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

**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. |

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

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| <https://github.com/SDearing/Software_Development_Lifecycles> |
| 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. |

**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. |

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

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

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

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| <https://github.com/SDearing/ZSL-The-Climate-Menace> |
| In this document is the information about the work we did with ZSL and how we were tasked with developing a 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. |

**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> |
| 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. |

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

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| <https://github.com/SDearing/Project-02>  <https://github.com/SDearing/Project-03> |
| At the beginning of each project I explain how I have addressed the user and software requirements of each project. (See under **Decomposition of aims** and **Specifications**) |

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

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| <https://github.com/SDearing/Software_Development_Lifecycles> |
| TBD |

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

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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 |

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

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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  TO DO (you can leave it blank now, we are going to address this un future sessions) |

**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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| 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 |

**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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| <https://github.com/SDearing/Software_Development_Lifecycles> |
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**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 |

**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  TBD |