



Spring Framework 6

Beginner to Guru

Paging and Sorting with Spring



Paging and Sorting with Spring

- Paging and Sorting in Spring has an API in the Spring Data Commons project
- This API is used to define Paging and Sorting in the Spring Data family of projects
- Each Spring Data project provides its own implementation of this API
- In this course we are using the JPA version
- Techniques learned with the JPA version will be portable to other platform versions of Spring Data
- Spring Data JPA abstracts the paging and sorting to the JPA Standard





Paging and Sorting Core Components

- **PageRequest** - is a Java object used to describe the desired page of data
 - Includes the page number, page size and sort information
- **Sort** - Object describing how to sort the requested data
- Creating a **PageRequest**:
 - page number (zero based), and size (number of records)
 - Defaults to unsorted
 - page number, size, and sort





Paging and Sorting Core Components

- **Page** - Is an interface describing the result of a paged query
 - content - list property containing requested page of data
 - Also has page number, size, and sort information
 - Has utility methods to get next and previous Pagable





Paging and Sorting with Spring Data JPA

- Paging and Spring with Spring Data JPA is simple to implement
- Query methods in Spring Data JPA will accept paging request information
- Query methods in Spring Data JPA will return paging information
- To implement paging and sorting on Spring Data JPA query methods:
 - Add **PageRequest** as a parameter to the defined method
 - Use **Page** with generic of content type for the return type



