

# Working with Advanced Spring Data JPA Features

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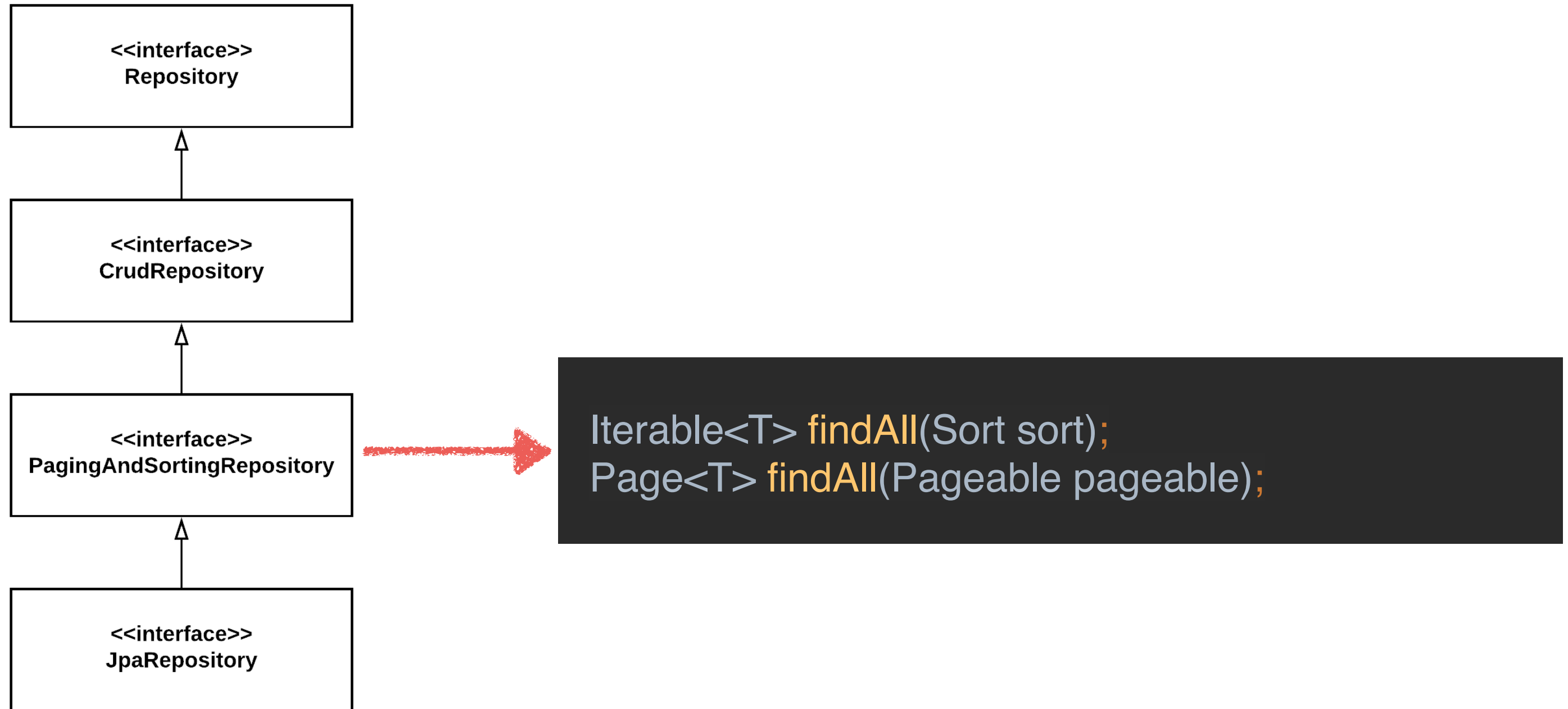


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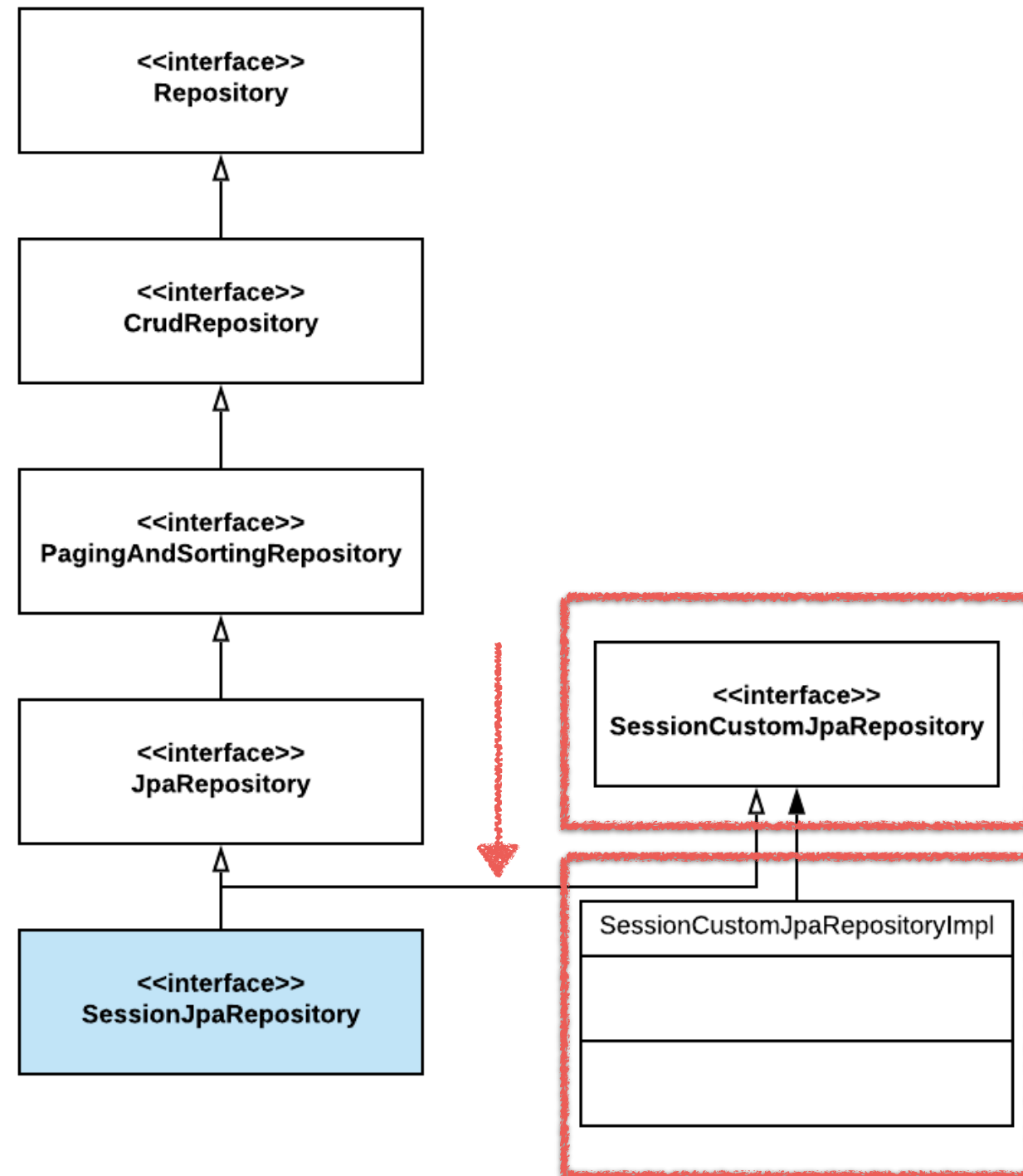
# Paging and Sorting



# Clip 3 - Overview Placeholder

Demo: Paging and Sorting

# Custom Repositories




# Clip 5 - Overview Placeholder

Demo: Custom Repositories

# Auditing Support

## Audit Annotations

- **@CreatedBy**
  - **@LastModifiedBy**
  - **@CreatedDate**
  - **@LastModifiedDate**
- Auto Set
- 

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

    @CreatedDate
    private DateTime createdDate;
}
```

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

```
@Configuration
@EnableJpaAuditing
public class AuditingConfiguration {
    @Bean
    public AuditorAware<User> auditorProvider() {
        return new SecurityAuditorAware();
    }
}
```

# Locking

## 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

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

```
@Lock(LockModeType.PESSIMISTIC_WRITE)
List<Model> findByAttributeName(String name);
```

# Summary

**Paging and sorting**

**Custom repositories**

**Auditing**

**Locking**