**1 Introduction**

* 1. **Purpose**

The purpose of this document is to provide a detailed description of the functionality and

technology of the Communicable Disease and Analytical System. Therefore this document is to establish the major requirements necessary to develop the system. It will explain the purpose and features of the system, the interfaces of the system, what the system will do, constraint under which the system must be operate. This document will also cover the research aspect that lies behind the building of the Communicable Disease and Analytical System Application.

Therefore this document is intended for both the users and the developers of the system.

* 1. **Scope**

This document covers the requirements of the Communicable Disease and Analytical System

Applications, describing all the functionalities, the hardware, software and research limitations that the system must adhere to.

The Communicable Disease Control and Analytical System (CDCAS) will integrate following technological components.

* GIS System will generates maps showing spreading of epidemic diseases maps are dynamically generated according to inputs provided. ex: - time, disease.
* Online Analytical Processing (OLAP) will generate statistical data from the huge data trends to the users who use this system. This data will deliver as a web interface. So this provided information’s can be used for guide interventions for the users who use the system for their educational purposes or research purposes.
  1. **Definitions, Acronyms, and Abbreviations**

**Abbreviations**

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| API | Application programed Interface |
| CDCAS | Communicable Disease Control and Analytical System |
| OLAP | Online Analytical Processing |
| DB | Database |
| DBMS | Data Base Management System |
| GUI | Graphical User Interface |
| SQL | Structured Query Language |
| OS | Operating System |
| GIS | Graphical Information System |
| PC | Personal Computer |
| HSDPA | High Speed Downlink Packet Access |
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**1.4 References (place this at the end of the document)**

“ Yaso This part will do us finally This has to come end of the document….”

* 1. **Overview**

The goal of our project team is to create a web based application for handle epidemic diseases in Sri Lanka. The system will generate web application for users with controls to customize statistics, Graphical representation of data using Charts and Graphs, Online Analytical Processing (OLAP) to generate to execute complex statistical models.

Our system is a kind of a helper for users such as students, doctors, researchers, the government and etc.. and also they can use this system for decision making ,get the understanding about how the epidemic diseases are spreading and the time period of the diseases and how the diseases are affected to the country. Therefore in further pages of this document will describe how the project team is planning to develop the Communicable Disease Control and Analytical System Application.