Defender Design Document

*June, 2015*

June 2015

Revision History

**Note:** If this is the first release, type “Original” in the “Summary of Changes” column.

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| Version | Date | Name of Author | Summary of Changes |
| Alpha | 6/22/2015 | Tony Petruccelli | Created doc |
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# Introduction

The Defender brings together the FDA formal data with less formal information across the internet, and acts as a big picture utility where users can go get a quick glance at current, known FDA enforcement actions, their location, and affected areas. The site additionally presents users internet trending and social media data to see related information on FDA recalls/enforcements. As the user drills into details the FDA data is further mashed with the non-FDA internet data.

# Document References

* 1

# DESIGN Assumptions and Constraints

## Design Assumptions

Assumptions and related known dependencies that affect the project are as follows:

* 1

## Design Constraints

The following are design constraints with related known impacts for this system development:

* 1

# System Overview

Defender is delivered to the user via a URL of <http://54.175.49.23:9000>. The site was designed using responsive design principles. The user is presented with search criteria to query the FDA Open API to in order to retrieve recall report data. The application, residing within AWS in term presents this information in a variety of ways to the user. The FDA Open results can then be augmented through the search and display of related information from internet trend and social media sites.

# SYSTEM ARCHITECTURE

This section describes the logical system and subsystem architecture for Defender. The architecture reflects modern technologies that allow for the addition of incremental functionality and external integration in rapid iteration.

## Execution Architecture

This section describes the logical system hardware and its organization with diagrams illustrating the connectivity between components.

* This section to be updated with a high-level graphic of the user interaction with the site

## Software Architecture

This section identifies the overall architectural pattern of the application and describes the overall system software and organization. The software requirements for the system identify any new or changed software, including all software components needed for successful system operation.

This section to be updated with a graphic of the software components, interactions, and context.

## Development Architecture

This section provides a diagram or detailed narrative depicting the development architecture used to create the system and continuously update it. Also identified are any additional packages or libraries that have been incorporated to the base stack.

## Operations Architecture

This section provides a diagram or detailed narrative depicting the continuous monitoring and fault tolerance components and interactions.

Attachment A—Acronyms and Abbreviations