**Hibernate**

* Hibernate is java framework that simplifies the development of java application to interact with the data base.
* Hibernate is ORM (object Relational Mapping) tool.
* Hibernate is Open source, lightweight.
* Hibernate is non-invasive (loosely couple) frame works, means wont’s forces the programmer to extend/implemented any class/interface.
* It is invented by Gavin King 2001.
* Any type of application can build with Hibernate Framework.

**HibernateTemplate:-**

It is class which provides all the functionality to perform operation with database.

Methods are:- **Save(),Upadte(),Insert(),get(),loadAll()…. Interface**

HibernateTemplate

ProductDao

SessionFactory

LocalSessionFactoryBean

1. Datasource
2. Hibernate Properties
3. AnnotedClass

DataSource

**url,username,password**

**Annotation:-**

**@Entity :-** defines that a class can be mapped to a table

**@Transactional** :-It is both class level and method level ,it used to transaction whenever in database write or update operations required.

**@Table(name="student\_details")** :-It is define to Specific table name

**@Id** :- The @Id annotation offer the simplest mechanism to define the mapping to the primary key.

**@Column(name="student\_id")** :- It is used for Adding the column the name in the table of a particular MySQL database.

**Impotant packages :-**

1. *org.springframework.jdbc.datasource.DriverManagerDataSource*
2. *org.springframework.orm.hibernate5.LocalSessionFactoryBean*
3. *org.springframework.orm.hibernate5.HibernateTemplate*
4. *org.springframework.orm.hibernate5.HibernateTransactionManager*