SESSION THREE

Persistence with Spring Data



Spring Data

Familiar. Consistent. Easy.

- Relational
- Abstract
- Map-Reduce
- Non-Relational
- Cloud







Spring Data



Features

- PowerfulObject-MappingAbstraction
- Dynamic QueryDerivation
- Transparent Auditing
- Spring MVC Integration
- Domain Base Class
- Experimental
 Cross-Store Persistence



Primary

- Spring Data Commons
- Spring Data Gemfire
- Spring Data REST
- Spring Data JDBC
- Spring Data JPA
- •



Community

- Spring Data DynamoDB
- Spring Data Vault
- Spring Data
 Elasticsearch
- Spring Data Couchbase
- Spring Data Neo4j
- ..



Release Train

- Umbrella Project
- Curated
- Bill of Materials

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Building Blocks

CRUD Repository

```
public interface CrudRepository<T, ID extends</pre>
Serializable>
 extends Repository<T, ID> {
 <S extends T> S save(S entity);
 Optional<T> findById(ID primaryKey);
 Iterable<T> findAll();
 long count();
 void delete(T entity);
 boolean existsById(ID primaryKey);
 // ... more functionality omitted.
```

Extensions

- Technology-Specific
- Paging & Sorting
- Derived Query Count
- Composability
 - 0 @EntityGraph
 - O @Lock
 - 0 @Modifying
 - O @Query
 - @Procedure

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Questions?

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Lab: Spring Data