*Alpha Software Development Team*

Community reporting App for Drug and Organized Crime Awareness

Statement of Scope

For the Royal Canadian Mounted Police

Prepared for: Sgt. Patrice Poitevin

Prepared by:

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March 5th 2012

**Project Authorization Sign-Off Sheet**

I, Sgt. Patrice Poitevin, of the Royal Canadian Mounted Police certify that this statement of scope meets the project requirements. I have read and reviewed this document as prepared by the Alpha Software Development Team and I approve the project for completion by the deliverable date of December 7th 2012.

I understand that the Computer Studies Department of Algonquin College is not a software development company, and as such cannot be regarded as being under contract to deliver a finished product.

I also understand that this project may be cancelled at any time by the Computer Studies Department of Algonquin College should the project group not meet the academic standards of CST8151 Software Design, Testing, and Quality Assurance or CST8160 Project.

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Sgt. Patrice Poitevin Date

Royal Canadian Mounted Police

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Hussain Farbotko-Merabaksh Date

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# Table of Contents

[1 PROJECT INITIALIZATION 1](#_Toc320210089)

[1.1 Introduction 1](#_Toc320210090)

[1.2 Purpose of the Project 1](#_Toc320210091)

[1.3 Users of the Product 1](#_Toc320210092)

[2 APPLICATION AND DEVELOPMENT ENVIRONMENTS 2](#_Toc320210093)

[2.1 Application Environment of the Proposed System 2](#_Toc320210094)

[2.1.1 Hardware Requirements 2](#_Toc320210095)

[2.1.2 Software Requirements 2](#_Toc320210096)

[2.1.3 Data Requirements 2](#_Toc320210097)

[2.2 Development Environment of the Proposed System 2](#_Toc320210098)

[2.2.1 Hardware Requirements 2](#_Toc320210099)

[2.2.2 Software Requirements 2](#_Toc320210100)

[2.2.3 Data Requirements 2](#_Toc320210101)

[2.2.4 Research Requirements 2](#_Toc320210102)

[3 FUNCTIONAL REQUIREMENTS 3](#_Toc320210103)

[3.1 The Scope of the Work – The Proposed System’s Context Diagram 3](#_Toc320210104)

[3.2 Functions Provided by the Project 4](#_Toc320210105)

[3.2.1 Essential Requirements 4](#_Toc320210106)

[3.2.2 Useful Requirements 4](#_Toc320210107)

[3.2.3 Desirable Requirements 4](#_Toc320210108)

[4 NON-FUNCTIONAL REQUIREMENTS 5](#_Toc320210109)

[4.1 Mandated Constraints 5](#_Toc320210110)

[4.1.1 Delivery date 5](#_Toc320210111)

[4.1.2 Solution Constraints 5](#_Toc320210112)

[4.2 Look and Feel Requirements 5](#_Toc320210113)

[4.2.1 The Interface 5](#_Toc320210114)

[4.3 Usability 7](#_Toc320210115)

[4.3.1 Ease of use 7](#_Toc320210116)

[5 DELIVERABLES 8](#_Toc320210117)

[5.1 Project Deliverables 8](#_Toc320210118)

[5.2 Course Deliverables 8](#_Toc320210119)

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# PROJECT INITIALIZATION

The initialization of the project and the understanding of the driving forces behind the client’s request for a product are important to understand at the very onset of the project.

## Introduction

This is a Statement of Scope prepared by the Alpha Software Development Team for the Community reporting App for Drug and Organized Crime Awareness system sponsored by Sgt. Patrice Poitevin, Royal Canadian Mounted Police. The project group leader is Hussain Farbotko-Merabaksh, and the project team members are Nicolas Castilloux, Curtis Collins, Anthony Guevera,Patrick Ings and Brian Reed. The project will proceed according to the project plan annotated in Appendix A and Appendix B Gantt charts, and have a completion date of December 7th 2012.

## Purpose of the Project

This project aims to improve and expand an existing application that will address the needs of our client, Pat Poitevin, of whose goal is to provide valuable and beneficial drug related information to both the RCMP and to the community.

The existing application is a website designed exclusively to gather and display information related to various drugs, where they are most commonly seen and seized, and the effects of these drugs. It is a web application that gets its information based on third party contributors. The client feels that the system has done a good job fulfilling its requirements, but is looking to improve both on its functionality as well as its interface.

This is meant to be a tool that can be used to help analyze and predict drug patterns in the community. The explicit aim is to not be a scientific tool, but a practical tool that can be of more immediate service to the community.

## Users of the Product

The users of this system will include individuals who come into contact with or have knowledge of drug-use in both illegal use and legal over use. The average user would be an individual who would be able to both use and enhance statistics on drug-usage for the purpose of tracking emerging trends. The input of users can range from knowledge of growing trends, new types being introduced, or symptoms of drug-usage. The usage of the system will not be available to the general public. The skills of these individuals will vary in expertise of computing knowledge, but will only require minimal internet experience to use.

# APPLICATION AND DEVELOPMENT ENVIRONMENTS

## Application Environment of the Proposed System

### Hardware Requirements

Algonquin College will cover 100% of all hardware costs relevant to setup and testing of the NCR System. Non-compliance with this Hardware Requirement will pose a high risk on the project, and may jeopardize the development schedule of the NCR System.

### Software Requirements

Algonquin College will cover 100% of all software costs relevant to developing the Community reporting App for Drug and Organized Crime Awareness System. There are no risks involved.

### Data Requirements

The client shall provide access to sample pictures of drugs for the website. Non-compliance with this Data Requirement will not pose any risk to the development schedule.

## Development Environment of the Proposed System

### Hardware Requirements

Algonquin College will supply the following hardware development system to the project group.

* One Windows Server

### Software Requirements

The system will be developed using the current versions of Microsoft Visual Studio, SQL Server and IIS. The project documentation will be developed using the current versions of Microsoft Word, Microsoft Project, and Microsoft Visio. Since the project group has licensed copies of all this software and is very familiar with its use, the software development suite is considered low risk.

### Data Requirements

The client will supply the source code and any documentation that belongs with it of the previous iteration of the NCR system to the team before the start of the development cycle.

### Research Requirements

The team will have to do some research on drugs that are illegal/legal to familiarize ourselves with certain terms used on the current implementation of the system.

# FUNCTIONAL REQUIREMENTS

Functional requirements are functions or features that must be included in the system to satisfy the project needs and be acceptable to the client.



## The Scope of the Work – The Proposed System’s Context Diagram

User: Individuals who will be accessing the website who are not administrators. A user is granted access to the website after requesting an account and having admin approval.

System: A web application that allows users to submit information that can be retrieved by administrators.

Admin: An account that has privileges to view reports submitted by users. Administrator have access to additional site features.

## Functions Provided by the Project

The following section identifies the hardware and software functionality requirements for the project. Each hardware and software requirement listed is prioritized as Essential, Useful, or Desirable as defined below:

*Essential*: Requirements that must be met by the system.

*Useful*: Requirements that would make the system more effective.

*Desirable*: Requirements that would make the system more attractive to the users.

a. Hardware Functional Requirements

The project will not deliver any hardware functional requirements.

b. Software Functional Requirements

The following functional requirements will be addressed by the project.

### Essential Requirements

|  |  |
| --- | --- |
| SWE1: | The existing user interface shall:  •Be simplified  •Display latest updates on home page |
| SWE2: | The existing administrator user interface shall be updated:  •Search options shall be grouped by category  •Search filters shall be improved |
| SWE3: | Drug description options shall be modified allowing the user to:  •Enter the size and shape of the drug  •Enter street price of purchased drug  •Upload pictures |
| SWE4: | Users shall be provided with links that administrators have selected based on drug type |
| SWE5: | The chart creation tools shall work as intended and be simplified |
| SWE6: | Map diagram shall provide detailed information for administrators when hovering over different map zones. |

### Useful Requirements

|  |  |
| --- | --- |
| SWU1: | Database data from partnering organizations shall be imported. |
| SWU2: | High priority messages shall be available to send to registered users. |
| SWU3: | Community members shall be allowed to register on the website as a third party contact. |

### Desirable Requirements

|  |  |
| --- | --- |
| SWD1: | Database data from partnering organizations shall be imported. |
| SWD2: | All text on the website shall be read from a resource package that can be translated to different languages. |

# NON-FUNCTIONAL REQUIREMENTS

There are many non-functional requirements listed in this document, and not all of them might be applicable to your project.

Note: Use only the non-functional requirements categories that make sense for your project. The Volere template also contains several additional categories that might be well suited to your project.

## Mandated Constraints

### Delivery date

The delivery for this project is **December 7th 2012.**

### Solution Constraints

This project must not be associated with the RCMP.

Users must be granted approval before using the website.

Information submitted by users must be anonymous to protect their identity.

## Look and Feel Requirements

### The Interface

The interface shall be redesigned to match the following requirements. The following section prepends the following acronym to its requirement number, ISW, this stands for Interface Software.

#### The Overall Look and Feel

|  |  |
| --- | --- |
| ISWE1: | The interface shall use a consistent color theme across the system. |
| ISWE2: | The Interface shall not use red for general data, red shall be used for information. |
| ISWE3: | The interface shall effectively use negative space to draw the user’s attention to the content. |
| ISWE4: | The system shall provide icons to visually display sorting, messages. |
| ISWE5: | The interface shall be the same size on every page. |
| ISWE6: | The search functionality shall be visually separate from the content. |

#### General Entries Requirements

|  |  |
| --- | --- |
| ISWE7: | The interface shall visibly separate the data display to make it easier to parse the information. |
| ISWE8: | The interface shall provide the ability to display more details including a picture and link, when requested. |
| ISWE9: | The interface shall display a map on the following pages: New Entry, Edit Entry, and View Entry. |
| ISWE10: | The contributor’s link shall provide the user with the ability to search for the entries by the user, message the user and view the user’s profile. |
| ISWE11: | The Comments link shall be renamed to Additional Information. |
| ISWE12: | The interface shall display a 2 column display, the left column supporting search and showing items that are not selected, and the second column shows the selected items. |
| ISWE13: | The search provided in SWE12 shall also provide the ability to add new side effects and automatically filter with wildcards. |

#### The Entries List Page

|  |  |
| --- | --- |
| ISWE14: | The search functionality will not have the ability to search by entry number. |

#### The View Entry Page

|  |  |
| --- | --- |
| ISWE15: | The interface shall provide the ability to generate reports based on the following fields from the view entry page: Zones, Gender, Age, Drug Type, Drug, Drug Street Name, Drug Form, and Drug Colour. |

#### The Zones Page

|  |  |
| --- | --- |
| ISWE16: | The interface shall allow the user to select a given and view a given report in the recent entries section. |
| ISWE17: | The interface shall provide more information in the hover bubble. |
| ISWE18: | The interface shall provide a preset report for a given region. |

#### The Reports Page

|  |  |
| --- | --- |
| ISWE19: | The interface shall provide a list of preset reports that are visibly easy to see. |
| ISWE20: | The interface shall break up the custom reports page into multiple pages to make it easier to parse information |
| ISWE21: | The interface shall display a map when selecting by region. |
| ISW21: | The interface shall use tables to display the information. The table shall use 2 interchanging  colours on the rows. |

#### The Contributors Page

|  |  |
| --- | --- |
| ISWE22: | The table shall use a heading color. |
| ISWE23: | The table shall use 2 interchanging colours on the rows. |
| ISWE24: | The table shall add a bit of padding to make it visually pleasing. |

#### The Administrator Page

|  |  |
| --- | --- |
| ISWE25: | The administrator page shall be broken up to independent pages. |
| ISWE26: | The administrator checkbox lists shall be changed to a table layout. |
| ISWE27: | This table layout shall provide the ability to edit and delete individual items, as well as providing icons to make it visually distinct. |
| ISWE28: | A page to add new items will be added, this will include fields for a description, image and URL. |

#### The Home Page

|  |  |
| --- | --- |
| ISWE29: | The interface shall display recent entries and bulletins as threaded entries. |
| ISWE30: | The interface shall now provide a link to go the home page. |
| ISWE31: | The interface will provide the ability to click entries and bulletins, linking directly to the entry or bulletin. |

#### The About Page

|  |  |
| --- | --- |
| ISWE32: | The system shall have an about page |
| ISWE33: | The system shall display information on itself. |
| ISWE34: | The system shall display information on the developers, including Riftpoint Development and The Alpha Development Team. |

## Usability

### Ease of use

|  |  |
| --- | --- |
| URSWE1: | The system shall provide the ability to generate predetermined reports in the entries module and the map module, as per interface requirements ISWE15 and ISWE16. |
| USRWE2: | The system shall provide more detailed information on drug types, as per ISWE8 and ISWE26. |
| USRWE3: | The reports page shall have broken up into multiple pages, as per requirement ISWE20. |
| USRWE4: | The system shall visually display the sorting, as per requirement ISWE4. |
| USRWE5: | The interface shall display a 2 column display for the adding of side effects, the left column supporting search and showing items that are not selected, and the second column shows the selected items, as per requirement ISWE12. This will make the interface easier to use as it is visually easy to determine what is chosen and what has been created. |
| USRWE6: | The interface shall be easy to understand and to pick. |
| USRWE7: | The interface shall be more visibly pleasing, encouraging users to come back. |

# DELIVERABLES

At a minimum, the following constitute the deliverables of your project.

## Project Deliverables

The following list constitutes the project deliverables:

* Analysis Document set
* Design Document set
* Documented Source Code
* Test Plan and Test Results
* Supporting Manuals - User manuals, Installation manuals
* Tested Client Software in executable format

## Course Deliverables

The following list constitutes the course deliverables:

* Project Group and Individual Time Logs
* Project Presentation