Java EE Application 1z0-900

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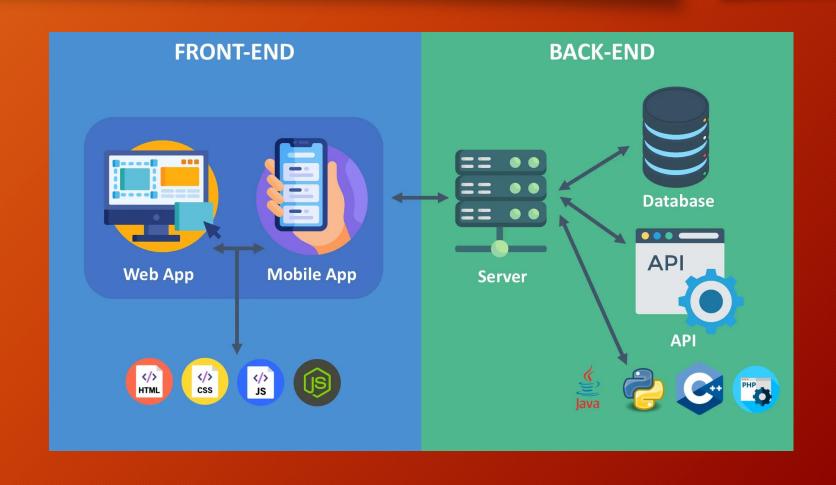
Mysql database Server 8.0

- Schema->專案名
- Table
- Ex:會員管理
 - Id
 - Name
 - Username
 - Password
 - Address
 - phone

id	name	username	pasword	address	phone
Int Pk Nn ai	varchar	varchar	varchar	varchar	varchar

JDBC(Java DataBase Connection)

- backEnd後端
- Class.forName
- Java.sql.*
- DriverManager
- SQL
- Statement
- PreparedStatement
- ResultSet



檢查是否有database廠商提供的Driver

- Class.forName
- Mysql 8.0
- com.mysql.cj.jdbc.Driver
- 非常重要

- MySQL Product Archives
- MySQL Connector/J (Archived Versions)

Product Version:	8.4.0	~
Operating System:	Platform Independent	v

Platform Independent (Architecture Independent), ZIP Archive

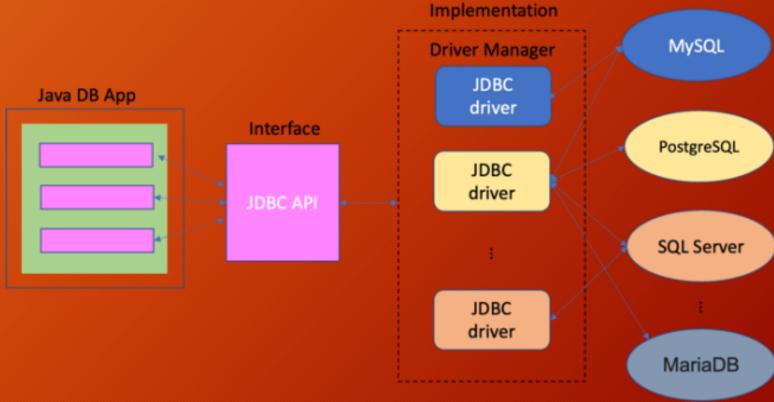
Mar 12, 2024

4.9M

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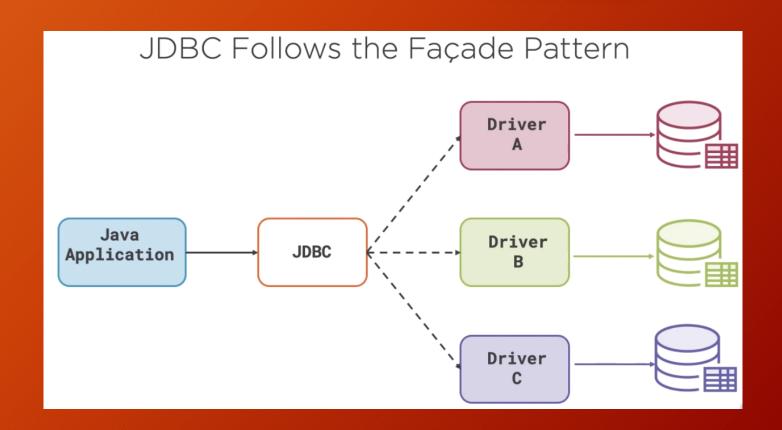
DriverManager

- getConnection方法
- url:主機名+schema
- User:root
- Password:



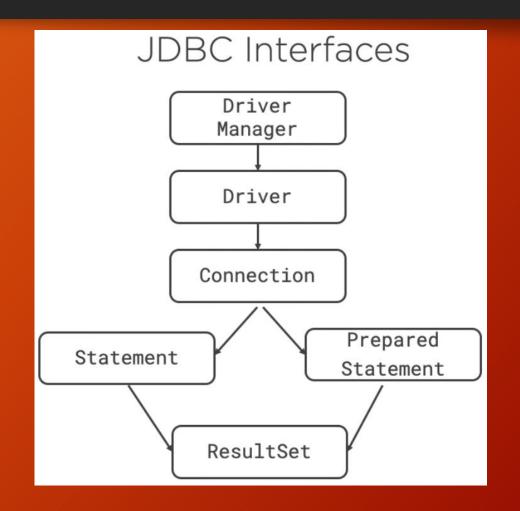
Jdbc connection

- Connection
- Java API
- Java.sql.*
- Sql語法



Jdbc API

- Java.sql.*
- Connection
- Statement
- preparedStatement



Statement

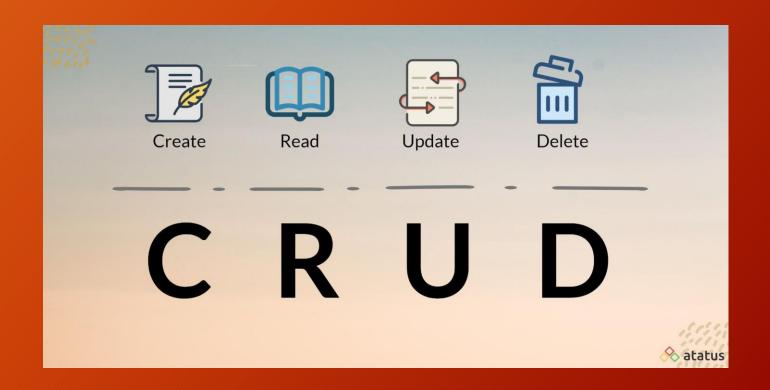
- Ex:
 - Insert into table() values()
- DriverManager
- Connection
- Statement
- executeUpdate()

PreparedStatement

- Ex:
 - Insert into table(name, username, password) values(?,?,?)
- DriverManager
- Connection
- PreparedStatement
- executeUpdate()

SQL CRUD

- Create
- Read
- Update
- Delete



PreparedStatement-create

- 語法
- Insert into 表格(欄位1,欄位2...) values(?,?..)
- Set類型 (索引,值).
- excuteUpdate();

Preparedstatement-read

- 語法:
- Select * from 表格
- Select * from 表格 where 條件=?
- set類型(索引,值);
- excuteQuery()方法
- 搭配 ResultSet
 - next()
 - get類型("欄位")

Preparedstatement-update

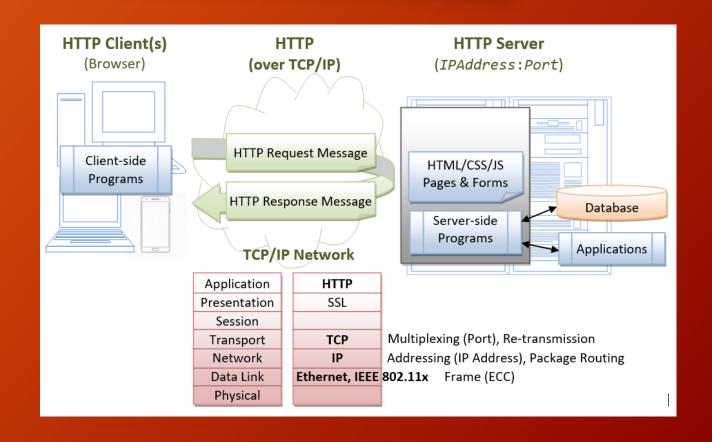
- 語法
- Update 表格 set 欄位=?,....where id=?
- Set類型(索引,值)
- excuteUpdate()

PreparedStatement-delete

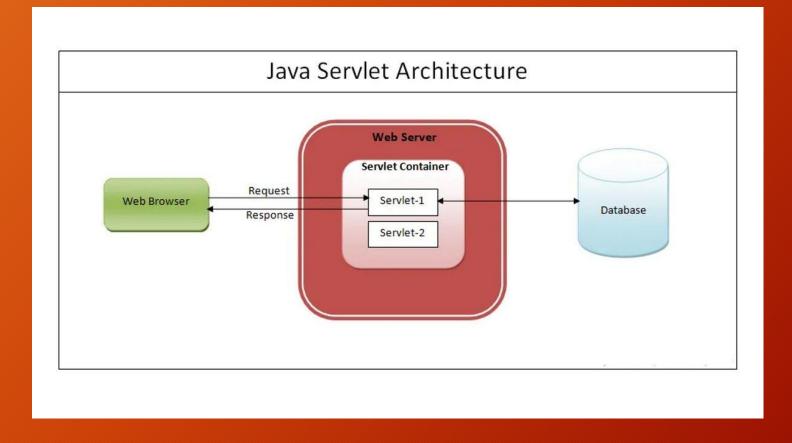
- 語法:
- Delete from 表 where 條件=?
- Set類型(索引,值)
- executeUpdate();

servlet

- Java
 - 後端web server(tomcate)
 - 與前端 UI(browser)溝通的 api
- TCP/ip協定
 - Request->前端送請求
 - Response->後端作回應
- ·擔任UI與資料庫中間的橋樑
- •接收前端經過檢查,計算..再將 結果回覆給UI



Servlet的運作方式



Servlet 物件生命週期

- Init()
- Service()
 - doGet
 - doPost
- Destroy()
- HttpServletRequest
- HttpServletResponse

