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

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

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| Link: <https://github.com/matthewsides/SDCL-Methodologies/blob/master/README.md> |
| The evidence is situated under the heading “SDLC Methodologies” in the README.md for the GitHub repository (SDLC Methodologies).  This evidence is applicable as it covers iterative and sequential software life cycle models, how each model works, advantages, disadvantages and examples of what software may benefit from each specific lifecycle. |

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

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| Link: https://github.com/matthewsides/SDCL-Methodologies/edit/master/README.md |
| The repository "SDCL-Methodologies" holds all the evidence relating to the above criteria and is applicable as it explains in brief how risk is managed in the spiral lifecycle model. |

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

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| Link: https://github.com/matthewsides/Thiago-Viana-Tasks/blob/master/Feasibility-Reports.md |
| The evidence is provided in the repository "Feasibility Reports", and is applicable as it defines feasibility reports, explains the components and the purpose which is in line with the criteria. |

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

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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  Link to your TASK 4 in my sessions:  **Simple report,** research and describe how technical solutions can be compared.  Also, you can use your ZSL project and explain how did you choose your IDEs, the programming language, and other stuff that you have used in this project. How to compare those options? |

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

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| Link: https://github.com/matthewsides/ZSL-Green-House-Menace |
| 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  You did this in the ZSL project. You need to describe how and when you met with the client. How you wrote the requirements, how and why you changed your project specifications and add a link to your ZSL repo. |

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

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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  You did this in the ZSL project. You need to describe how and when you met with the client. How you wrote the requirements, how and why you changed your project specifications and add a link to your ZSL repo.  In this project you probably used these tools: Text Editor, Presentation Editor (slides), Image Editor (to the assets and prototypes in your project), UNIT (and others IDEs), other tools.  Also, in this project you probably used these techniques: Interviews with the client, Prototyping (for your APP). You should write and add links to your ZSL documentation. |

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

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| Links: https://github.com/matthewsides/Project01-TraceBall/blob/master/README.md |
| The evidence may be found in two links with the README.mds of the repositorys linked meeting the criteria as the requirements, epics and user stories are all covered and addressed in the documentation. |

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

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| Link: https://github.com/matthewsides/SDCL-Methodologies |
| The evidence can be found in the "SDCL-Methodologies", which covers and goes into in-depth research one each lifecycle, noting the advantages, disadvantages, how it works and examples. |

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

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| Link: https://github.com/matthewsides/Feasibility-Reports/blob/master/README.md |
| The evidence can be found in the repository "Feasibility-Reports" on GitHub, whilst the evidence in the README.md is suitable to the criteria as it explains the purpose linking into the other criteria mapped above, as well as the components and lastly impact. |

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

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

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| Link: https://github.com/matthewsides/CMM/blob/master/README.md |
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**Suggest two software behavioural specification methods and illustrate their use with an example.**

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**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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| Link: https://github.com/matthewsides/SDCL-Methodologies |
| The evidence can be found in the "SDCL-Methodologies" repository and constitutes as meeting the criteria as it explains how the life cycle works, advantages and disadvantages with examples. |

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

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| Link: https://github.com/matthewsides/Feasibility-Reports/blob/master/README.md |
| This evidence is applicable to the criteria as it assesses the impact of different feasibility criteria in relation to a software investigation. The evidence may be found under the heading "Impact of different feasibility criteria" in the README.md. |

**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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