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

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

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| <https://github.com/kap14275819/Lifecycle-Models/blob/master/README.md#v-modelsequential>  <https://github.com/kap14275819/Lifecycle-Models/blob/master/README.md#waterfall-modelsequential>  <https://github.com/kap14275819/Lifecycle-Models/blob/master/README.md#evolutionary-modeliterative>  <https://github.com/kap14275819/Lifecycle-Models/blob/master/README.md#prototype-modeliterative> |
| In this link it will show the two iterative and two sequential software lifecycle models. |

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

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| <https://github.com/kap14275819/Lifecycle-Models/blob/master/README.md#risks> |
| In this link it will show the Spiral lifecycle model and how risk is managed within this lifecycle model. |

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

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| <https://github.com/kap14275819/Lifecycle-Models/blob/master/README.md#feasibility-report> |
| In this link it will explain the purpose of the feasibility report and what is within a feasibility report |

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

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| <https://github.com/kap14275819/Lifecycle-Models/blob/master/README.md#how-can-technical-solutions-be-compared> |
| In this link it will show how technical solutions can be compared based on the factors within the link. |

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

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| <https://github.com/kap14275819/ZSL#introduction>  <https://github.com/kap14275819/ZSL#project-management-documentation>  <https://github.com/kap14275819/ZSL#tools-and-techniques>  <https://github.com/kap14275819/ZSL/blob/master/README.md#software-investigation> |
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**P6 Use appropriate software analysis tools/techniques to carry out a software investigation and create supporting documentation.**

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| <https://github.com/kap14275819/ZSL#tools-and-techniques> |
| 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 |

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

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| <https://github.com/kap14275819/Traceball-Project-1/blob/master/README.md#epics-and-user-stories> |
| In the link it shows the software requirements(Epics) that have been addressed in project 1. This explains how I broke down the core requirements into Epics to make it easier to understand each requirement that was shown to me but simplified. This allowed the me to handle the project much easier as the Epics were a step by step guide to help what task I must do next. In this link also it will show the user stories that I had made after going through the Epics and requirements. |

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

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| <https://github.com/kap14275819/Lifecycle-Models/blob/master/README.md#lifecycle-models> |
| In this link it describes why a particular lifecycle model is selected for a development environment. |

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

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| <https://github.com/kap14275819/Lifecycle-Models/blob/master/README.md#feasibility-report> |
| In this link it show the components of a feasibility report. |

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

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| To be completed |
| 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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| <https://github.com/kap14275819/Lifecycle-Models/blob/master/README.md#cmm> |
| In this link it shows what is CMM and the five maturity levels of CMM. |

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

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| To be completed |
| 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 |

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

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| To be completed |
| 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 merits of applying the Waterfall lifecycle model to a large software development project.**

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| <https://github.com/kap14275819/Lifecycle-Models/blob/master/README.md#waterfall-model> |
| In this link it shows the advantages of applying the waterfall lifecycle model to a large software development project. |

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

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| To be completed |
| 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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| To be completed |
| 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 |

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

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| To be completed |
| 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 |