JPA

Java Persistence API

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Introduction

- One of the significant improvement in the java plate form is the JPA.
- This is because it offers developers much easier way to access and manipulate relational data in the java application.
- There is more than that .
- The reaction to the java persistence has been extremely positive from the java community
- JPA has had a good start with strong acceptance by the java developers.

What is JPA?

- JPA stands for ***a java persistence API*** which is Javax. Persistence Package. Basically , it is a Java programming Language framework that helps developers to control relational data in java platform. The JPA exactly was described as part of the EJB3.0 , which is a replacement to the EJB2CMP Entity Beans specification, specification . As we know that ***a java persistence API*** is the newest of several Java persistence specifications.

What is persistence consists of.. ?

- Any persistence consists of there Areas:
- The API, defined in the Javax. Persistence package
- The java persistence Query Language
- Object / relational meta data.

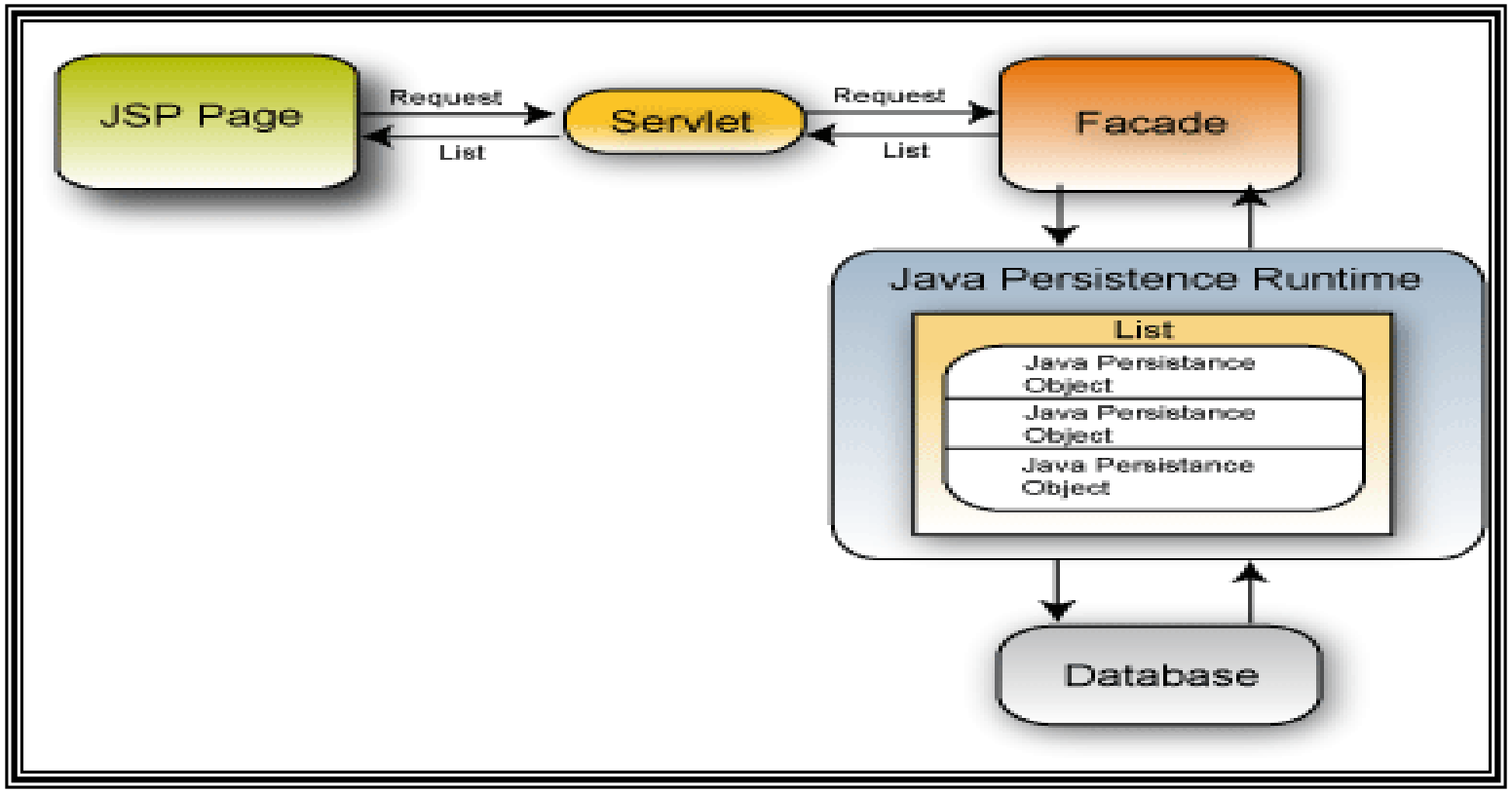
What JPA does exactly?

- JPA defined a runtime Entity Manger API processing queries and transaction on the objects against the database.
- It is defined a objects-level query language JPQL to allow querying of the objects from the database.

What is java persistence query language is used for?

- Basically, JPQL stands for Java Persistence Query Language. And it is used to make queries for against entities stored in a relational database. Queries resemble SQL queries in syntax, but operate against entity objects rather than directly with database tables.

Sample Process of Using Java Persistence API



Why we should use the Java Persistence API?

- **There is a great Motivation for creating JPA**
- Many enterprise Java developers have been using lightweight persistent objects, which supported by open-source frameworks or data access objects as a substitute of entity beans. This is because entity beans and enterprise beans were too heavyweight and complicated. Furthermore, they could only be used in Java EE application servers.

Summary of the Advantages of JPA

- JPA Requires Just smaller number of classes and interfaces
- It gets rid of lengthy deployment descriptors through annotations
- JPA Addresses most typical specifications through annotation defaults.
- JPA supports easier, cleaner, and standardized object-relational mapping.
- It add support for polymorphism, and inheritance.
- Also, dynamic queries and named queries is added to the JPA
- Supports a Java Persistence query language -- an improved EJB QL
- Makes it easier to test entities outside of the EJB container
- Can be used outside of the container

Questions