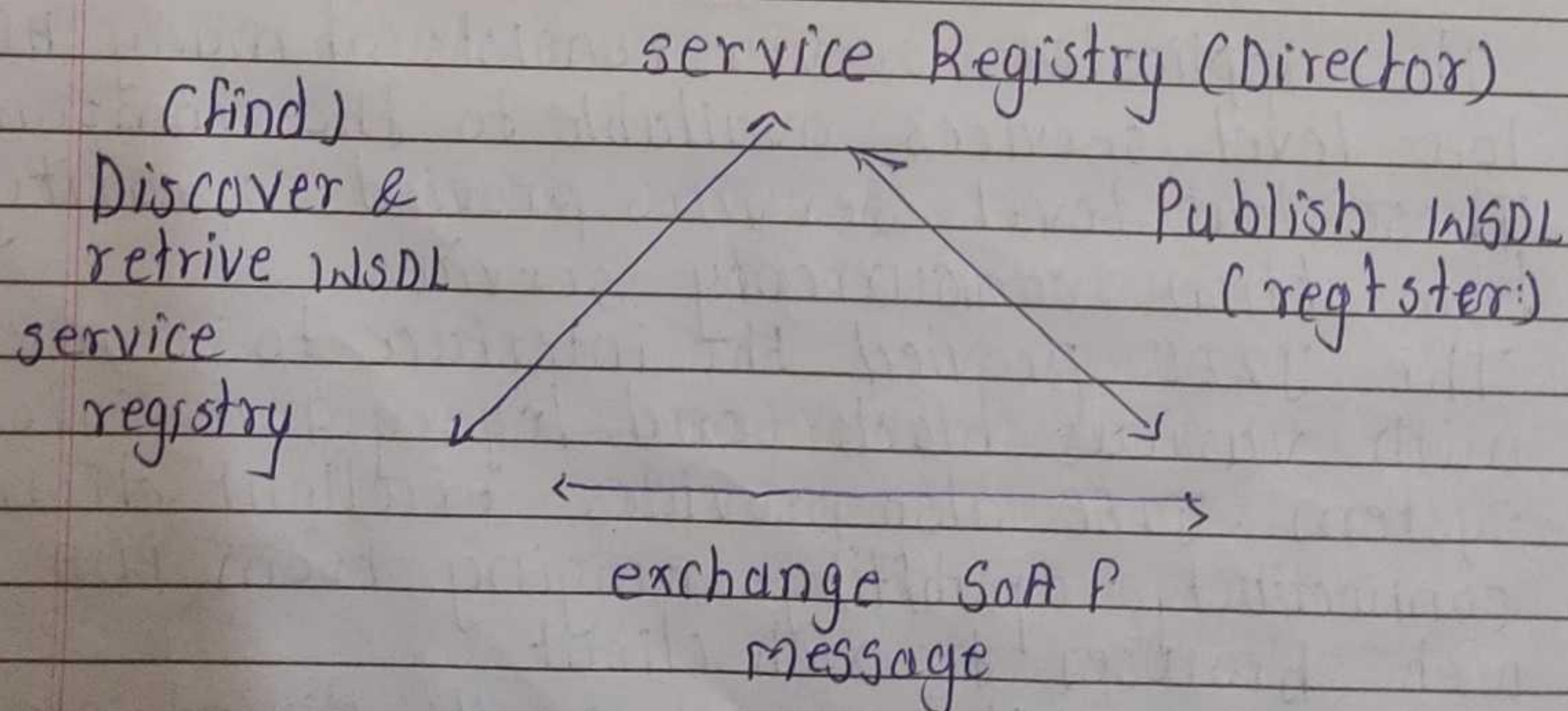


- i] The application server consists of many APIs & low level services available to the component. These low level services provided security transaction, concurrency services.
 - ii] The J2EE provided the interface to connect with various black-end legacy and information system. J2EE also provides excellent client connectivity capability ranging from PDA to web browser to rich client.
- The J2EE architecture physically divided into 3 tier.

5 What is service oriented architecture. Explain its key characteristics SoA.

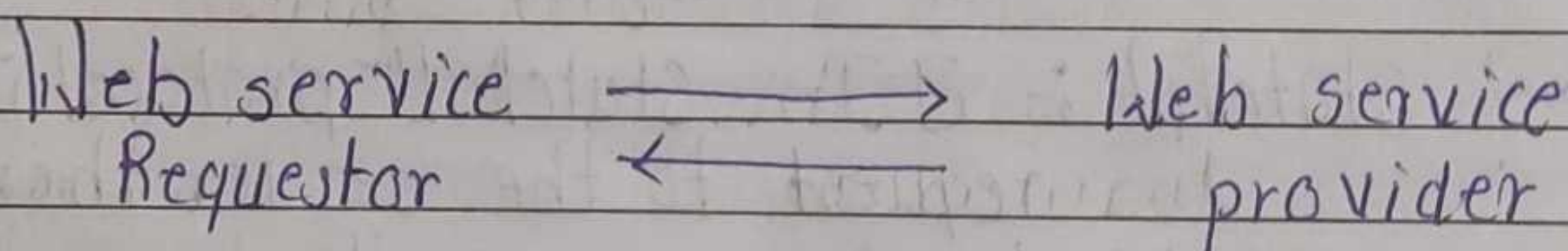
→ The SoA essentially a collection of services these services communicate with each other. The SoA have following key characteristics

- i] SoA services communication with message formally defined via XML schema (also called XSD)
- ii] Number of application can look up the services registry and invoke the services registry.
- iii] Each services (SoA) has a set of services associated with it some of the key elements of security requirement such as authentication and authorisation.
- iv] Loose coupling Reuse of existing technology SoA is an architecture provides conceptual design pattern for service based distributed system.
- v] SoA supported composition (assembling reusability)



Q5 What is RPC?

- i) It is defined a request / response based synchronous communication when the client send a request the client wait until a response is sent back from server before continuing or operation.
- ii) The RPC based web service are tightly coupled and are implemented with remote object of the client application.
- iii) The client have a capability to provide parameter in method call to the web service by sending parameter provider that executed the return value additionally using a RPC-based common model both the service provider & request can register & discover services respectively.



Synchronous means that every time a client service application the client receives the SOAP response.

Synchronous is request, response operation.

Q6 What are the features of SOAP?

- i) SOAP is a communication protocol and it is used for communication between application.
- ii) SOAP is a format for sending message.
- iii) SOAP communication through internet.
- iv) Independence - SOAP allow for any programming model.

SOAP is platform independent and language independency that is soap can be used in any language. SOAP is based on XML.

vi] Extensibility :- Security and ws routing among the extensions under development. SOAP is based extensible.

vii] Neutrality :- SOAP can be used over any transport protocol such as HTTP, SMTP, TCP.

viii] SOAP as a lightweight protocol - SOAP protocol process only two fundamental properties

- They are