

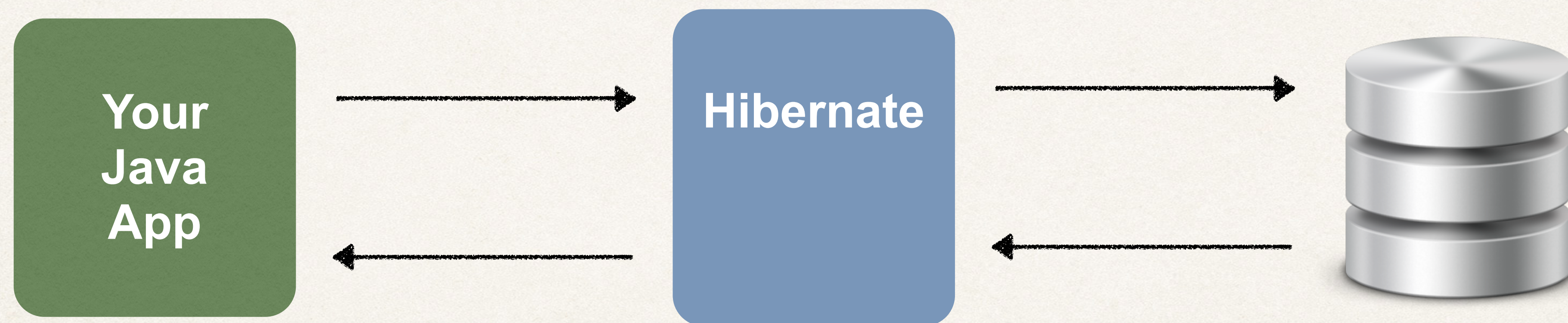
Hibernate Overview

Topics

- What is Hibernate?
- Benefits of Hibernate
- Code Snippets

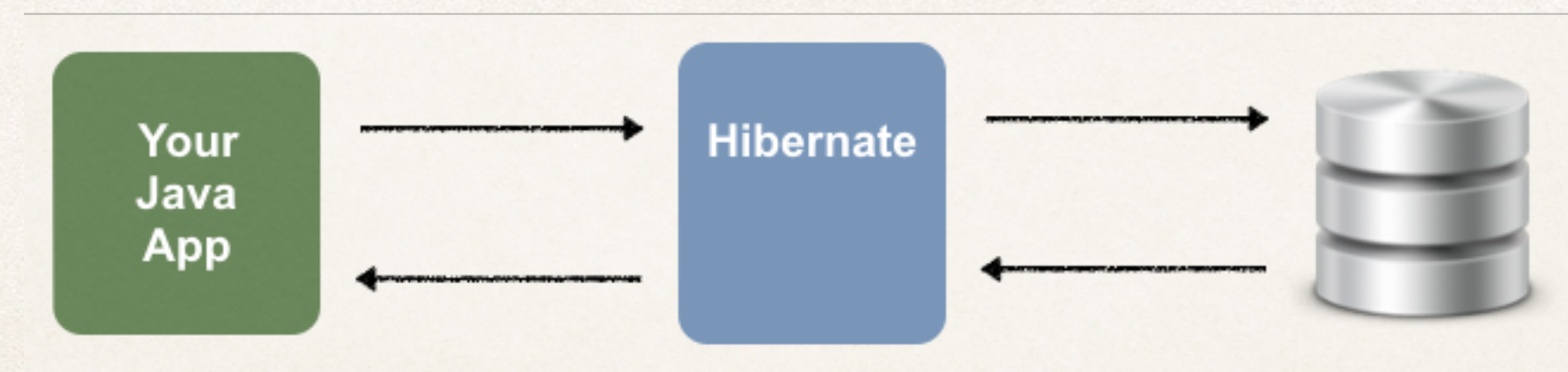
What is Hibernate?

- A framework for persisting / saving Java objects in a database
- www.hibernate.org



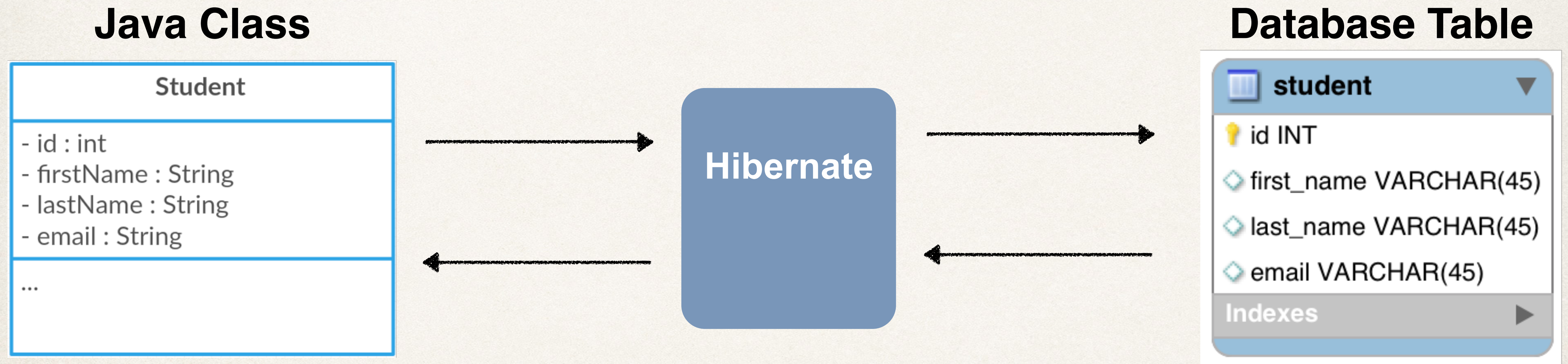
Benefits of Hibernate

- Hibernate handles all of the low-level SQL
- Minimizes the amount of JDBC code you have to develop
- Hibernate provides the Object-to-Relational Mapping (ORM)



Object-To-Relational Mapping (ORM)

- The developer defines mapping between Java class and database table



Saving a Java Object with Hibernate

```
// create Java object  
Student theStudent = new Student("John", "Doe", "john@luv2code.com");  
  
// save it to database  
int theId = (Integer) session.save(theStudent);
```


Retrieving a Java Object with Hibernate

// create Java object

```
Student theStudent = new Student("John", "Doe", "john@luv2code.com");
```

// save it to database

```
int theId = (Integer) session.save(theStudent);
```

// now retrieve from database using the primary key

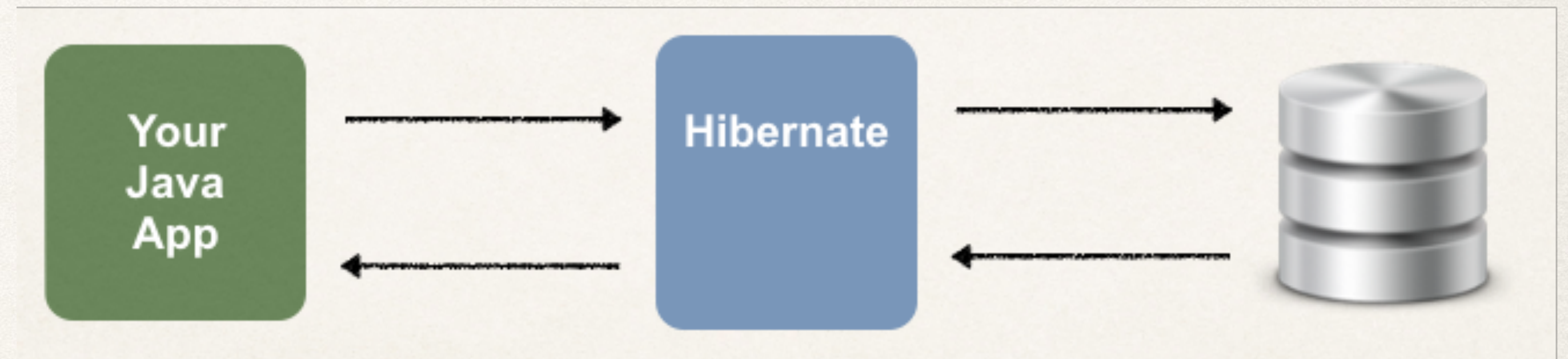
```
Student myStudent = session.get(Student.class, theId);
```


Querying for Java Objects

```
Query query = session.createQuery("from Student");  
List<Student> students= query.list();
```


Hibernate CRUD Apps

- Create objects
- Read objects
- Update objects
- Delete objects




Hibernate is actually more than ORM!

Hibernate. Everything data.

Hibernate Search 5.6.0.Alpha2 introduces Elasticsearch integration


[More news](#)

Hibernate ORM

 Domain model persistence for relational databases


[More →](#)

Hibernate Search

 Full-text search for your domain model


[More →](#)

Hibernate Validator

 Annotation based constraints for your domain model


[More →](#)

Hibernate OGM

 Domain model persistence for NoSQL datastores


[More →](#)

Hibernate Tools

 Command line tools and IDE plugins for your Hibernate usages

[More →](#)

Others

 We like the symmetry, everything else is here

[Even more →](#)

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