**Date : 16/10/2020**

**Spring Boot 7AM**

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**--------------------------------------------**

**Association Mapping in JPA (HAS-A)**

**with multiplicity (1...1/1...\*/\*...1/\*...\*)**

=> Creating Relation between two tables, by using PrimaryKey(PK)-ForeignKey(FK) Concept.

=> One Table PK is taken as another table FK to create link b/w table using any multiplicity

=> 1...\* (meaning) = 1 row in one table are connected to many rows in another table

=> 1...1 Examples:-

Person --- VoterId/PanCard/Aadhar

=> 1...\*

Person -- BankAccount

=> 1...\* (and) \*...1 = \*...\*

Book --- Author

Note:

=> Incase of tables link using multiplicity, create FK Column(Extra Column) at many side (\* side)

[for 1...\*/\*...1]

=> For \*...\* concept, use 3rd table [Join Table] using two FK Columns

JoinColumn : A Fk column which links with 1st table

inverseJoinColumn : A Fk column which links with 2nd table.

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Non-Collection Collection

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1...1 1...\*

\*...1 \*...\*

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=> Association Mapping Implementation Steps:-

a. Apply HAS-A Relation between classes

b. Check for Collection Type (or not?),

if it is Collection then modify HAS-A variable as Collection variable.

c. Apply multiplicity Annotation at HAS-A Variable

1...1 @ManyToOne (unique condition)

\*...1 @ManyToOne

1...\* @OneToMany

\*...\* @ManyToMany

d. Apply JoinColumn (or) JoinTable at HAS-A Variable level

=> Code should be at parent model class (HAS-A variable level) only for any multiplicity.

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