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

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

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| <https://github.com/SDearing/Software_Development_Lifecycles/tree/master> |
| In this document is the different software development lifecycles, with a description, advantages and disadvantages for each one. Waterfall and V-model being the sequential lifecycles and evolutionary and spiral model being the iterative models. |

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

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| <https://github.com/SDearing/Software_Development_Lifecycles#how-risk-is-assessed-in-the-spiral-lifecycle> |
| I explain how risks are managed in the spiral lifecycle model in this document under the header **How Risk is Assessed in the Spiral Lifecycle**, in the **The Spiral Lifecycle** Section of the document. |

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

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| <https://github.com/SDearing/The_Purpose_of_a_Feasibility_Report> |
| The first paragraph in this document explains the purpose of a feasibility report and the components that make up a feasibility report. |

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

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| <https://github.com/SDearing/Glossary-of-Tech-Terms#how-technical-solutions-can-be-compared> |
| In this document under the header **How Technical Solutions Can Be Compared** I list the different factors that are considered when analysing different technical solutions. |

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

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| <https://github.com/SDearing/ZSL-The-Climate-Menace#project-definition-1>  <https://github.com/SDearing/ZSL-The-Climate-Menace/blob/master/README.md#overall-aims-and-objectives>  <https://github.com/SDearing/ZSL-The-Climate-Menace/blob/master/README.md#specification>  <https://github.com/SDearing/ZSL-The-Climate-Menace/blob/master/README.md#schedule>  <https://github.com/SDearing/ZSL-The-Climate-Menace/blob/master/ZSL-climate-change-concept-pitch.pptx> |
| In this document is the information about the work we did with ZSL and how we were tasked with developing an app for them. There is more information in the document about when we met with the client and the different milestones of the project. The project and business are described further under the header **Project Definition** in the document.  The first link leads to the project definition, the second link leads to the aims and objectives of the project, the third link leads to a specification of our project and the fourth link leads to the schedule of the milestones of the project which includes meetings with our business client. The final link is to our concept pitch presentation, which we used when presenting our pitch to the client. |

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

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| <https://github.com/SDearing/ZSL-The-Climate-Menace#tools-and-techniques-needed-for-the-project> |
| In the **Project Backlog** section of the readme document, under the header **Tools and Techniques Needed for the Project** I list the tools and techniques that we used to complete the project. |

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

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| <https://github.com/SDearing/Glossary-of-Tech-Terms#how-to-address-software-requirements-in-projects>  <https://github.com/SDearing/ZSL-The-Climate-Menace/blob/master/README.md#how-software-and-user-requirements-have-been-addressed>  <https://github.com/SDearing/ZSL-The-Climate-Menace/blob/master/README.md#overall-aims-and-objectives> |
| The first link leads to a description of the SCRUM model, which is used to plan out software requirements.  In the second link leads to how I addressed user and software requirements in my ZSL project, and details about sprints my group conducted to complete the requirements. The requirements of my ZSL project are in the third link. |

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

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

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| <https://github.com/SDearing/The_Purpose_of_a_Feasibility_Report#the-components-of-a-feasibility-report> |
| In this link I discuss the common 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  TBD |

**M4 Discuss two approaches to improving 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  TBD |

**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  TBD |

**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  TBD |

**M7 Assess the merits of applying the Waterfall lifecycle model to a large software development project.**

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**D1 Assess the impact of different feasibility criteria on a software investigation.**

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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 |
| TBD |

**D2 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  TBD |

**D3 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  TBD |