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| International School  SE-MIS Program | **Assignment 2b**  **CMU-SE 403 Software Architecture & Design**  Fall – 2023-2024  Duration: 2 hours / Date: 17-Nov, 2024 |
| **Score** | **Student Name:**  **Student ID:** |

1. Identify 01 Scalability, 01 Performance, and 01 Security scenarios that you think would be necessary for a widely used website, such as Shopee, Lazada, and MyDTU (use a six-part scenario template) (40 points)
2. Select 01 of the 3 questions below answer that question in detail and give an example.(30 points)
   1. How does Security trade-off against Performance? How would you change a system that is required to have strong security?
   2. [How might availability trade-off against cost-effectiveness?](https://link.springer.com/article/10.1007/s11219-019-09478-x)
   3. How might usability trade-off against security?
3. Consider the student database at Duy Tan University. (30 points)  
   1. Identify two kinds of sensitive data or other resources in the system.  
   2. Determine the possible attackers, their motivations, and their resources.

Solutions: