

Change Summary Table

Version	Name	Date	Description1.
1.0.0	Hot Java	05/02/2020	Fernie: section 3.2.3 Data Sync Diagram Cynthia: Notifications Diagram Data Sync Diagram System requirements notifications Lauren: Notifications Diagram Data Sync Diagram System requirements findings and data sync Joaquin: Notification Diagram Data Sync Diagram Jesus: Introduction paragraphs + 3.2.3.1
1.0.1	Hot Java	05/04/2020	Created more requirements for section 3.2.3.1 based on Elsa's feedback
1.0.2	Jesus Gutierrez	05/05/2020	Reconstructed 3.2.3.1 based on Elsa's feedback

3.2.3. Stimulus

The purpose of this section is to describe the prototype and state transition diagrams and how each state transitions. There are two types of stimulus requirements that analysts will have when using the system, user interface stimulus and system stimulus requirements. User interface stimulus will define how an analyst will use the system. System stimulus is how the system will transition states when an analyst uses the system. The functions of a state shall transition to findings state diagram, notification state diagram and data synchronization state diagram.

3.2.3.1. User Interface Stimulus (Stimulus requirement for UI)

3.2.3.1.1 General

[SRS 1] When the user clicks on the “Findings” tab under the “Navigation Menu”, the system shall display the finding page under “<http://FRIC.com/finding>”.

[SRS 2] When the user clicks on the “Sync” button on the finding page under “<http://FRIC.com/finding>”, the system shall display the sync data page under “<http://FRIC.com/syncdata>”.

[SRS 3] When the user clicks on the “Create” button on the finding page under “<http://FRIC.com/finding>”, the system shall display the create page under “<http://FRIC.com/createfinding>”.

[SRS 4] When the user clicks on the “Edit” button on the finding page under “<http://FRIC.com/finding>”, the system shall display the edit page under “<http://FRIC.com/editfinding>”.

[SRS 5] When the user clicks on the “Delete” button on the finding page under “<http://FRIC.com/finding>”, the system shall delete the currently selected finding.

[SRS 6] When the user hovers over the “Info” icon next to the derived values on the create finding page under “<https://FRIC.com/createfinding>”, the system shall display pop-up windows that display the description of the derived values. Also, the system shall display a button labeled as “OK” for the user to click on after the user has read the description.

[SRS 7] When the user clicks on the check boxes labeled as “Collaborators” on the create finding page under “<https://FRIC.com/createfinding>”, the system shall display the appropriate collaborators which the user can add to the new finding.

[SRS 8] When the user clicks on the “Attach a File” button on the create finding page under [“https://FRIC.com/createfinding”](https://FRIC.com/createfinding), the user will be able to enter evidence as follows:

1. .TXT file
2. .PNG file
3. .JPG file

[SRS 9] When the user clicks on the “Save” button on the create finding page under [“http://FRIC.com/createfinding”](http://FRIC.com/createfinding), the system shall display a window alert stating “Missing ___ entry” if and only if the user tries to save a new finding with a missing field. Note that such fields are labeled with a “*” if they are required.

[SRS 10] When the user clicks on the “Save” button on the create finding page under [“http://FRIC.com/createfinding”](http://FRIC.com/createfinding), the system shall save the newly created finding with all of the attributes filled correctly.

[SRS 11] When the user clicks on the appropriate text fields on the create finding page under [“https://FRIC.com/createfinding”](https://FRIC.com/createfinding), the system shall expect an appropriate input. Finding’s text field attributes are listed below:

1. Finding Title
2. Host Name
3. IP Port
4. Description
5. ID
6. Analyst
7. Notes
8. Mitigation

[SRS 12] When the user clicks on the appropriate drop downs on the create finding page under [“https://FRIC.com/createfinding”](https://FRIC.com/createfinding), the system shall expect an appropriate drop down option to be selected. Finding’s drop down attributes are listed below:

1. Status
 - a. The system shall display the following as options to select the Status:
 - i. Open
 - ii. Closed
2. Finding Type
 - a. The system shall display the following as options to select the Finding Type:
 - i. Credentials Complexity
 - ii. Manufacturer Default Creds
 - iii. Lack of Authentication

- iv. Plain Text Protocols
- v. Plain Text Web-Login
- vi. Encryption
- vii. Authentication Bypass
- viii. Port Security
- ix. Access Control
- x. Least Privilege
- xi. Privilege Escalation
- xii. Missing Patches
- xiii. Physical Security

3. Posture

- a. The system shall display the following as options to select the Posture:
 - i. INSIDER
 - ii. OUTSIDER
 - iii. NEARSIDER

4. CAT

- a. The system shall display the following as options to select the CAT:
 - i. I
 - ii. II
 - iii. III

[SRS 13] When the user clicks on the “Save” button on the create finding page under “<http://FRIC.com/createfinding>”, the system shall display the following finding’s attributes that are derived from other finding’s attributes:

- 1. Relevance
- 2. Likelihood
- 3. Risk
- 4. Impact
- 5. Countermeasure
- 6. VS Score
- 7. Evidence
- 8. System Categorization (CIA)

3.2.3.2. System Stimulus

This section presents the structure and the requirements that will include the corresponding development and design of the system.

3.2.3.2.1. Finding

When the creation of finding is complete, the system shall perform the verification of inputs.

When the verification of inputs is complete, the following properties of finding shall be true:
All required properties of a finding are inputted/meets the constraints as defined in [req x].

[SRS 14] When the create finding operation is complete, the system shall save the data.

[SRS 15] When the verify input operation is complete, the system shall generate the derived inputs.

[SRS 16] When the association operation is complete, the system shall associate the data to the corresponding finding.

[SRS 17] When the edit finding operation is complete, the system shall verify the input data.

[SRS 18] When the delete finding operation is complete, the system shall update the tasks data.

3.2.3.2.2. Notification

[SRS 19] When the retrieve priority operation is complete with a “Low” priority, the system shall end the process.

[SRS 20] When the retrieve priority operation is complete with a “High” or “Medium” priority, the system shall do the following:

- a. The system shall save the frequency date input from the lead analyst.
- b. The system shall check if the frequency date matches the current date.
- c. When the send notification operation is complete, the system shall notify the corresponding analysts.

[SRS 21] When the edit notification operation is complete, the system shall save the frequency date input from the lead analyst.

3.2.3.2.3. Data Synchronization

[SRS 22] When the “Verify Data” operation is completed with no new data found, the system shall end the process.

[SRS 23] When the “Verify Data” operation is completed with new data found, the system shall do the following:

- a. Pull data
- b. Push data

Appendix: Finding State Transition Diagram

This section presents the structure of the state transition diagram under findings.

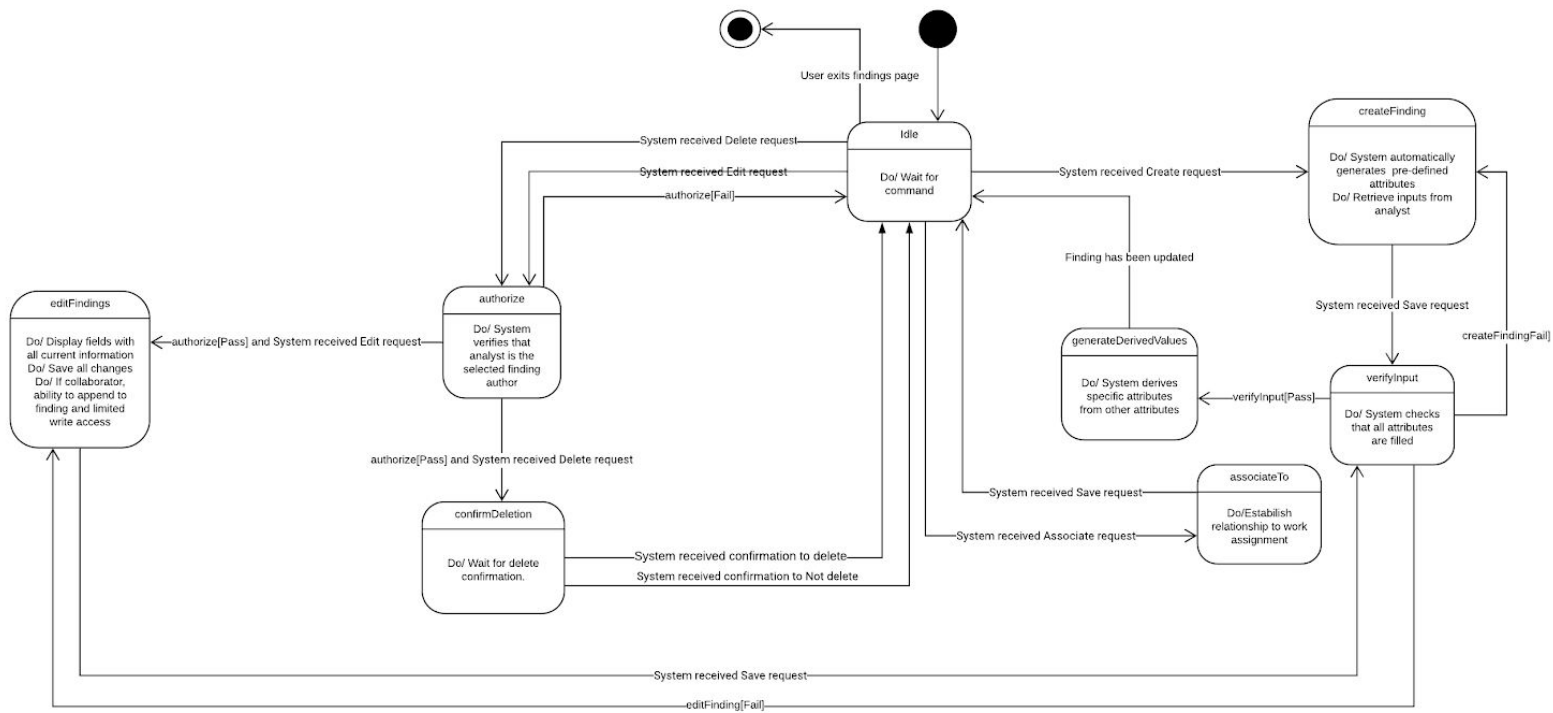


Figure 1.

Appendix: Notification State Transition Diagram

[Introduction]

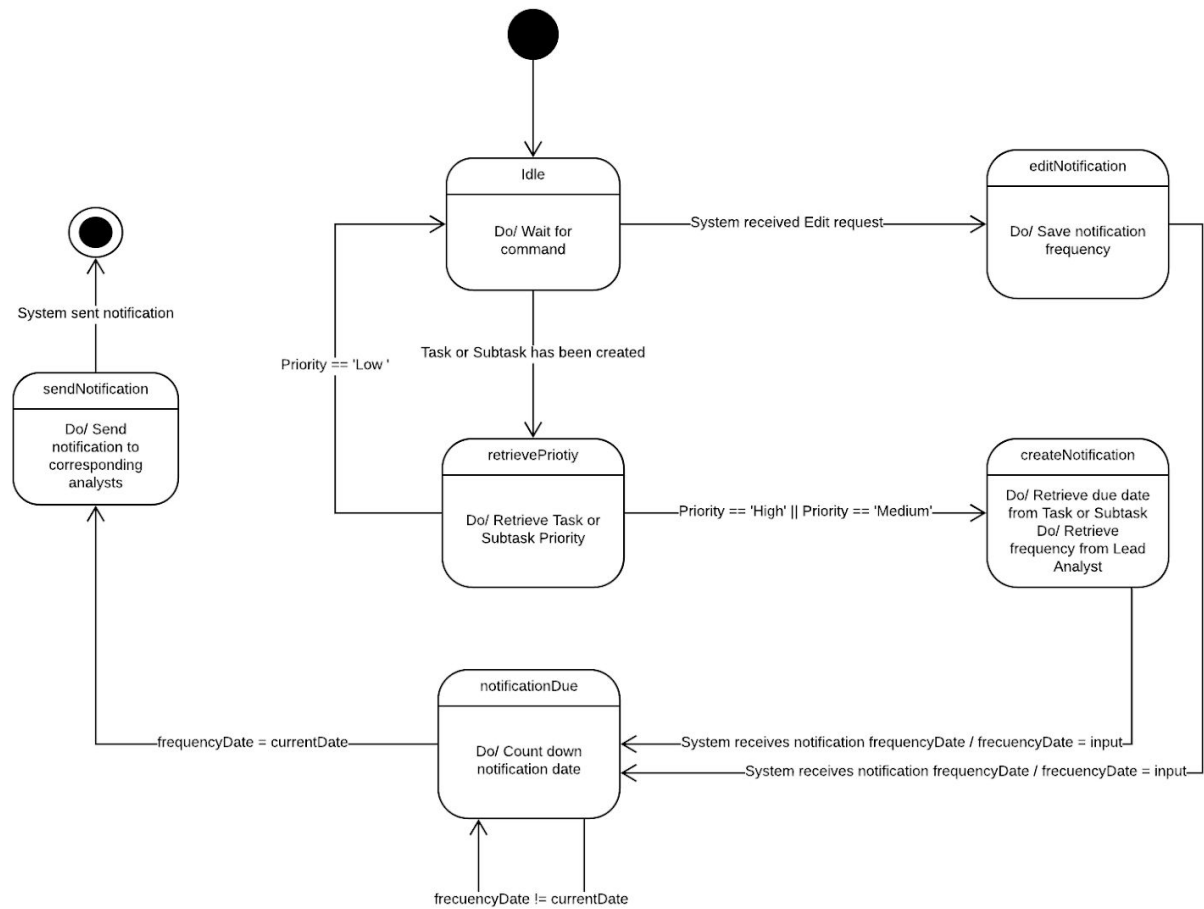


Figure 2.

Appendix: Data Synchronization State Transition Diagram

[Introduction]

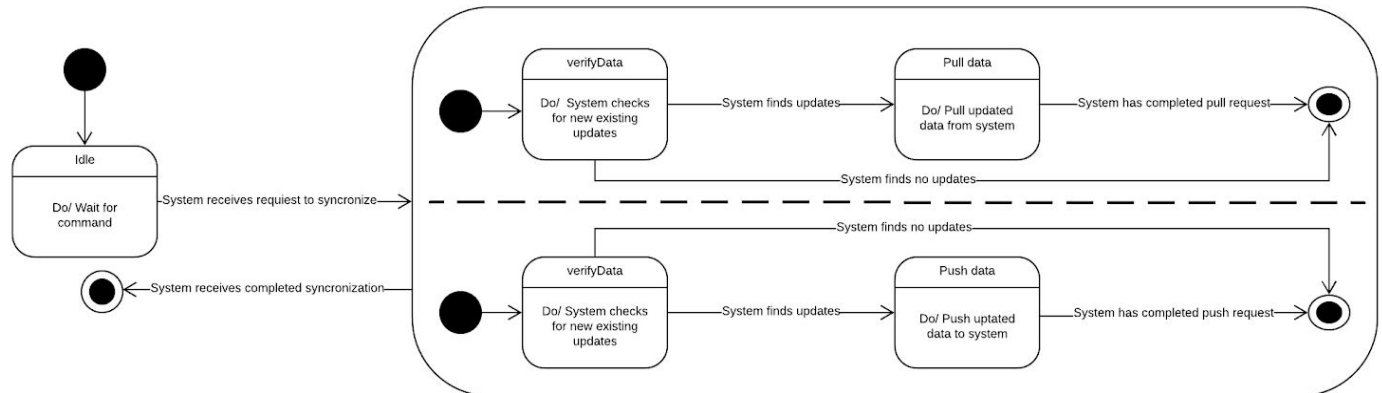


Figure 3.