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

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

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| **Link:** [**https://github.com/LukeShead/Software-Development-Models**](https://github.com/LukeShead/Software-Development-Models) |
| On this link I believe it justifies passing the criteria as it shows that I have described 4 different software lifecycles with the Waterfall, Spiral, Evolutionary and RAD. These show two different iterative and sequential software lifecycle models. |

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

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| **Link:** <https://github.com/LukeShead/Software-Development-Models/blob/master/README.md#how-risks-are-managed-with-the-spiral-model> |
| On this link I believe it justifies passing the criteria as it shows how the spiral model works and how the process of following the spiral can help and be effective when assessing and managing risk. |

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

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| Link: <https://github.com/LukeShead/Feasibility-Reports> |
| On this link I believe it justifies passing the criteria as it clearly describes and explains what a feasibility report’s purpose is and how it helps with pitching and designing a project. |

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

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| Link: <https://github.com/LukeShead/How-Technical-solutions-can-be-compared/blob/master/README.md#how-technical-solutions-can-be-compared> |
| On this link I believe it justifies passing the criteria as it clearly shows how technical solutions are compared given a chosen problem. |

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

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| **Link:** <https://github.com/LukeShead/ZSL-The-Climate-Menace/blob/master/README.md#meeting-the-clients-needs-with-software> |
| On this link I believe it justifies passing the criteria as it shows how the team worked to investigate different types of software in order to allow us to meet the clients needs. |

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

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| Link: <https://github.com/LukeShead/ZSL-The-Climate-Menace/blob/master/README.md#tools> |
| On this link I believe it justifies passing the criteria as it shows what types of software and tools I used to carry out the software investigation. It explains the use of PowerPoint as well as other tools that helped us carry out the investigation. |

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

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| **Link:** <https://github.com/LukeShead/ZSL-The-Climate-Menace/blob/master/README.md#user-stories> |
| On this link I believe it justifies passing the criteria as it explains how the process of using epics and stories allowed us to address the requirements of both user and software by splitting them into different tasks. |

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

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| **Link:** [**https://github.com/LukeShead/Software-Development-Models/blob/master/README.md**](https://github.com/LukeShead/Software-Development-Models/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 |

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

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| Link: <https://github.com/LukeShead/Feasibility-Reports> |
| 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 |

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

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| **Link:** [**https://github.com/LukeShead/Software-Development-Models/blob/master/README.md**](https://github.com/LukeShead/Software-Development-Models/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 |

**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 |
| To be Completed |

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

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

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

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| **Link:** <https://github.com/LukeShead/Software-Development-Models#the-first-is-the-waterfall-cycle> |
| 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 |

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

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| Link: <https://github.com/LukeShead/Feasibility-Reports> |
| 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 |

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

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