

PLUe POS1 - 2025/02/24 - 5EHIF - Service Layer

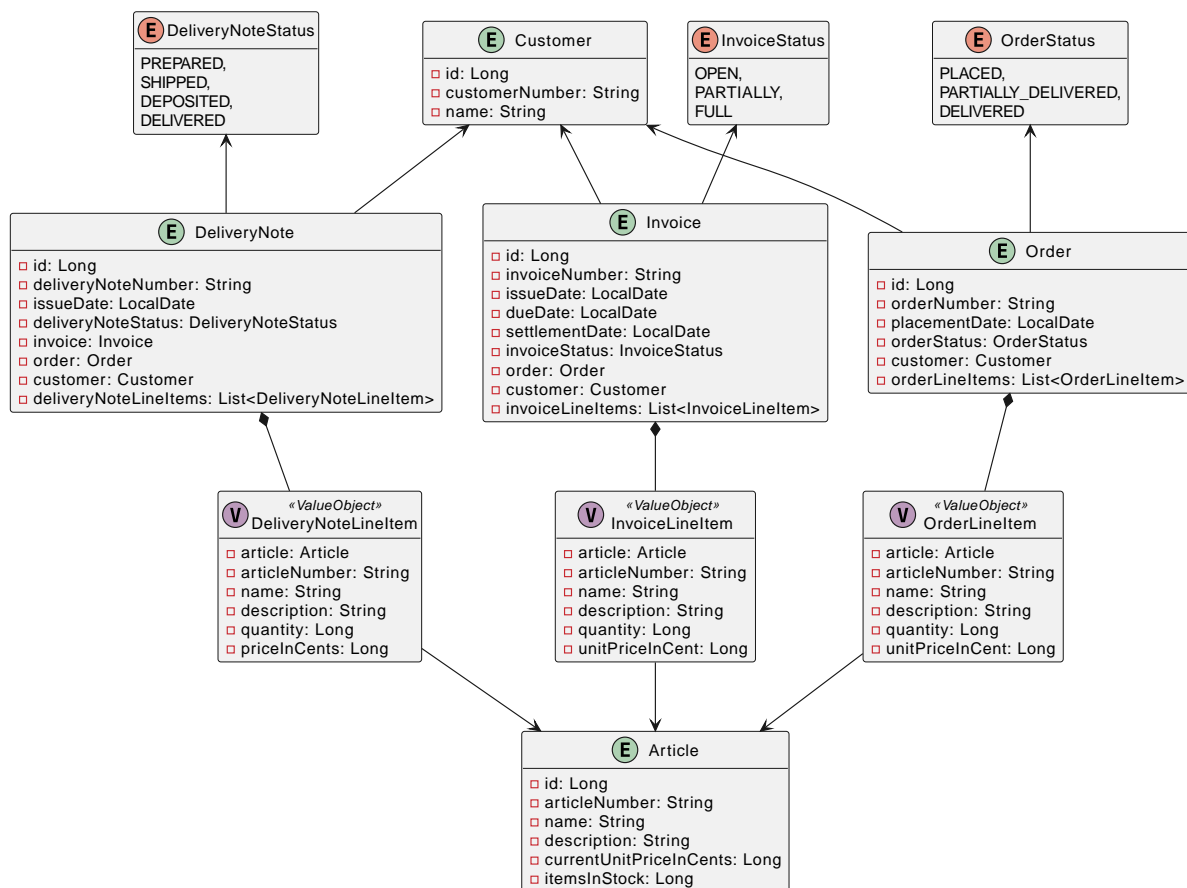
Given the following Domain Model, implement the service method described below! You are provided with the domain classes shown as well as Repository interfaces for the main entities. You may define methods in the repositories to your need to fetch data necessary to fulfil your algorithmic needs!

You probably need to implement data structures (classes or records) to store intermediate or final results!

Ensure your implementation works correctly by writing related test cases.

Do mock your repository invocations to your need!

NOTE There is **NO** persistence layer!
You **should not modify** the pom.xml or **implement anything** related to ORM, SQL, DBs!!!



Method to implement

`OrderService.determineRevenueDerivation(Customer c, LocalDateTime start, LocalDateTime end)`

Find all **Orders** for a given **Customer** and placed within a given time-frame, which have not been delivered completely. Create a report including the **Customer**, detailed **Order** and **Article** information. Create a report showing the calculated revenue difference from the actual **Article** price and the price at the **Order** 's placement time.