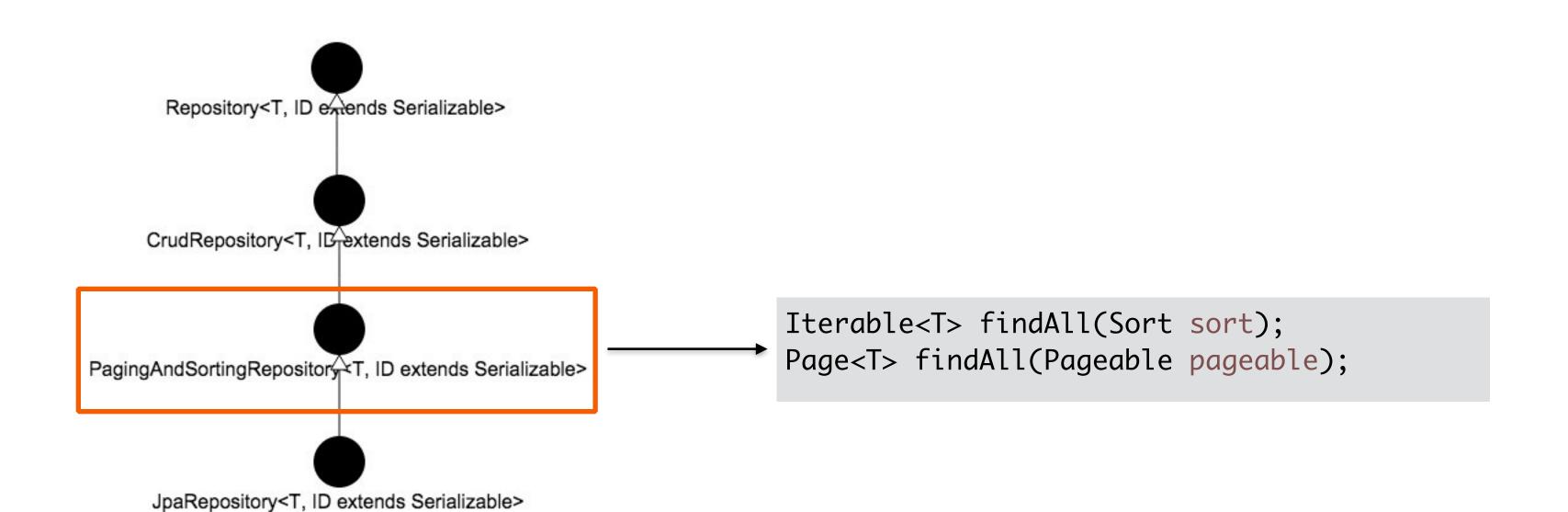
Advanced Features



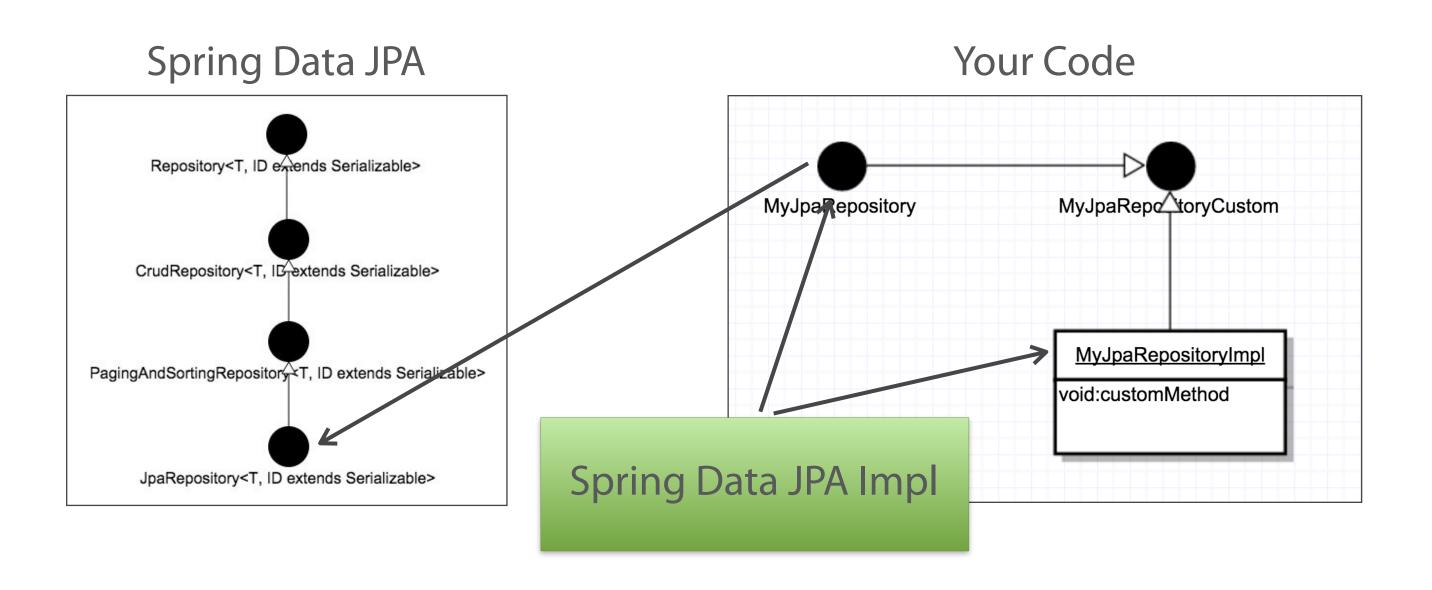
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Paging and Sorting



Custom Repositories



Auditing Support

Spring Data JPA Annotations

- @CreatedBy
- @CreatedDate
- @LastModifiedBy
- @LastModifiedDate

```
Auto Set
```

```
@Entity
public class Model {
  @CreatedBy
  private User user;
  @CreatedDate
  private DateTime createdDate;
```

```
public class SecurityAuditorAware
           implements AuditorAware<User> {
 public User getCurrentAuditor() {
  //...
    return user;
```

```
<jpa:auditing auditor-aware-ref="securityAuditorAware" />
@Configuration
@EnableJpaAuditing
public class Config {
  @Bean
  public AuditorAware<User> auditorProvider() {
    return new SecurityAuditorAware();
```

Locking

```
@Entity
public class Model {
    @Version
    private int version;
...
}
```

Optimistic Locking

If version number doesn't match, throws
 OptimisticLockException

Pessimistic Locking

 Long term locks the data for the transaction duration, preventing others from accessing the data until the transaction commits

```
@Lock(LockModeType.PESSIMISTIC_WRITE)
List<Model> findByModelTypeNameIn(List<String> types);
```

Summary



Paging and sorting
Custom repositories
Auditing
Locking