**Event Configuration**

|  |  |  |
| --- | --- | --- |
| Concrete Class: | Event Configuration | |
| Super Class: | None | |
| Subclasses: | None | |
| Responsibilities: | |  |
| 1. Know event details 2. Know log file directories 3. Know who is project lead 4. Know how many people are working on the project 5. Can change project lead 6. Can change event details | | Interpreter (2)  Interpreter (2)  Interpreter (2), Networking (1)  Networking (2)  Interpreter (1)  Interpreter (1) |

**Interpreter**

|  |  |  |
| --- | --- | --- |
| Concrete Class: | Interpreter | |
| Super Class: | None | |
| Subclasses: | None | |
| Responsibilities: | |  |
| 1. Can convert/interpret data 2. Can send user input 3. Can query data | | User Interface (3)  Database (2) |

**Log File**

|  |  |  |
| --- | --- | --- |
| Concrete Class: | Log File | |
| Super Class: | None | |
| Subclasses: | None | |
| Responsibilities: | |  |
| 1. Know log file name 2. Know cleansing status 3. Know validation status 4. Know ingestion status 5. Know acknowledgement status 6. Can change acknowledgement status | | Ingestion (5)  Ingestion (3)  Ingestion (4)  Ingestion (5)  Ingestion (5)  Interpreter (2) |

**Ingestion**

|  |  |  |
| --- | --- | --- |
| Concrete Class: | Ingestion | |
| Super Class: | None | |
| Subclasses: | None | |
| Responsibilities: | |  |
| 1. Know validation parameters 2. Know log file directories 3. Cleanse log files 4. Validate log files 5. Ingest log files 6. Scan for changes to log files | | Event Configuration (1)  Event Configuration (2)  Event Configuration (2) |

**Enforcement Action Report**

|  |  |  |
| --- | --- | --- |
| Concrete Class: | Enforcement Action Report | |
| Super Class: | None | |
| Subclasses: | None | |
| Responsibilities: | |  |
| 1. Know related log file(s) 2. Know error(s) of log file 3. Can force validate | | Ingestion (2), Log File (1-4)  Error (1,2)  Interpreter (2) |

**Error**

|  |  |  |
| --- | --- | --- |
| Concrete Class: | Error | |
| Super Class: | None | |
| Subclasses: | None | |
| Responsibilities: | |  |
| 1. Know error message 2. Know line number of error | | Log File (4)  Ingestion (5) |

**Vector**

|  |  |  |
| --- | --- | --- |
| Concrete Class: | Vector | |
| Super Class: | None | |
| Subclasses: | None | |
| Responsibilities: | |  |
| 1. Know vector details 2. Knows graph representation 3. Know set of significant log entries 4. Can change vector details 5. Can add/remove significant log entries | | Interpreter (2)  Graph (2,4,5,7,8)  Significant Log Entry (1,2,3)  Interpreter (1)  Interpreter (1), Significant Log Entry (1,2,3) |

**Graph**

|  |  |  |
| --- | --- | --- |
| Concrete Class: | Graph | |
| Super Class: | None | |
| Subclasses: | None | |
| Responsibilities: | |  |
| 1. Know export format 2. Know graphical orientation 3. Know interval units 4. Know set of nodes 5. Know set of relationships 6. Know current interval 7. Know position of nodes 8. Know position of relationships 9. Can edit export format 10. Can edit orientation 11. Can edit interval units 12. Can edit current interval 13. Can edit position of nodes 14. Can edit position of relationships 15. Can add/remove/edit nodes 16. Can add/remove/edit relationships 17. Can add/ remove/edit icon 18. Can export graph 19. Undo/commit changes | | Interpreter (1)  Interpreter (1)  Interpreter (1,3), Node (1-7)  Interpreter (1,3), Relationship (5,6,7)  Interpreter (1,3), Icon (1,2)  Networking (1) |

**Significant Log Entry**

|  |  |  |
| --- | --- | --- |
| Concrete Class: | Significant Log Entry | |
| Super Class: | None | |
| Subclasses: | None | |
| Responsibilities: | |  |
| 1. Know log entry details 2. Know source 3. Know source type 4. Can change host 5. Can change content 6. Can change timestamp | | Ingestion (5)  Ingestion (5)  Ingestion (5)  Interpreter (1)  Interpreter (1,3)  Interpreter (1,3) |

**Node**

|  |  |  |
| --- | --- | --- |
| Concrete Class: | Node | |
| Super Class: | None | |
| Subclasses: | None | |
| Responsibilities: | |  |
| 1. Know its ID 2. Know log entry reference if related to one 3. Know activity details 4. Know visibility of attributes in graphical format 5. Can change visibility of attributes in graphical format 6. Can edit activity details 7. Can edit log entry reference | | Significant Log Entry (1)  Interpreter (1,3)  Interpreter (1,3)  Interpreter (1,3), Significant Log Entry (1) |

**Relationship**

|  |  |  |
| --- | --- | --- |
| Concrete Class: | Relationship | |
| Super Class: | None | |
| Subclasses: | None | |
| Responsibilities: | |  |
| 1. Know its ID 2. Know parent node ID 3. Know child node ID 4. Know label 5. Can change parent node 6. Can change child node 7. Can edit label | | Node (1)  Node (1)  Interpreter (2,3)  Interpreter (1,3)  Interpreter (1,3)  Interpreter (1,3) |

**Icon**

|  |  |  |
| --- | --- | --- |
| Concrete Class: | Icon | |
| Super Class: | None | |
| Subclasses: | None | |
| Responsibilities: | |  |
| 1. Know icon file path 2. Know icon name | | Interpreter (2)  Interpreter (2) |

**Networking**

|  |  |  |
| --- | --- | --- |
| Concrete Class: | Networking | |
| Super Class: | None | |
| Subclasses: | None | |
| Responsibilities: | |  |
| 1. Can send/receive project information over network 2. Know how many users are connected | | Interpreter (1) |

**DB Manager**

|  |  |  |
| --- | --- | --- |
| Concrete Class: | DB Manager | |
| Super Class: | None | |
| Subclasses: | None | |
| Responsibilities: | |  |
| 1. Know project information 2. Merge network changes to project database 3. Merge local changes to project database 4. Track changes to database | | Interpreter (3)  Networking (1)  Networking (1) |

**Database**

|  |  |  |
| --- | --- | --- |
| Concrete Class: | Database | |
| Super Class: | None | |
| Subclasses: | None | |
| Responsibilities: | |  |
| 1. Can store data 2. Know database details | |  |

**User Interface**

|  |  |  |
| --- | --- | --- |
| Concrete Class: | User Interface | |
| Super Class: | None | |
| Subclasses: | None | |
| Responsibilities: | |  |
| 1. Know current window format 2. Can display project information 3. Can receive user input | | Interpreter (3) |