

ShopUp Coding Test

Time: 2 hours

An example e-commerce application has following entities:

- Categories
- Products
- Customers
- Orders
- Order details

In a nutshell: Products fall under categories. Customers can buy multiple products in a single order.

Your Task:

Extend the current system to introduce a new feature: **Rating of products.**

Constraints:

Products can be rated in the context of an order only

Implementation Guide:

- Perform the schema changes for incorporating the new feature
- API for rating a product under an order
- API for fetching top categories according to the average rating of products under a particular category
- API for fetching top products under a category according to average rating

You should:

- Dockerize the application
- Use RDBMS; MySQL to be specific
- Use appropriate HTTP methods and status codes
- Track the codebase in a git repository

Nice to have:

- Caching
- Unit test