JDBC API (Java Data Base Connectivity API)

1. Connection (Interface)
2. Statement (Interface)
3. ResultSet (Interface)
4. DriverManager (Class)
5. PreparedStatement(Interface)
6. CallableStatement(Interface)

All these interfaces and classes are available in java.sql package

Using JDBC API, one can interact with any RDBMS like oracle, mysql etc.,

IPC – Inter Process Communication

Steps to interact with RDBMS using JDBC api

1. Load & Register the Driver
2. Establishing a connection
3. Create statement to execute query
4. Store Query execution Result in ResultSet, Process ResultSet and display the output.
5. Close all resources.

JPA (Java Persistence API)

1. It’s actually a Specification
2. It has many implementation (Genrics, EclipseLink, Hibernate, iBatis etc., )
3. Configuration file (Persistence unit – persistence.xml)

Steps to Create JPA Project

1. Create a New JPA project
2. Add Libraries (Generic/EclipseLink Library)
3. Configure Connection properties (driver details, url, username & password)
4. Test the connection and add drivers to the build path.
5. Configure persistence.xml to use the connection properties (Resource\_Local)
6. Create bean classes using JPAEntity
7. Create EntityManger ref using EntityManagerFactory & Persistence Object.
8. Then do the CRUD operation using Bean objects & EntityManager Ref

For Angular & Spring Boot (30 July 2018)

1. Download nodejs 10.7.0 from <https://nodejs.org/en/>
2. Open Command Prompt type node –v
3. Type npm install npm@latest –g
4. Type npm install –g @angular/cli
5. Type ng –v

Angular CLI: 6.1.1

Node: 10.7.0

OS: win32 x64

Angular:

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Package Version

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@angular-devkit/architect 0.7.1

@angular-devkit/core 0.7.1

@angular-devkit/schematics 0.7.1

@schematics/angular 0.7.1

@schematics/update 0.7.1

rxjs 6.2.2

typescript 2.7.2

1. Download Visual Studio Code for Windows from <https://code.visualstudio.com/download>
2. Download STS (Spring Tools Suite) for windows from <https://spring.io/tools/sts/all>