**Software Development Lifecycles (Advocate: Shujaat Shah)**

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

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| <https://github.com/ibrahimwaheed/SDLC/blob/master/Sequential%20and%20Iterative.md#sequential>  <https://github.com/ibrahimwaheed/SDLC/blob/master/Sequential%20and%20Iterative.md#iterative> |
| Met the criteria as 2 different iterative SDLC’s and 2 Sequential SDLC’s were described. The benefits and drawbacks of each model was discussed. In depth analysis of each phase in the models. |

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

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| <https://github.com/ibrahimwaheed/SDLC/blob/master/Sequential%20and%20Iterative.md#risk-manangement-in-spiral-model> |
| What the spiral model is discussed. What distinguishes it from the others. How the risks are managed and averted. |

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

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| <https://github.com/ibrahimwaheed/SDLC/blob/master/Purpose%20of%20a%20Feasibility%20Report.md#purpose-of-a-feasibility--report> |
| What purpose is of a feasibility report. How they affect businesses. Talks about the factors that effect them. |

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

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| <https://github.com/ibrahimwaheed/SDLC/blob/master/Purpose%20of%20a%20Feasibility%20Report.md#how-technical-solutions-can-be-compared> |
| What types of comparisons there are for technical solutions. How they affect the business elaborated on. |

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

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| <https://github.com/ibrahimwaheed/SDLC/blob/master/Bazil/README.md#bazil> |
| Investigated what the user requirements were. Target audience was identified. Budgets were considered. |

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

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| <https://github.com/ibrahimwaheed/SDLC/blob/master/Bazil/README.md#iv-technical-details>  <https://github.com/ibrahimwaheed/SDLC/blob/master/Bazil/README.md#vi-research> |
| Research was carried out. Platform that was to be used was described. The problems that would be faced were addressed. |

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

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| <https://github.com/ibrahimwaheed/SDLC/blob/master/Bazil/README.md#iv-technical-details>  <https://github.com/ibrahimwaheed/SDLC/blob/master/Bazil/README.md#ii-epics-and-user-stories>  <https://github.com/ibrahimwaheed/SDLC/blob/master/Bazil/README.md#user-persona> |
| Epics were created showing what functionalities users would like. How the product would be made was mentioned. User persona created to show the target audience that was to be attracted. |

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

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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 |

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

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**M3 Analyse how software requirements can be traced throughout the software lifecycle.**

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**M4 Discuss two approaches to improving software quality.**

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**M5 Suggest two software behavioural specification methods and illustrate their use with an example.**

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**M6 Differentiate between a finite state machine (FSM) and an extended- FSM, providing an application for both.**

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**D1 Assess the merits of applying the Waterfall lifecycle model to a large software development project.**

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**D2 Assess the impact of different feasibility criteria on a software investigation.**

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**D3 Critically evaluate how the use of the function design paradigm in the software development lifecycle can improve software quality.**

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**D4 Present justifications of how data driven software can improve the reliability and effectiveness of software.**

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