Spring Boot – Spring Boot Rest API overview

Converting Home Page to Rest API

RequestMapping() is something which is base level mapping for your entire controller.

Create a HomeRestController in Controller folder

```java
package org.studyeasy.SpringBlog.controller;

import java.util.List;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RestController;
import org.studyeasy.SpringBlog.models.Post;
import org.studyeasy.SpringBlog.services.PostService;

@RestController
@RequestMapping("/api/v1")
public class HomeRestController {
    @Autowired
    private PostService postService;

    @GetMapping("/")
    public List<Post> home() {
        return postService.findAll();
    }

    // @GetMapping("/")
    // public List<String> home() {
    //     return List.of("Post 1", "Post 2", "Post 3");
    // }
}
```

<u>There was an error while fetching the JSON data</u>

- **`@JsonBackReference`**: This annotation is placed on the child entity's reference back to the parent entity. In this case, it's in the `Post` class on the `account` field. This marks the field as the back reference and prevents infinite recursion.

- **`@JsonManagedReference`**: This annotation is placed on the parent entity's reference to the child entity. In this case, it's in the `Account` class on the `posts` field. This marks the field as the managed reference, which is the forward part of the reference.

Updated Post.java

```java
@OneToMany(mappedBy = "account")
@JsonManagedReference
private List<Post> posts;
```

Updated Account.java

```java
@ManyToOne
    @JoinColumn(name="account_id", referencedColumnName = "id", nullable = true)
    @JsonBackReference
    private Account account;
```

Output