Software Specification

for

C.I.A.T

Version 1.0.0

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Revision History

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# Introduction

## Purpose

C.I.A.T is a tool designed to assist developers and various business verticals in locating and highlighting important modifications.

## Document Conventions

C.I.A.T stands for Code Impact Assessment Tool

## Intended Audience and Reading Suggestions

The document is intended for, such as developers, project managers, marketing staff, users, testers, and documentation writers.

## Project Scope

## References

<https://nodejs.org/en/>

<https://www.electronjs.org/>

<https://www.npmjs.com/>

# Overall Description

## Product Perspective

1. A single code base to run for MacOS, Linux and window.
2. Performing writing operations asynchronously.
3. Able to read large files.

## Product Features

1. Input contains directory and keywords to be searched.
2. Output contains file path, line no. of file, text present, no of occurrence of a keyword

## Operating Environment

Operating system (such as window 7, 8, MacOS, Linux).

## Design and Implementation Constraints

Minimum requirements will be as follows:

○ 128 MB RAM required.

○ Processor with speed of 500 MHz.

○ MOUSE: 2 or 3 button mouse

○ KEYBOARD: 101 key Keyboard

## User Documentation

## Assumptions and Dependencies

# System Features

# Other Nonfunctional Requirements

## Performance Requirements

The Application must be lightweight and must start search instantly.

## Security Requirements

Software should store the output in a particular folder specified in config.json

## User Interface Attributes

By using GUI’s, it should make the application more user

friendly and better to use instead of a command line.

# Other information

Assets/ -> contains all images and static files

Click.png

Logo.png

Optum.png

Backend/ -> contains the logic for search and writing

Node\_modules/

Final.js

Package.json

Package-lock.json

Env/ -> environment for specifying the output folder

Config.json

Node\_modules/ -> node modules used

Result/ -> default folder for output files

Index.html -> contains the UI elements

Script.js -> contains the program for UI

Package.json

Package-lock.json

Appendix A: Issues list for future