**Section: Project Management (Advocate: Mike Watkins)**

**P1 Devise project aims and objectives for a chosen scenario.**

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| Link: <https://github.com/matthewsides/ZSL-Green-House-Menace/blob/master/README.md#13-overview>  <https://github.com/matthewsides/ZSL-Green-House-Menace/blob/master/README.md#16-aims-and-objectives> |
| This may be evidenced in three sections of the ZSL repository, the first being under the “overview” heading, stating the background behind said project, with the second piece of evidence being under the heading “Aims and Objectives” stating the aims and objectives of the project. |

**P2 Produce a project management plan that covers aspects of cost, scope, time, quality, communication, risk and resources.**

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| Link: <https://github.com/matthewsides/ZSL-Green-House-Menace/blob/master/README.md#12-scope>  <https://github.com/matthewsides/ZSL-Green-House-Menace/blob/master/README.md#14-project-management>  <https://github.com/matthewsides/ZSL-Green-House-Menace/blob/master/README.md#17-costs>  <https://github.com/matthewsides/ZSL-Green-House-Menace/blob/master/README.md#18-quality-assurance-preface>  <https://github.com/matthewsides/ZSL-Green-House-Menace/blob/master/README.md#19-time-gantt-chart> <https://github.com/matthewsides/ZSL-Green-House-Menace/blob/master/README.md#191-communication>  <https://github.com/matthewsides/ZSL-Green-House-Menace/blob/master/README.md#192-risks>  [https://github.com/matthewsides/ZSL-Green-House-Menace/blob/master/README.md#193-resources](https://github.com/matthewsides/ZSL-Green-House-Menace/blob/master/README.md%23193-resources) |
| This is evidenced in the repository for ZSL, in the README.md. The following linked evidence meets the criteria as the cost, scope, time, quality, communication, risk and resources are all covered. |

**P3 Produce a work breakdown structure and a Gantt chart to provide timeframes and stages for completion.**

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| Link: <https://github.com/matthewsides/ZSL-Green-House-Menace/blob/master/README.md#19-time-gantt-chart> <https://github.com/matthewsides/ZSL-Green-House-Menace/blob/master/README.md#196-project-backlog> |
| The evidence for this criteria can be found in the "ZSL" repository under the sub heading “time” presenting a project backlog as well as detailing how said schedule was formed and reasoning.  Moreover, further evidence may be seen under the heading "project backlog" providing or showing a structural breakdown of the work between group members, including time allocated and whether it was completed in that time frame. |

**P4 Carry out small-scale research by applying qualitative and quantitative research methods appropriate for meeting project aims and objectives.**

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| Link: <https://github.com/matthewsides/Research-Software-Vulnerabilities/blob/master/README.md#1-introduction>  <https://github.com/matthewsides/Research-Software-Vulnerabilities/blob/master/README.md#1-introduction-1>  <https://github.com/matthewsides/Asteroids-Odyssey-/blob/master/README.md#14-aims-and-objectives> |
| The evidence for this criteria or the application of qualitative research methods may be seen through the case study’s in the secondary report. Whilst other research methods or designs such as the descriptive design, which emphases observation was applied in the primary research. The methods simple random sample (qualitative and quantitative) and Haphazard sampling (qualitative and quantitative) were also used via the implementation of a specifically designed questionnaire. Whilst in the introduction section to both it is briefly stated that this research meets projects aims and objectives and what the information is going to be used for (lowering the probability of vulnerabilities in the application). |

**P5 Analyse research and data using appropriate tools and techniques.**

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| Link: <https://github.com/matthewsides/Research-Software-Vulnerabilities/blob/master/README.md#1-introduction-1>  <https://github.com/matthewsides/Research-Software-Vulnerabilities/blob/master/README.md#3-analysis> |
| The evidence for this criteria can be found on the “research software vulnerabilities report” under or in the primary report. This constitutes as evidence as the tools and techniques used to analyse data are listed; Data Cleansing (amends or removes all the inaccurate data), Tables (better structures the data for analysis), Graphs (Used to illustrate and represent figures, for comparison and analyse of the data), excel spreadsheet (all the data is collated on an excel spreadsheet to better structure the work and be a median to hold the data). |

**P6 Communicate appropriate recommendations as a result of research and data analysis to draw valid and meaningful conclusions.**

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| Link: <https://github.com/matthewsides/Research-Software-Vulnerabilities/blob/master/README.md#4-conclusion>  <https://github.com/matthewsides/Research-Software-Vulnerabilities/blob/master/README.md#6-conclusion> |
| The evidence provided is under both the primary report and secondary report. This constitutes as meeting the criteria as the evidence provided in the secondary report draws upon what the organisations in the case studies could have done to prevent or alleviate the situations caused by vulnerabilities. Whilst in the primary report it is more generalised (utilising both the secondary and primary information) to what should or could be done in a project (linking/ set to be used for the capstone project), proposing possible recommendations to mitigate or prevent vulnerabilities appearing / occurring. |

**P7 Reflect on the value of undertaking the research to meet stated objectives and own learning and performance.**

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| Link: <https://github.com/matthewsides/Research-Software-Vulnerabilities/blob/master/README.md#5-self-reflection> |
| The evidence for this criteria may be found in the primary research report and meets the given criteria as it’s reflects on the value of undertaking research, whilst also expanding upon possible ideas to implement or where could be improved upon when undertaking a similar or another research project in the future. |

**M1 Produce a comprehensive project management plan, milestone schedule and project schedule for monitoring and completing the aims and objectives of the project.**

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| Link: <https://github.com/matthewsides/ZSL-Green-House-Menace/blob/master/README.md#19-time-gantt-chart> <https://github.com/matthewsides/ZSL-Green-House-Menace/blob/master/README.md#196-project-backlog> |
| This is evidenced under the "project backlog" heading and in the Gannt chart excel file in the ZSL repository. This constitutes as evidence as the gannt chart and project backlog show a comprehensive project management plan with a milestone/project schedule used in the monitoring and completion of aims and objectives for a project (ZSL). |

**M2 Evaluate the accuracy and reliability of different research methods applied.**

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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 |
| Pending for upcoming capstone |

**M3 Evaluate the selection of appropriate tools and techniques for accuracy and authenticity to support and justify recommendations.**

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| Link: <https://github.com/matthewsides/ZSL-Green-House-Menace/blob/master/README.md#194-ide> |
| This is evidenced under the sub heading "IDE" in the ZSL README.md. This constitutes as evidence as it explains the reasons behind using certain tools and techniques for a project, instead of using other tools or techniques. |

**M4 Evaluate the value of the project management process and use of quality research to meet stated objectives and support own learning and performance.**

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| Link: <https://github.com/matthewsides/ZSL-Green-House-Menace/blob/master/README.md#34-importance-of-team-dynamics-in-the-success-andor-failure-of-group-work>  <https://www.linkedin.com/pulse/importance-cpd-its-contribution-improved-own-learning-matthew-sides/?published=t> |
| This is evidenced under the heading "evaluation" and subheadings “Importance of team dynamics in the success and/or failure of group work", which delves into the value of project management, "self-contribution", which talks about my own performance during a project. Whilst evidence of evaluation and how it supports my own learning is presented in the LinkedIn CPD article. |

**D1 Critically evaluate the project management process and appropriate research methodologies applied.**

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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 |
| Pending for upcoming capstone |

**D2 Critically evaluate and reflect on the project outcomes, the decision making process and changes or developments of the initial project management plan to support justification of recommendations and learning during the project.**

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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 |
| Pending |