Class Responsibility Collaboration Identification
Team 3 - We Showed Up

1. **UIView**
   This class is made in QT, contains a collection QTWidgets that conform to the graphical user interface.
   - 1.1 Display graphical user interface to analyst.
     - Collaborations: UIController (2.1), GraphController (6.1), Vector (7.1, 7.2), Node (8.1, 8.2), Graph (9.1, 9.2, 9.3), LogEntry (10.1), LogFile (11.1), Icon (12.1), EventConfiguration (13.1) , EnforcementActionReport (14.1), Relationship (15.1), VersionControl (16.1)

2. **UIController**
   This class contains the necessary implementation to call all user interface functionality regarding user interaction.
   - 2.1 Contains utilities for the graphical user interface
     - Collaborations: UIView (1.1)
   - 2.2 Call functions that interact with UI
     - Collaborations: UIView (1.1)
   - 2.3 Changes data from input from buttons, text boxes, and other interactive elements of the UI.
     - Collaborations: UIView (1.1), Vector (7.1, 7.2), Node (8.1, 8.2), Graph (9.1, 9.2, 9.3), LogEntry (10.1), LogFile (11.1), Icon (12.1), EventConfiguration (13.1) , EnforcementActionReport (14.1), Relationship (15.1), VersionControl (16.1)
   - 2.4 Connects UI widgets to relevant controllers for functionality
     - Collaborations: UIView (1.1), IngestionController (3.1, 3.2, 3.3, 3.4, 3.5, 3.6), TableController (4.1, 4.2, 4.3), NetworkController (5.1), GraphController (6.1)

3. **IngestionController**
   This class initiates the appropriate procedure of ensuring all log entries are adequately imported onto the system.
   - 3.1 Gather logs from the directories
     - Collaborations: EventConfiguration (13.1), EnforcementActionReport (14.1)
   - 3.2 Delegate log formats to appropriate transcriber
     - Collaborations: LogFile (11.1)
   - 3.3 Cleanse logs
     - Collaborations: EnforcementActionReport (14.1), LogFile (11.1)

- 3.4 Validate logs
  - Collaborations: EventConfiguration (13.1), Log File (11.1), LogEntry, EnforcementActionReport (14.1)
- 3.5 Sends log entries to SPLUNK
  - Collaboration: LogEntry (10.1)
- 3.6 Keep track of deltas in the directories
  - Collaborations: EventConfiguration (13.1), EnforcementActionReport (14.1)

4. **TableController**
   This class provides the following features to filter log entries by associated properties.
   - 4.1 Format table for representation in QtWidgets
     - Collaborations: Node (8.1, 8.1), LogEntry (10.1)
   - 4.2 Filter by timestamp range
     - Collaborations: LogEntry (10.1), Node (8.1, 8.1)
   - 4.3 Filter by keyword(s) on attribute
     - Collaborations: LogEntry (10.1), Node (8.1, 8.1)

5. **NetworkController**
   This class handles network authentication and connectivity to host databases.
   - 5.1 Connect analysts and host DB
     - Collaborations: EventConfiguration (13.1), VersionControl (16.1)

6. **GraphController**
   This class utilizes Maltego for updating graphical representations from extracted nodes and relationships.
   - 6.1 Interacts with Maltego tool to create a graphical representation of nodes and relationships
     - Collaborations: Graph (9.1, 9.2, 9.3), Nodes (8.1, 8.1), Relationship (15.1)

7. **Vector**
   This class contains all vector relevant data used for vector association.
   - 7.1 Stores nodes relevant to an event vector
     - Collaborations: Node (8.1, 8.2)
   - 7.2 Stores a description of an event vector
     - Collaborations: n/a

8. **Node**
   This class contains all the relevant data used for the representation of a log entry in a vector.
   - 8.1 Represents a relevant part of a vector event (from a log entry or user-defined)
     - Collaborations: LogEntry (10.1)
   - 8.2 Stores information relevant to the origin of the action. (red, white, blue)
     - Collaborations: Icon (12.1), EventConfiguration (13.1)

9. **Graph**
   This class contains the relevant data for the graphical representation of the vector as well as the export settings for it.
   - 9.1 Stores position information for nodes
     - Collaborations: Node (9.1, 9.2, 9.3)
   - 9.2 Stores position information for relationships of nodes
     - Collaborations: Relationship (15.1)
   - 9.3 Stores graph display/export information
     - Collaborations: n/a

10. **LogEntry**
    This class contains a single log event formatted according to SPLUNK.
    - 10.1 Stores information about events enacted by a team
      - Collaborations: n/a

11. **LogFile**
    This class contains a raw collection of log entries of the actions done by a team.
    - 11.1 Store the raw information of a series of events
      - Collaborations: n/a

12. **Icon**
    This class contains the information for the icons to be used on the nodes.
    - 12.1 Stores information for the graphical identifier of events
      - Collaborations: n/a

13. **EventConfiguration**
    This class contains all the relevant configuration data for the assessment.
    - 13.1 Stores information of the source of data for the event
      - Collaborations: n/a

14. **EnforcementActionReport**

This class contains the information for the logs under the ingestion process

- 14.1 Stores information of the ingestion process of the logs.
  - Collaborations: n/a

15. Relationship

This class contains all relevant configuration data for node relationships

- 15.1 Stores information about the type of relationship two nodes share
  - Collaborations: Node (8.1)

16. VersionControl

This class contains all relevant information for the vector DB

- 16.1 Stores information of the changes made to the hostDB
  - Collaborations: n/a