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

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

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| <https://github.com/HORNETJOE/lifecycle-models/blob/master/README.md#lifecycle-models> |
| The link above will direct to a page which contains 5 different lifecycle models and a short description and advantages and disadvantage of each. |

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

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| <https://github.com/HORNETJOE/lifecycle-models/blob/master/README.md#40-spiral> |
| The link above will direct to the Spiral lifecycle model in the lifecycle model repository |

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

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| <https://github.com/HORNETJOE/Glossary-of-tech-terms/blob/master/README.md#feasibility-report> |
| The link above will direct to the glossary of tech terms which contains the definition of a feasibility report |

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

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| <https://github.com/HORNETJOE/ZSL-The-Climate-Menace/blob/master/README.md#how-can-technical-solutions-be-compared> |
| The link above will direct to the technical solutions sub heading which explains in terms of the ZSL project what technical solutions is and how they are compared.0 |

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

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| <https://github.com/HORNETJOE/ZSL-The-Climate-Menace#introduction>  <https://github.com/HORNETJOE/ZSL-The-Climate-Menace#concept> |
| The links above will direct to the introduction of the ZSL page as well as the tools used during the ZSL project and the concept of the ZSL project as well. |

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

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| <https://github.com/HORNETJOE/ZSL-The-Climate-Menace/blob/master/README.md#client-meetup>  <https://github.com/HORNETJOE/ZSL-The-Climate-Menace/blob/master/The%20climate%20menace%20complete.pptx> |
| The links above will direct to the client meet up information as well as communication with ZSL. |

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

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| <https://github.com/HORNETJOE/Glossary-of-tech-terms/blob/master/README.md#addressing-user-requirments-using-epics-stories-versions-and-sprints> |
| The first link is an explanation of users stories and the second link is an example. |

**M1 Describe, with an example, why a particular lifecycle model is selected for a development environment.**

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| <https://github.com/HORNETJOE/lifecycle-models> |
| 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 |

**M2 Discuss the components of a feasibility report.**

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| <https://github.com/HORNETJOE/Glossary-of-tech-terms/blob/master/README.md#feasibility-report> |
| The link above will direct to the glossary of tech terms which contains the components of a feasibility report |

**M3 Analyse how software requirements can be traced throughout the software lifecycle.**

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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 |

**M4 Discuss two approaches to improving software quality.**

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| <https://github.com/HORNETJOE/Capability-Maturity-Model-CMM-/blob/master/README.md> |
| 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 |

**M5 Suggest two software behavioural specification methods and illustrate their use with an example.**

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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 |

**M6 Differentiate between a finite state machine (FSM) and an extended- FSM, providing an application for both.**

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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 |

**D1 Assess the merits of applying the Waterfall lifecycle model to a large software development project.**

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| <https://github.com/HORNETJOE/lifecycle-models> |
| 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 |

**D2 Assess the impact of different feasibility criteria on a software investigation.**

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| <https://github.com/HORNETJOE/Spiral-lifecycle-model-and-feasibility-report> |
| 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 |

**D3 Critically evaluate how the use of the function design paradigm in the software development lifecycle can improve software quality.**

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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 |

**D4 Present justifications of how data driven software can improve the reliability and effectiveness of software.**

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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 |