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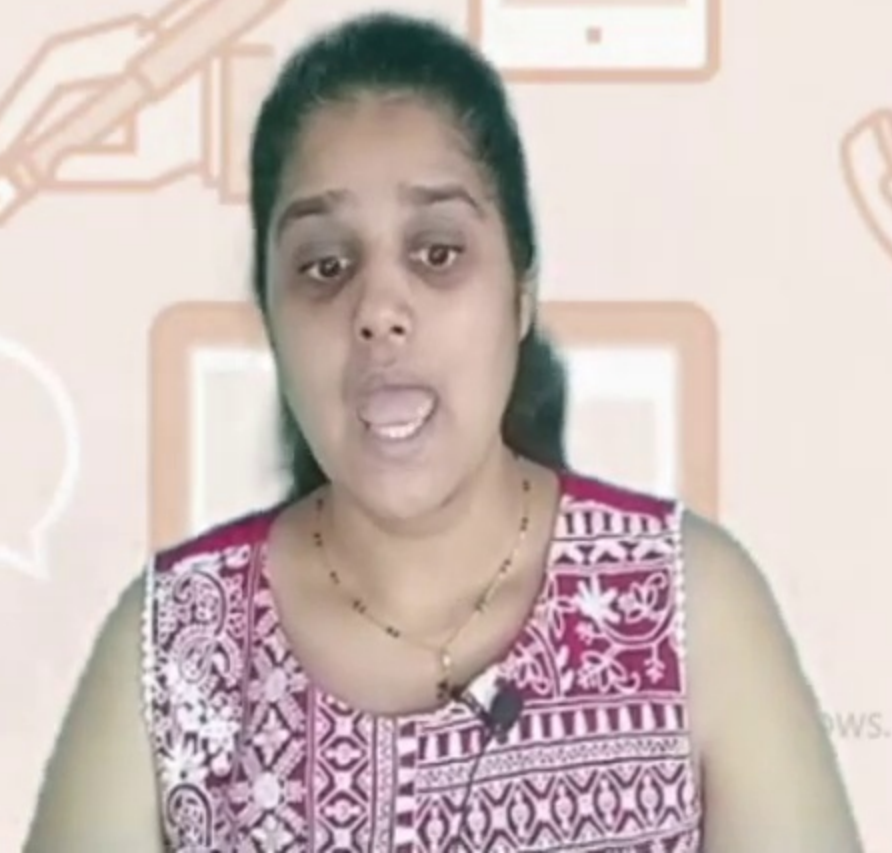
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Hibernate Overview and Architecture

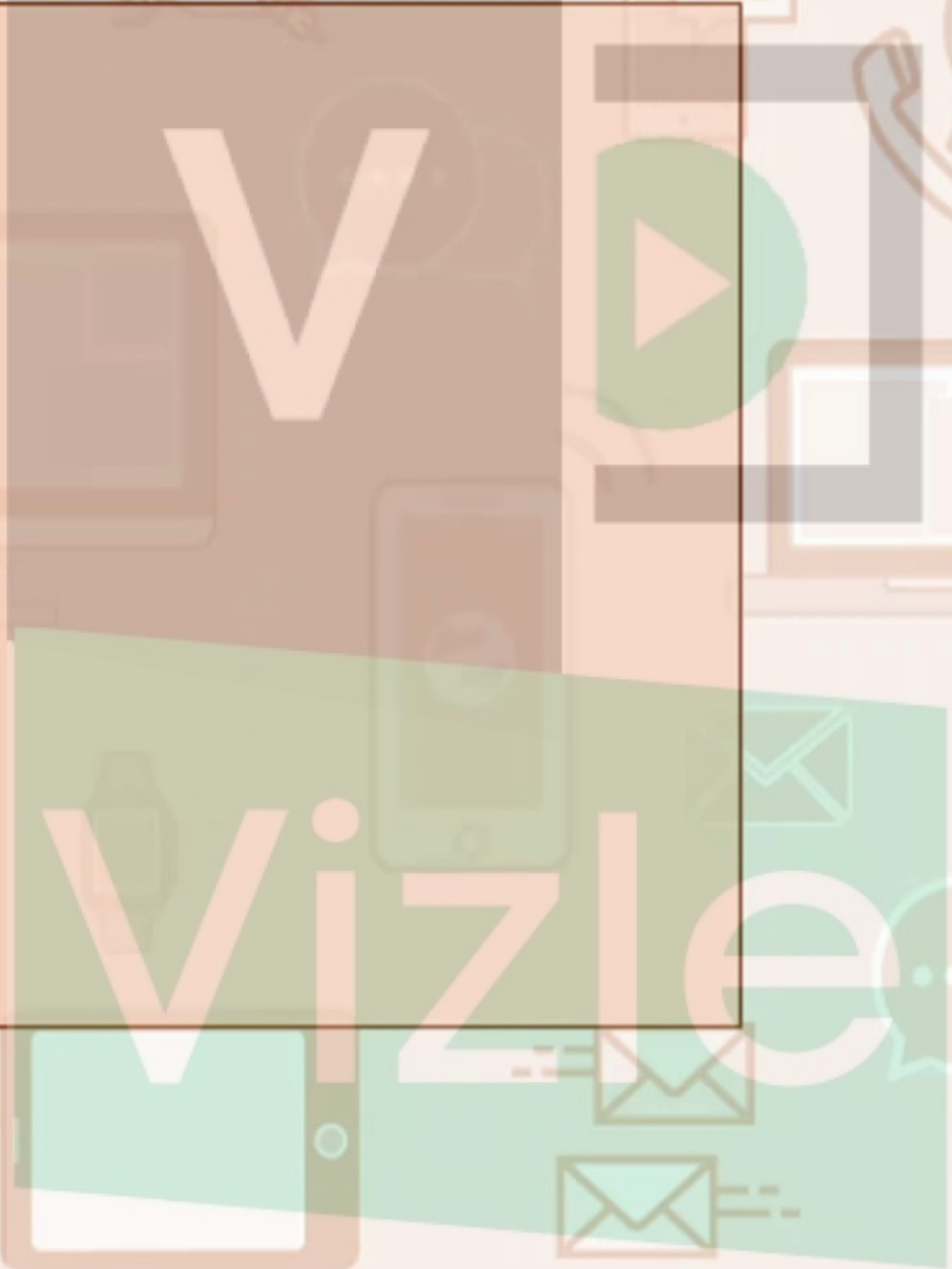
- Introduce Hibernate
- Object Relational Mapping (ORM)
- Hibernate Mapping Types
- Hibernate Architecture
- Accessing Database via Hibernate



Dr. Shruti B. Yagnik



Introduce Hibernate



Need of Hibernate



Introduce Hibernate

JDBC Disadvantages

- ❁ Complex if used in large projects
- ❁ Large programming overhead
- ❁ No encapsulation
- ❁ Hard to implement MVC concept
- ❁ Query is DBMS specific



Introduce Hibernate



Hibernate Advantages

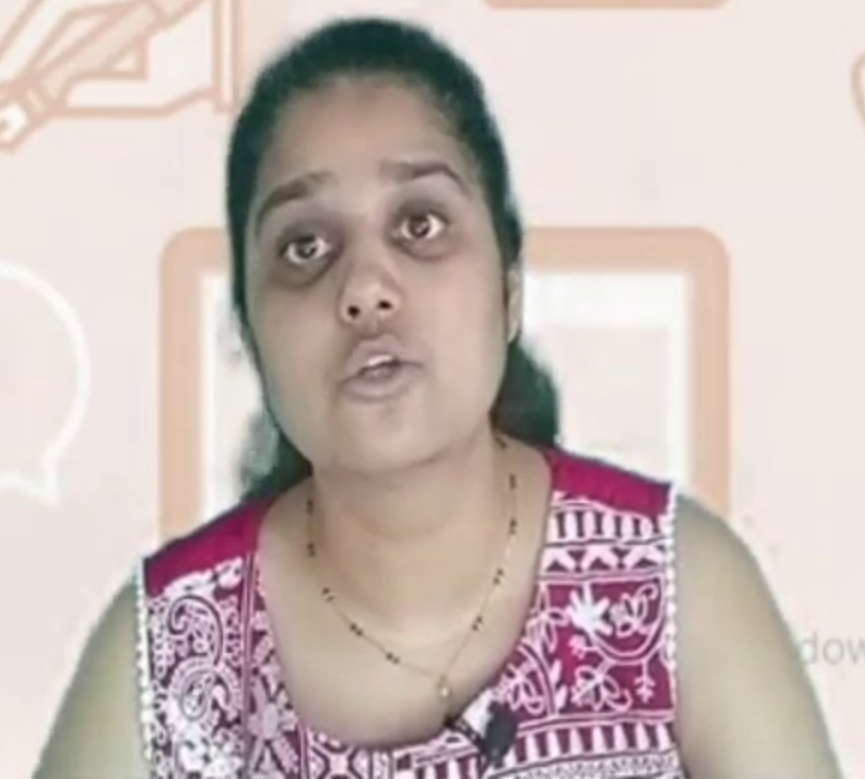
- Let's business code access objects rather than DB tables.
- Hides details of SQL queries from OO logic.
- Based on JDBC 'under the hood.'
- No need to deal with the database implementation.
- Entities based on business concepts rather than database structure.



Object Relational Mapping (ORM)



- Tool, helps map Objects to Relations
- Java classes to database tables



Primitive Type

Hibernate
Mapping Types



Mapping Type	Java Type	SQL Type
integer	int or java.lang.Integer	INTEGER
long	long or java.lang.Long	BIGINT
short	short or java.lang.Short	SMALLINT
float	float or java.lang.Float	FLOAT
double	double or java.lang.Double	DOUBLE
big_decimal	java.math.BigDecimal	NUMERIC
character	java.lang.String	CHAR(1)
string	java.lang.String	VARCHAR
byte	byte or java.lang.Byte	TINYINT
boolean	boolean or java.lang.Boolean	BIT

ORM - Java Primitive Types to SQL Types



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