## Heap

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| Requirement #: GA1-DA1 | Requirement Type: Functional | | Use Case #: |
| **Description:** Educate user on the history of the Heap structure | | | |
| **Rationale:** Integral to the overall project objective | | | |
| **Fit Criterion:** Successfully integrate the history of Heap structure’s into the application | | | |
| **Dependencies:** GA1-G1 to GA1-Gn | | **Rank of Importance:** Critical | |

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| Requirement #: GA1-DA2 | Requirement Type: Functional | | Use Case #: |
| **Description:** Demonstrate the Heap structure in context | | | |
| **Rationale:** Integral to the overall project objective | | | |
| **Fit Criterion:** Successfully integrate a demonstration that shows the Heap structure in context | | | |
| **Dependencies:** GA1-G1 to GA1-Gn | | **Rank of Importance:** Critical | |

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| Requirement #: GA1-DA3 | Requirement Type: Functional | | Use Case #: |
| **Description:** Show pseudo code for the Heap structure | | | |
| **Rationale:** Integral to the overall project objective | | | |
| **Fit Criterion:** Successfully show pseudo code for Heap structure’s alongside an algorithm demonstration | | | |
| **Dependencies:** GA1-G1 to GA1-Gn | | **Rank of Importance:** Critical | |

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| Requirement #: GA1-DA4 | Requirement Type: Functional | | Use Case #: |
| **Description:** Interactive game or activity to demonstrate Heap structure’s | | | |
| **Rationale:** Integral to the overall project objective | | | |
| **Fit Criterion:** The application will integrate an activity or game to demonstrate Heap structure’s in context | | | |
| **Dependencies:** GA1-G1 to GA1-Gn | | **Rank of Importance:** Desirable | |

# Stack

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| Requirement #: GA1-DA5 | Requirement Type: Functional | | Use Case #: |
| **Description:** Educate user on the history of the Stack structure | | | |
| **Rationale:** Integral to the overall project objective | | | |
| **Fit Criterion:** Successfully integrate the history of Stack structure’s into the application | | | |
| **Dependencies:** GA1-G1 to GA1-Gn | | **Rank of Importance:** Critical | |

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| Requirement #: GA1-DA6 | Requirement Type: Functional | | Use Case #: |
| **Description:** Demonstrate the Stack structure in context | | | |
| **Rationale:** Integral to the overall project objective | | | |
| **Fit Criterion:** Successfully integrate a demonstration that shows the Stack structure in context | | | |
| **Dependencies:** GA1-G1 to GA1-Gn | | **Rank of Importance:** Critical | |

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| Requirement #: GA1-DA7 | Requirement Type: Functional | | Use Case #: |
| **Description:** Show pseudo code for the Stack structure | | | |
| **Rationale:** Integral to the overall project objective | | | |
| **Fit Criterion:** Successfully show pseudo code for Stack structure’s alongside an algorithm demonstration | | | |
| **Dependencies:** GA1-G1 to GA1-Gn | | **Rank of Importance:** Critical | |

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| --- | --- | --- | --- |
| Requirement #: GA1-DA8 | Requirement Type: Functional | | Use Case #: |
| **Description:** Interactive game or activity to demonstrate Stack structure’s | | | |
| **Rationale:** Integral to the overall project objective | | | |
| **Fit Criterion:** The application will integrate an activity or game to demonstrate Stack structure’s in context | | | |
| **Dependencies:** GA1-G1 to GA1-Gn | | **Rank of Importance:** Desirable | |

# Queue

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| Requirement #: GA1-DA9 | Requirement Type: Functional | | Use Case #: |
| **Description:** Educate user on the history of the Queue structure | | | |
| **Rationale:** Integral to the overall project objective | | | |
| **Fit Criterion:** Successfully integrate the history of Queue structure’s into the application | | | |
| **Dependencies:** GA1-G1 to GA1-Gn | | **Rank of Importance:** Critical | |

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| Requirement #: GA1-DA10 | Requirement Type: Functional | | Use Case #: |
| **Description:** Demonstrate the Queue structure in context | | | |
| **Rationale:** Integral to the overall project objective | | | |
| **Fit Criterion:** Successfully integrate a demonstration that shows the Queue structure in context | | | |
| **Dependencies:** GA1-G1 to GA1-Gn | | **Rank of Importance:** Critical | |

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| --- | --- | --- | --- |
| Requirement #: GA1-DA11 | Requirement Type: Functional | | Use Case #: |
| **Description:** Show pseudo code for the Queue structure | | | |
| **Rationale:** Integral to the overall project objective | | | |
| **Fit Criterion:** Successfully show pseudo code for Queue structure’s alongside an algorithm demonstration | | | |
| **Dependencies:** GA1-G1 to GA1-Gn | | **Rank of Importance:** Critical | |

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| Requirement #: GA1-DA12 | Requirement Type: Functional | | Use Case #: |
| **Description:** Interactive game or activity to demonstrate Queue structure’s | | | |
| **Rationale:** Integral to the overall project objective | | | |
| **Fit Criterion:** The application will integrate an activity or game to demonstrate Queue structure’s in context | | | |
| **Dependencies:** GA1-G1 to GA1-Gn | | **Rank of Importance:** Desirable | |

# Trees

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| Requirement #: GA1-DA13 | Requirement Type: Functional | | Use Case #: |
| **Description:** Educate user on the history of the Tree structure | | | |
| **Rationale:** Integral to the overall project objective | | | |
| **Fit Criterion:** Successfully integrate the history of Tree structure’s into the application | | | |
| **Dependencies:** GA1-G1 to GA1-Gn | | **Rank of Importance:** Critical | |

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| Requirement #: GA1-DA14 | Requirement Type: Functional | | Use Case #: |
| **Description:** Demonstrate the Tree structure in context | | | |
| **Rationale:** Integral to the overall project objective | | | |
| **Fit Criterion:** Successfully integrate a demonstration that shows the Tree structure in context | | | |
| **Dependencies:** GA1-G1 to GA1-Gn | | **Rank of Importance:** Critical | |

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| Requirement #: GA1-DA15 | Requirement Type: Functional | | Use Case #: |
| **Description:** Show pseudo code for the Tree structure | | | |
| **Rationale:** Integral to the overall project objective | | | |
| **Fit Criterion:** Successfully show pseudo code for Tree structure’s alongside an algorithm demonstration | | | |
| **Dependencies:** GA1-G1 to GA1-Gn | | **Rank of Importance:** Critical | |

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| Requirement #: GA1-DA16 | Requirement Type: Functional | | Use Case #: |
| **Description:** Interactive game or activity to demonstrate Tree structure’s | | | |
| **Rationale:** Integral to the overall project objective | | | |
| **Fit Criterion:** The application will integrate an activity or game to demonstrate Tree structure’s in context | | | |
| **Dependencies:** GA1-G1 to GA1-Gn | | **Rank of Importance:** Desirable | |

# Arrays

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| Requirement #: GA1-STDA1 | Requirement Type: Functional | | Use Case #: |
| **Description:** Educate user on the history of the Arrays structure | | | |
| **Rationale:** Integral to the overall project objective | | | |
| **Fit Criterion:** Successfully integrate the history of Arrays structure’s into the application | | | |
| **Dependencies:** GA1-G1 to GA1-Gn | | **Rank of Importance:** Stretch | |

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| --- | --- | --- | --- |
| Requirement #: GA1-STDA2 | Requirement Type: Functional | | Use Case #: |
| **Description:** Demonstrate the Arrays structure in context | | | |
| **Rationale:** Integral to the overall project objective | | | |
| **Fit Criterion:** Successfully integrate a demonstration that shows the Arrays structure in context | | | |
| **Dependencies:** GA1-G1 to GA1-Gn | | **Rank of Importance:** Stretch | |

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| --- | --- | --- | --- |
| Requirement #: GA1-STDA3 | Requirement Type: Functional | | Use Case #: |
| **Description:** Show pseudo code for the Arrays structure | | | |
| **Rationale:** Integral to the overall project objective | | | |
| **Fit Criterion:** Successfully show pseudo code for Arrays structure’s alongside an algorithm demonstration | | | |
| **Dependencies:** GA1-G1 to GA1-Gn | | **Rank of Importance:** Stretch | |

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| --- | --- | --- | --- |
| Requirement #: GA1-STDA4 | Requirement Type: Functional | | Use Case #: |
| **Description:** Interactive game or activity to demonstrate Arrays structure’s | | | |
| **Rationale:** Integral to the overall project objective | | | |
| **Fit Criterion:** The application will integrate an activity or game to demonstrate Arrays structure’s in context | | | |
| **Dependencies:** GA1-G1 to GA1-Gn | | **Rank of Importance:** Stretch | |

# Lists

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| --- | --- | --- | --- |
| Requirement #: GA1-STDA5 | Requirement Type: Functional | | Use Case #: |
| **Description:** Educate user on the history of the Lists structure | | | |
| **Rationale:** Integral to the overall project objective | | | |
| **Fit Criterion:** Successfully integrate the history of Lists structure’s into the application | | | |
| **Dependencies:** GA1-G1 to GA1-Gn | | **Rank of Importance:** Stretch | |

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| --- | --- | --- | --- |
| Requirement #: GA1-STDA6 | Requirement Type: Functional | | Use Case #: |
| **Description:** Demonstrate the Lists structure in context | | | |
| **Rationale:** Integral to the overall project objective | | | |
| **Fit Criterion:** Successfully integrate a demonstration that shows the Lists structure in context | | | |
| **Dependencies:** GA1-G1 to GA1-Gn | | **Rank of Importance:** Stretch | |

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| --- | --- | --- | --- |
| Requirement #: GA1-STDA7 | Requirement Type: Functional | | Use Case #: |
| **Description:** Show pseudo code for the Lists structure | | | |
| **Rationale:** Integral to the overall project objective | | | |
| **Fit Criterion:** Successfully show pseudo code for Lists structure’s alongside an algorithm demonstration | | | |
| **Dependencies:** GA1-G1 to GA1-Gn | | **Rank of Importance:** Stretch | |

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| --- | --- | --- | --- |
| Requirement #: GA1-STDA8 | Requirement Type: Functional | | Use Case #: |
| **Description:** Interactive game or activity to demonstrate Lists structure’s | | | |
| **Rationale:** Integral to the overall project objective | | | |
| **Fit Criterion:** The application will integrate an activity or game to demonstrate Lists structure’s in context | | | |
| **Dependencies:** GA1-G1 to GA1-Gn | | **Rank of Importance:** Stretch | |