**CANDIDATE SELF-EVALUATION**

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| **CANDIDATE NAME** |
| Antony Ezekiel Omeri |
| **DATE OF REVIEW** |
| 7th April 7, 2023 |
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| **Strengths of your work (Achievements)** |
| **Areas of the test you’re confident about** |
| Object-oriented programming and design patterns: I’ve demonstrated a clear understanding of object-oriented programming by creating classes like Wallet, WalletTransaction, and various transaction strategies. I have also used design patterns, such as the Strategy pattern for handling different transaction types |
| Data modeling and persistence: I've effectively used JPA and Hibernate for data modeling and persistence, along with the repository pattern for handling database operations |
| RESTful API design: Your project exposes a clear and easy-to-use RESTful API, with appropriate HTTP methods and endpoints for various wallet and transaction operations. |
| Transactions and concurrency: I have implemented transactional operations and considered concurrency issues, such as optimistic locking, to ensure data consistency in your wallet service. |
| Dependency injection and inversion of control: I've made use of dependency injection and inversion of control (IoC) through the use of components and services, which helps in managing dependencies and improving the testability of the code. |
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| **Areas you believe you could have improved or done better** |
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| API Documentation: Use a standardized API documentation format like OpenAPI Specification to create a more structured and comprehensive documentation. |
| Pagination for transaction history: When fetching wallet transactions, it might be useful to implement pagination to avoid returning a large number of transactions at once. This can improve performance and reduce memory usage, especially when dealing with a high volume of transactions |
| Deployment configuration. The current version of the application only uses H2 memory db. More work is required to make it production ready |
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