Notes
• Shortlisted candidate is **required** to attend a face-to-face interview session in Innovation Centre in HPE regional office in Singapore • Candidate is allowed to use any programming language he/she is familiar with • Candidate is allowed to use any libraries/application framework(s) as part of the solution • Candidate is allowed to make any assumption in designing the solution. Be reasonable with your assumption • This technical test is **not** to develop a full-scale working solution, it is more to proof-of-concept for demonstration of implementation feasibility and practicality • The result may or may not be complete. It is highly up to candidate to decide how much effort or time they can put in for the completion of the test

Requirements

1. Based on micro services architecture, design and implement an ecommerce-based solution, any ecommerce-based store/application
2. The solution is capable to handle at least **ONE** of below:
   a. 2500 HTTP request per second
   b. 2500 records transaction per second

   Note: 2500 is demarcation point on how close or how far to hit the target. No fix rule.

Overall Solution Design

Choose **ONE** from below:

a. Develop an application for the requirements above. Focus on the core modules in your solution. You are allowed to make any appropriate assumption.

   Example: Persistent storage is not a core module in the solution. You can make assumption that persistent storage is always hosted on cloud, and this will complete the story in solution design if persistent storage is required in your design

b. Prepare a software solution/conceptual design for the requirements above.

Expectations/deliverables

1. If you choose option A
   - Demonstrate how to build, run, and deploy your application. Walk thru the end-to-end flow. Unit test is optional
   - Use docker for deployment, if possible
2. If you choose option B
   - Save the design in a power point slide
   - Focus on application implementation. Demonstrate, and explain your solution implementation
3. Result should be hosted in Git repository, either hosted on public GitHub or local git repository. This is mandatory for both option A and B
4. Propose future enhancement(s) on the current solution
5. Explain the implemented algorithm if there is any