**Software Development Lifecycles (Advocate: Thiago Viana)**

**Describe two iterative and two sequential software lifecycle models.**

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| Please provide a short (between 3 to 8 well considered, fully proofread and reflected sentences) explanation that justifies why the evidence/links you have provided is suitable as evidence of this requirement |

**Explain how risk is managed in the Spiral lifecycle model.**

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**Explain the purpose of a feasibility report.**

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**Describe how technical solutions can be compared.**

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**Undertake a software investigation to meet a business need.**

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**Use appropriate software analysis tools/techniques to carry out a software investigation and create supporting documentation.**

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**Explain how user and software requirements have been addressed.**

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**Describe, with an example, why a particular lifecycle model is selected for a development environment.**

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**Discuss the components of a feasibility report.**

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**Analyse how software requirements can be traced throughout the software lifecycle.**

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**Discuss two approaches to improving software quality.**

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**Suggest two software behavioural specification methods and illustrate their use with an example.**

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**Differentiate between a finite state machine (FSM) and an extended- FSM, providing an application for both.**

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**Assess the merits of applying the Waterfall lifecycle model to a large software development project.**

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**Assess the impact of different feasibility criteria on a software investigation.**

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**Critically evaluate how the use of the function design paradigm in the software development lifecycle can improve software quality.**

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**Present justifications of how data driven software can improve the reliability and effectiveness of software.**

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