

## LOG8430 - Revision - Architecture Quality

1. We are looking for a financial system that monitors investments. The requirements are well defined. The system needs to be available 100% of the time. Our clients are our priority, their data need to remain private and we need to maintain their integrity. What architectural style would you choose and why?

- ☐ AOA, because the priorities are functional correctness, security and reliability
- ☐ CBA, because the priorities are usability, performance and maintainability
- ☐ CBA, because the priorities are functional correctness, security and reliability

2. We are looking for a smart assistance system with the ability to understand and produce natural language. We will use multiple tools that already exist. As an innovative project, we can expect a lot of changes. What architectural style would you choose and why?

- ☐ SOA, because the priorities are portability, usability and reliability
- ☐ CBA, because the priorities are portability, security and functional suitability

- ☐ SOA, because the priorities are functional suitability, maintainability and compatibility.

3. We are looking for a system to monitor the environmental conditions of buildings. The system will notify the building manager in real time if there are problems. The system should function for any building and it should be integrated with existing equipment. What architectural style would you choose and why?

- ☐ EDA, because the priorities are performance, portability and compatibility
- ☐ EDA, because the priorities are usability, reliability and performance
- ☐ SOA, because the priorities are functional suitability, portability and compatibility.

4. We are looking for a system for an autonomic vehicle. The system will monitor the vehicle at all times and it cannot make errors. The security of the passengers is of utmost importance. The system should function for any vehicle. What architectural style would you choose and why?

- ☐ CBA, because the priorities are functional suitability, security, reliability and compatibility
- ☐ AOA, because the priorities are functional suitability, maintainability, compatibility and usability

- ☐ AOA, because the priorities are performance, reliability, security and portability.

5. We are looking for a flight simulator. The system should have a simple interface, clear and concise to train pilots. It should be adaptive and easy to change in order to accommodate multiple scenarios in the future. It should avoid errors to ensure the proper training of the pilots. What architectural style would you choose and why?

- ☐ MDA, because the priorities are usability, maintainability and reliability
- ☐ EDA, because the priorities are performance, functional suitability and usability
- ☐ MDA, because the priorities are functional suitability, compatibility and maintainability

Done

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