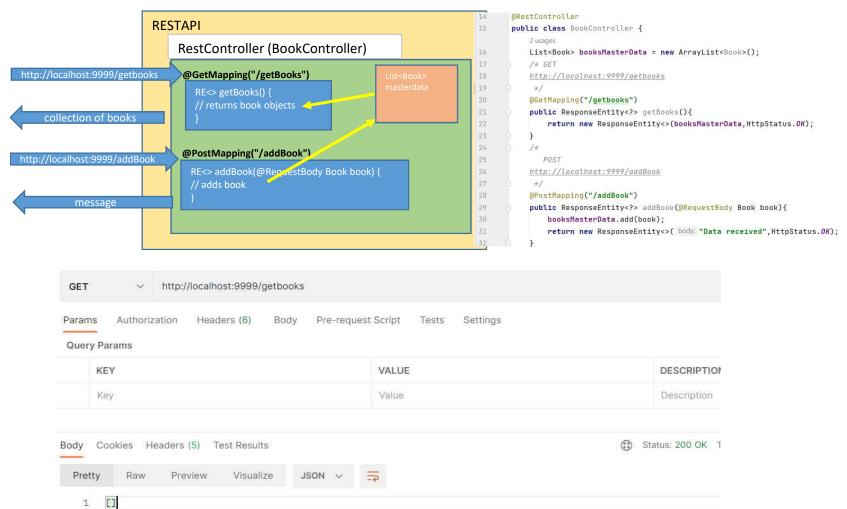
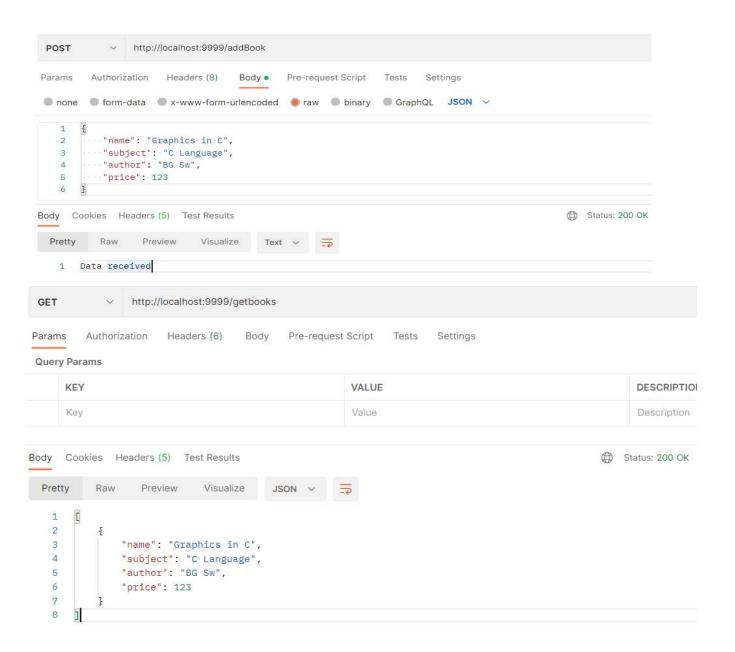
BookController --- HAS --> BooService ---- HAS----> BookDAO

```
class BookService {
 class BookCOntroller {
                                                                                                       class BookDAO {
 BookService bs;
                                                    BookDAO bd;
                                                                                                       m1()...
bs = BookService();
                                                    bd = new BookDAO();
                                                                                                       m2()...
bs.m1();
                                                    bd.m1();
bs.m2();
                                                    bd.m2();
Controller Layer
                                                                                                                    DAO Layer
                                                    Service Layer
 bookcontroller
                                                    interface BookService
                                                                                                                    interface BookDAO
                                                                 void m1();
BookService bs;
                                                                 void m2();
bs = new BookServiceImpl();
bs.m1();
                                                    class BookServiceImpl impl..
                                                                                                                    class BookDAOImpl impl...
b2.m2();
                                                                 BookDAO bookDao;
                                                                bookDao = new BookDAOImpl();
                                                                 void m1 () { }
                                                                 void m2() { }
Yesterdays demo
                          22/12/2022
                             RESTAPI
                                RestController (BookController)
                                                                                38
                                                                                         @GetMapping("/getbooks")
                                                                                39
                                                                                         public ResponseEntity<?> getBooks(){
                                                                                             Book books[] = {
http://localhost:9999/getbooks
                                 @GetMapping("/getBooks")
                                                                                                new Book( name: "Tags", subject: "HTML", author: "Ravi", price: 2345),
                                   RE<> getBooks() {
                                                                                42
                                                                                                new Book( name: "Rest", subject: "Springboot", author: "MC", price: 3454)
                                                                                43
      collection of books
                                                                                44
                                                                                             return new ResponseEntity<>(books, HttpStatus.OK);
                                                                                45
                                                                                46
                                 @PostMapping("/addBook")
                                                                                47
 http://localhost:9999/addBook
                                                                                48
                                                                                         http://localhost:9999/addBook
                                   RE<> addBook(@RequestBody Book book) {
                                                                                49
                                   // adds book
                                                                                         @PostMapping("/addBook")
                                                                                50
                                                                                51
                                                                                         public ResponseEntity<?> addBook(@RequestBody Book book){
                                                                                52
                                                                                             System.out.println(book);
                                                                                             return new ResponseEntity<>( body: "Data received", HttpStatus.OK);
```

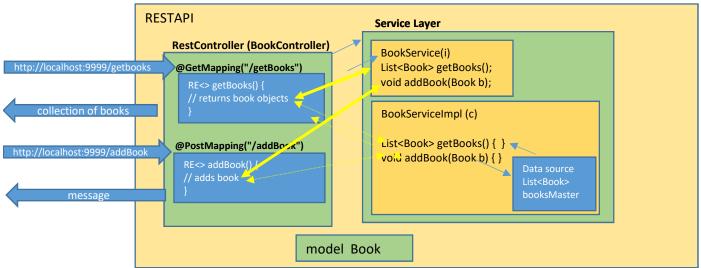
Today 23/12/2022

collection created at controller getbooks request getting records from collection addbook request adding book object into same collection





Controller has service

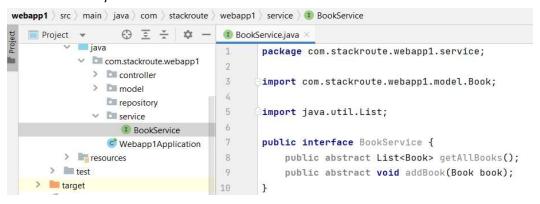


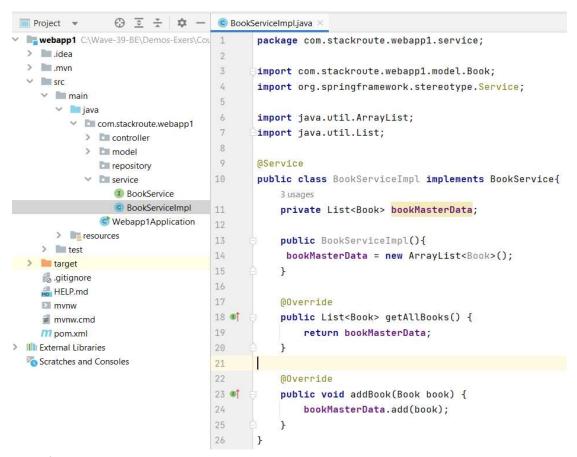
Controller dedicated for handling request should not perform any data operations

one method to return list of book object one method to push received book object into list

List<Book> getBooks (); void addBook(Book book);

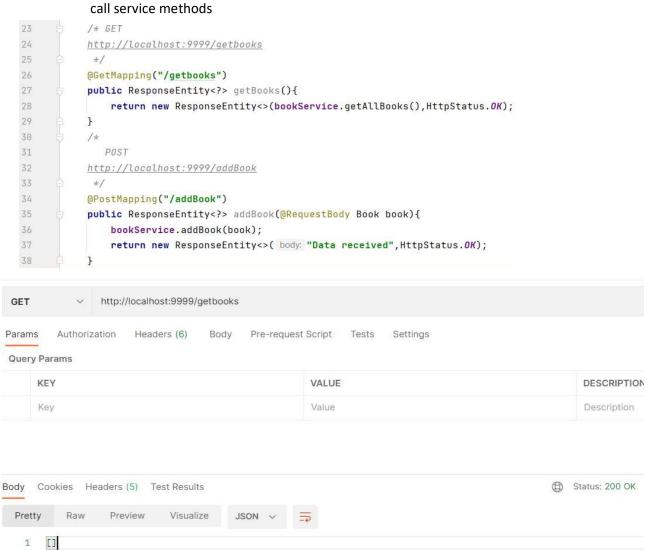
Step 1 create service layer

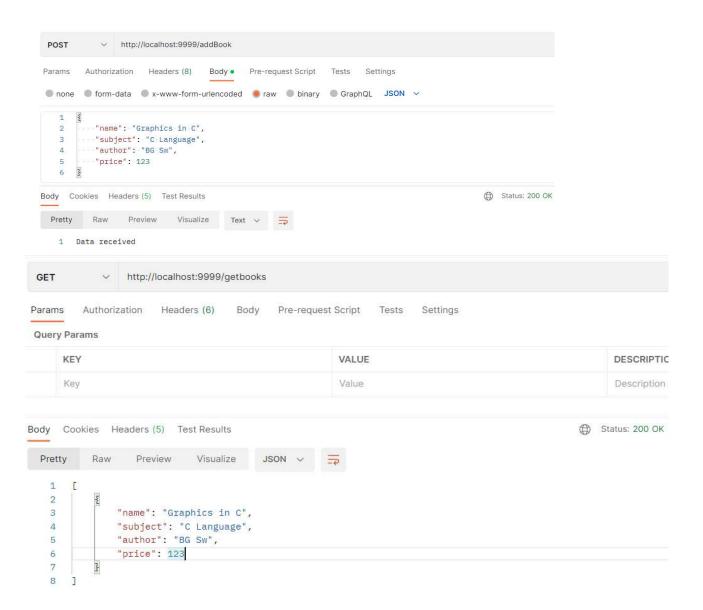




Step 2 Modify controller Note : remove created collection in previous demo inject service into controller

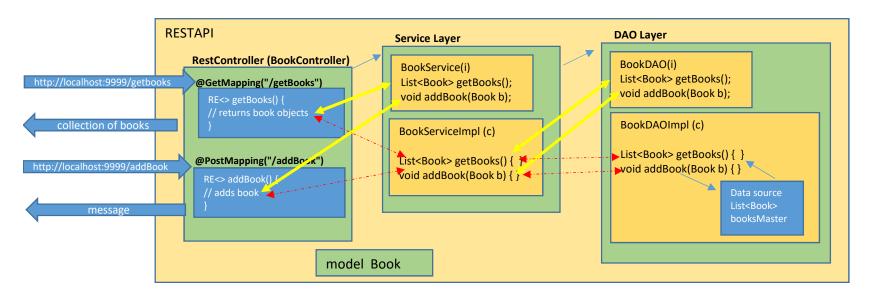
Step 3 edit request handler methods



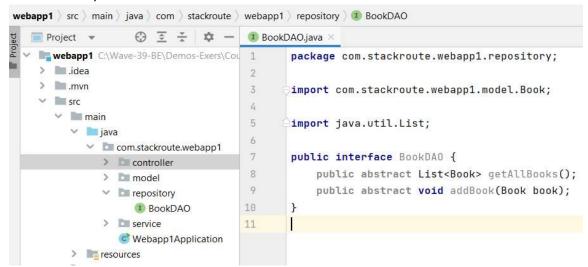


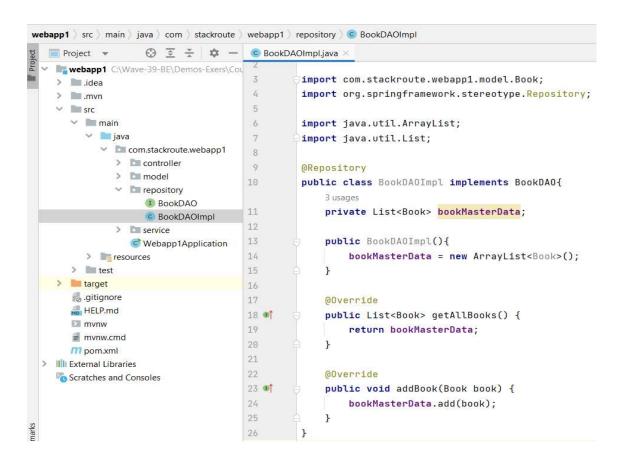
Controller HAS Service

Service HAS DAO



Step 1 Define DAO layer





Step 2 Edit serivce impl class Note: remove collection created in prev demo inject dao dependency

Step 3 edit methods in service impl call dao methods



