Criminal Investigation Tracker with Suspect Prediction
Supplementary Specification

Version 1.0

Revision History

Date	Version	Description	Author
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Supplementary Specification

1. Introduction

The introduction of the **Supplementary Specification** provides an overview of the entire document.

The **Supplementary Specification** captures the system requirements that are not readily captured in the use cases of the use-case model. Such requirements include:

- Legal and regulatory requirements, including application standards.

- Quality attributes of the system to be built, including usability, reliability, performance, and supportability requirements.

- Other requirements such as operating systems and environments, compatibility requirements, and design constraints.

2. Non-functional Requirements

2.1 Availability

Source: external to system
Stimulus: unanticipated message
Environment: normal operation
Artifact: system
Response: inform operator, continue to operate
Response measure: no downtime

2.2 Performance

Source: users
Stimulus: entering information
Environment: normal operation
Artifact: system
Response: information added to the database
Response time: with average latency of two seconds

2.3 Security

Source: correctly identified individual
Stimulus: tries to modify information
Environment: normal operation
Artifact: data within the system
Response: system maintains data stable
Response measure: probability of detecting an attack

2.4 Testability

Source: unit tester
Stimulus: performs unit test
Environment: at the completion of the component
Artifact: component of the system
Response: component has interface for controlling behavior and output of the component is observable
Response measure:

2.5 Usability

Source: users
Stimulus: minimize impact of errors
Environment: at runtime

Artifact: system
Response: wishes to cancel current operation
Response measure: cancellation takes less than a second

3. Design Constraints

- Software language: Java

- IDE: Eclipse Mars

- Java Database Connector

- Data Access Object design pattern

- Table Module design pattern

- Client-server architecture