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

**P1. Describe two iterative and two sequential software lifecycle models.**

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| <https://github.com/Oliver-Slape/Software-Development-and-Life-Cycle#sequential> |
| The link leads to two sections, Iterative and Sequential that both have two lifecycles. |

**P2. Explain how risk is managed in the Spiral lifecycle model.**

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| <https://github.com/Oliver-Slape/Software-Development-and-Life-Cycle/blob/master/README.md#how-is-risk-managed-in-the-spiral-model> |
| The link leads to the section where risk is explained in the Spiral lifecycle model. |

**P3. Explain the purpose of a feasibility report.**

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| <https://github.com/Oliver-Slape/Software-Development-and-Life-Cycle#feasibility-report> |
| The link leads to the section where a Feasibility report is explained with its purpose. |

**P4. Describe how technical solutions can be compared.**

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| <https://github.com/Oliver-Slape/Software-Development-and-Life-Cycle/blob/master/README.md#technical-solutions-comparison> |
| The link leads to the section where technical solutions are described and how they can be compared. |

**P5. Undertake a software investigation to meet a business need.**

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| <https://github.com/Oliver-Slape/Software-Investigation/blob/master/README.md#software-investigation> |
| The link leads to the Software investigation to meet a business need. |

**P6. Use appropriate software analysis tools/techniques to carry out a software investigation and create supporting documentation.**

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| <https://github.com/Oliver-Slape/Software-Investigation/blob/master/README.md#software-investigation-1>  Supporting Docs  <https://github.com/Oliver-Slape/ZSL#zsl>  <https://github.com/Oliver-Slape/ZSL/blob/master/Presentation.md#presentation>  <https://github.com/Oliver-Slape/ZSL#schedule> |
| The first link leads to the Tools and Techniques. The 2nd link and onwards lead to supporting documentation. |

**P7. Explain how user and software requirements have been addressed.**

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| <https://github.com/Oliver-Slape/Software-Investigation/blob/master/README.md#meeting-requirements>  Requirements:  <https://github.com/Oliver-Slape/Software-Investigation/blob/master/README.md#user-requirements>  Meeting Requirements;  <https://github.com/Oliver-Slape/ZSL/blob/master/Meetingrequirements.md#how-have-requirements-been-met> |
| The first link leads to how we meet requirements. The second link leads to the user and software requirements. The third link explains how they have been met. |

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

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| Please use this section to provide all appropriate, valid and checked http Links that point to your evidence; use multiple lines to separate multiple links |
| 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 |

**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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| 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 |