## Component Design and Integration Plan

1. **Determine the required programming systems and components.**

*Analyse and evaluate the functionality required by the project to determine the components and systems that need to be created.*

1. **Document your process for analysing, evaluating, sourcing, and selecting components.**
   1. *Analyse the functionality required by each component.*
   2. *Evaluate possible designs for each component.*
   3. *Source various references or third party resources for each component.*
   4. *Compare the possible design solutions for each component and select the most appropriate solution for the project.*
2. **Evaluate the technical impact of each component on the overall design of the project.**

*Consider how the components will impact on the overall design of the project. Address how the components will be integrated into the project with consideration for the software being used in the development pipeline.*

1. **Create a domain model for the overall project detailing how each component/system responds to one another and their flow of data.**

*Insert a picture of your domain model for your project. Ensure you specifically outline the data that each component sends and receives.*

1. **Address the cost of implementing each of the components.**

*Using the three point estimation formula, determine the estimated time that each component will take to implement into the project to achieve the correct functionality required by the overall project. Explain the elements of development taken into consideration that were used to determine your optimistic, pessimistic, and most likely estimations for each components calculation.*

1. **Address any possible licensing issues in regards to third party components or scripts being used.**

*Identify and explain any possible licensing issues that may arise in relation to third party components or scripts being used, or code used from any external resources (such as tutorials, public repositories, asset stores, etc.).*