

**National College of Ireland**

**BSC (Honours) in Computing - Full-time - Year 4**

# **Repeat Terminal Based Assessment Assignment – Jan 2023 Completed by 06 January 2023**

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**Distributed Systems Project Report**

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***Introduction***

***Service Definitions***

***Service Implementation***

***Naming Services***

***Remote Error Handling***

***Client - Graphical User Interface***

***Client Bloom Rpc***

***Server***

***Conclusion***

## Section B – Related Questions (24%)

From this section, please implement or answer **any 2 of the following questions**

**Q1:** Explain the MQTT broker architecture with an example.

**[12 marks]**

**Q2:** Explain and illustrate the sequence of events during a remote procedure call?

**[12 marks]**

**Q3:** How to choose between CP (consistency) and AP (availability)? Discuss the criteria/ requirements for different types of applications.

**[12 marks]**