



ReadingIsGood is an online books retail firm which operates only on the Internet. Main target of ReadingIsGood is to deliver books from its one **centralized** warehouse to their customers within the same day. That is why stock **consistency** is the first priority for their vision operations.

In this case, we will only consider;

- Registering New Customer
- Placing a new order
- Tracking the stock of books
- List all orders of the customer
- Viewing the order details
- Query Monthly Statistics

Base Requirements:

- Java (min SDK 11), Spring Framework (Spring Boot is more than welcome)
- Relational (H2 could also be an option) / Non-Relational Database (you can use your favorite)
- Restful Endpoints
- Clean Code
- Test (Unit & Integration - min **%50** functionality coverage)
- Documentation (Brief definition about your design. Tech Stack that you used. How to **start** the project. if needed, **credentials** should be included. If there is any assumption, they should be highlighted etc.)
- Containerize - Please containerize your application

Must Have Requirements:

- Customer Controller
 - Will persist new customers
 - Will query all orders of the customer (Paging sounds really nice)
- Book Controller
 - Will persist new book
 - Will update book's stock
- Order Controller
 - Will persist new order (statuses may used)
 - Will update stock records.
(Hint: what if it happens if 2 or more users tries to buy one last book at the same time)
 - Will query order by Id
 - List orders by date interval (startDate - endDate)

- Statistics Controller
 - Will serve customer's monthly order statistics
 - Total Order count
 - Total amount of all purchased orders
 - Total count of purchased books
- That endpoint will supply data for the following ui component

Month	Total Order Count	Total Book Count	Total Purchased Amount
May	2	5	155.43
April	1	3	55.2

- **Validations** - Please be sure your system is error proof.
 - For eg.
 - We are sure that some users would like to buy -1 items
 - They would like to register via the same email again and again
 - if you need any extra, please feel free to add
- **Authentication** - Please secure endpoints (for ex. bearer token)
- **Responses** - Please define success and error response models and use them
- **Postman** - Please prepare Postman request and share with us

Nice to Have's:

- **Logging** - Log all changes on entities. (Which user made specific changes and when)
- **Open API Specification** (Swagger sounds nice) (authentication not needed)

How to Submit:

- You could use your Github, Bitbucket etc account and share link with us (Git usage is a **bonus**)
- You could share it over cloud file sharing platform (we prefer Google Drive)
 - If you want to restrict the access, please express that in the response mail that we could request access over our getir.com mail addresses.
- If you prefer, we could create a private repository in Getir Github Account than grant your access (to achieve this, we need your github account)