**Team 12 Feathersoft CRC**

**Classes:**

SRS section 3.2.2 describes the following classes of related real-world objects in the system. Real world objects identify physical or conceptual components of the system:

* Event Configuration
* Log File
* Enforcement Action Report
* Vector
* Significant Log Entry
* Node
* Relationship
* Icon
* Graph
* Manager

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| **Concrete Class: Manager** | |
| **Responsibilities (Does):**   * [SRS 56 -60] Connect to Lead IP Address * [SRS 82] Compare Vector DB differences between Lead and Non-Lead * [SRS 83] Download Vector and Graph from Lead Vector DB to user’s Vector DB * [SRS 84] Upload Vector and Graph from user’s Vector DB to Lead approval status page * Load Vector from Local Storage * Download copy (Saving) of Vector to Local Storage | **Collaborators:**  The Manager (Client) class will collaborate with Event Configuration (Server) to gain access to its attributes.  The Manager class (Client) receives log entries attributes from Significant Log Entry class (Server). |

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| **Concrete Class: Event Configuration** | |
| **Responsibilities (Knows):**   * [SRS 35] Knows event name * [SRS 35] Knows event description * [SRS 35] Knows event start timestamp * [SRS 35] Knows event end timestamp * [SRS 35] Knows root directory * [SRS 35] Knows red team folder * [SRS 35] Knows white team folder * [SRS 35] Knows blue team folder * [SRS 35] Knows where the master vector DB is stored * [SRS 35] Knows lead’s IP address * [SRS 35] Knows the number of established connections to the host machine   **Responsibilities (Does):**   * [SRS 61-64] Check directory structure | **Collaborators:**  The Event Configuration class is a (Server) class that gives attributes to the Manager class (Client).  The Event Configuration class (Server) gives the directory attributes to the Log File class (Client). |

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| **Log File** | |
| **Responsibilities (Knows):**   * [SRS 35] Knows the log file name. * [SRS 35] Knows the cleansing status of a log file. * [SRS 35] Knows the validation status of a log file. * [SRS 35] Knows the ingestion status of a log file. * [SRS 35] Knows the acknowledgement status of a log file. * [SRS 66] Knows audio transcribed text in one- minute intervals. * [SRS 66] Knows transcribed text from audio extracted from video in one-minute intervals. * [SRS 66] Knows extracted text from images. * [SRS 66] Knows extracted text from pdf files. * [SRS 66] Knows start date, end date, start timestamp, and end timestamp. | **Collaborators**:  A Log File class (Client) in the system depends upon the directory attributes provided by the Event Configuration class (Server).  A Log File class (Server) in the system provides the status attributes and transcriptions to the Enforcement Action Report (Client) |

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| **Enforcement Action Report** | |
| **Responsibilities (Knows):**   * [SRS 39] Knows where an error occurs in a log file. * [SRS 39] Knows why a specific line in the log file failed the validation test. | **Collaborators**:  A Log File class (Server) in the system provides the status attributes and transcriptions to the Enforcement Action Report (Client) |

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| **Vector** | |
| **Responsibilities (Knows):**   * [SRS 40] Knows its name * [SRS 40] Knows its description | **Collaborators**:  A Vector class (Server) provides the name attribute for the Significant Log Entry class (Client) for association. |

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| **Significant Log Entry** | |
| **Responsibilities (Knows):**   * [SRS 42] Knows the log entry number. * [SRS 42] Knows the timestamp. * [SRS 42] Knows the log entry content. * [SRS 42] Knows the name of the log file from which it originates. * [SRS 42] Knows the path of the log file from which it originates. * [SRS 42] Knows the host / IP address. * [SRS 42] Knows the source type.   **Responsibilities (Does):**   * Associates a log entry to at least one vector. | **Collaborators:**  A Vector class (Server) provides the name attribute for the Significant Log Entry class (Client) for association.  The Manager class (Client) receives log entries attributes from Significant Log Entry class (Server). |

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| **Node** | |
| **Responsibilities (Knows)**:   * [SRS 44] Knows its ID * [SRS 44] Knows its name * [SRS 44] Knows its description * [SRS 44] Knows its log entry reference * [SRS 44] Knows its log creator * [SRS 44] Knows its event type * [SRS 44] Knows its icon type * [SRS 44] Knows its source * [SRS 44] Knows its visibility | **Collaborators**:  Significant Log Entry is a (Server) class that provides log entry attributes to the Node class (Client)  Relationship is a class (Client) that receives the source and destination attributes of the Nodes class (Server) to display.  Icon is a class (Server) that provides the type attributes to the Node class (Client).  A Graph class (Client) will receive the attributes inside Node (Server) to display. |

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| **Relationship** | |
| **Responsibilities (Knows)**:   * [SRS 47] Know its relationship ID * [SRS 47] Know its parent ID (source node of the relationship) * [SRS 47] Knows its child ID. * [SRS 47] Knows its label. | **Collaborators**:  A relationship is a client of the node class because it makes references to the parent (source) and child (destination) nodes.  Graph is a client of relationship because the positions of the relationship will be used to place them on the graph. |

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| **Icon** | |
| **Responsibilities (Knows):**   * [SRS 49] Knows the path to an image. * [SRS 49] Knows the icon name.   **Responsibilities (Does):**   * Provides icon to the node class. | **Collaborators:**  Icon is a class (Server) that provides the type attributes to the Node class (Client). |

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| **Graph** | |
| **Responsibilities (Does):**   * [SRS 85] Adds nodes * [SRS 92] Edit nodes * [SRS 89] Delete nodes * [SRS 86] Adds relationships * [SRS 94] Edit relationships * [SRS 87] Remove relationships * [SRS 100] Change icons * [SRS 101] Add icons * [SRS 103] Move nodes * [SRS 102] Delete icons * [SRS 88, SRS 90] Handle errors when trying to delete relationships/nodes * [SRS 93, SRS 95] Handle errors when trying to edit nodes/relationships * [SRS 91] Filter nodes and relationships * [SRS 96] Export an image of the graph * [SRS 97] Undo changes * [SRS 98] Save changes * [SRS 99] Keep track of a change list   **Responsibilities (Knows)**   * [SRS 50] Know Export format * [SRS 50] Know Orientation * [SRS 50] Know Interval units * [SRS 50] Know Interval * [SRS 50] Know Position of nodes * [SRS 50] Know Position of relationships | **Collaborators**:  Node is a server of the graph. It provides its attributes for display and modification purposes  A graph is a client of the relationship class because it uses the positions of a relationship to display them. |