CODE REVIEW

TRAINEE: RICHMOND KWAME NYARKO

REVIEWER: PATRICK APPIAH

What Went Well

Solid Microservice Design:

Clear separation of concerns across services, which aligns well with microservice best practices.

• Consistent API Responses:

Uniform response structure makes the API predictable and easier for clients to consume.

Proper Use of HTTP Status Codes:

Correct mapping of business outcomes to HTTP status codes enhances clarity and interoperability.

Good Use of Interfaces:

Leveraging interfaces improves testability and supports clean architecture principles.

Effective Use of DTOs and Mappers:

DTOs are well-defined and decouple internal models from external API contracts. Use of mappers (manual or libraries like MapStruct) ensures clean transformations and keeps controllers slim.

Strong Test Coverage:

Excellent effort in writing unit and integration tests. This greatly increases confidence in the system's reliability.

△ Areas for Improvement

Remove Commented-Out Code:

Avoid leaving commented code in the repository. It clutters the codebase and

version control systems already provide history.

• Improve Folder Structure:

Some packages could be better organised to reflect bounded contexts or feature modules, which improves maintainability as the app grows.

Global Exception Handling:

Extend the global exception handlers to catch more cases and return meaningful error responses, so clients have consistent error messages.

Pagination for Large Lists:

Endpoints like getAllRestaurants and getAllOrders should implement pagination. This prevents performance bottlenecks and makes the API scalable.

Suggestions for Future Work

Base Test Class:

Create an abstract base test class for unit and integration tests. This can centralise shared setups like test containers, reducing duplication and easing maintenance.

• Shared Libraries / Modules:

Consider extracting common code (DTOs, exceptions, utility classes, API response wrappers) into shared libraries. This ensures consistency across microservices and reduces duplication.

Overall, excellent work, showing a solid grasp of microservices and clean coding principles. The above points will take it to an even higher standard.

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