**ASRC**

***<Project Name>***

**Design Document**

**Prepared by: *<Team Member Name>***

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#  Introduction

## 1.1. Purpose

This document will go over in detail about the design and architecture that is currently present in the ***<Project Name>*** application.

##  1.2. Scope

The main goal of the ***<Project Name>*** application is to provide ***<Describe purpose of Project>***. Any number of users can run the same application at the same time, whether they are a member of the same group or an admin. Ease of use is a main goal with this application, so it can be used by any user.

##  1.3. System Environment

The minimum version requirement of ***<Operating Environment Requirement(s)>***. Any later version is compatible.

##  1.4. UI Design

This section will provide snapshots of key interfaces that the user will interact with within the ***<Project Name>*** application.

####  <add snapshots here>

# 2. Use Case Diagram

**Actors:** General User, Admin

The following use Case Diagram shows all the actions that the Actors above can perform while using the ***<Project Name>*** application.

#### <add use case diagram here>

# 3. Analysis Class Diagrams

##  3.1. General User

The Following Analysis Class Diagram shows all the classes a General User will interact with.

####  <add analysis class diagram here>

## 3.2. Admin

The Following Analysis Class Diagram shows all the classes a Group Admin will interact with.

####  <add analysis class diagram here>

# 4. Class Diagrams

## 4.1. Overview

Gives an overview of all the Classes used within the ***<Project Name>***

Application. This overview does not include Fields and Functions to give a quick insight on how the classes interact.

####  <add class diagram here>

## 4.2. Main Activity and User Classes

Shows Class Diagrams for the Main Activity and all Classes associated with a User to show how these classes interact.

####  <add class diagram here>

## 4.3. Report Log and File Classes

Shows Class Diagrams for all Classes associated with the Report Log to show how these classes interact.

####  <add class diagram here>

# 5. Activity Diagram

This Activity Diagram is used to model system behaviors throughout the ***<Project Name>*** application. Shows step-by-step activities a user can perform while using this application.

####  <add activity diagram here>

# 6. Sequence Diagrams

##

##  6.1. User actions

### 6.1.1 <User action>

The following Sequence Diagram shows the ***<User action>*** process.

####  <add sequence diagram here>

###  6.1.2. <User action>

The following Sequence Diagram shows the ***<User action>*** process.

####  <add sequence diagram here>

###  6.1.3. <User action>

The following Sequence Diagram shows the ***<User action>*** process.

####  <add sequence diagram here>

###  6.1.4. <Admin action>

The following Sequence Diagram shows the ***<Admin action>*** process.

####  <add sequence diagram here>

## 6.2. File Reading and Writing

###  6.2.1. Write Output Report

The following Sequence Diagram shows the Write Output File process within the ***<Project Name>*** application.

####  <add sequence diagram here>

###  6.2.2. Write Error Log

The following Sequence Diagram shows the Write error log file process within the ***<Project Name>*** application.

####  <add sequence diagram here>

###  6.2.3. Read Input File(s)

The following Sequence Diagram shows the Read Input File process within the ***<Project Name>*** application.

.

####  <add sequence diagram here>

###  6.2.4. Writing Information to the Database (if applicable)

The following Sequence Diagram shows how information is written to the Database within the ***<Project Name>*** application.

.

####  <add sequence diagram here>

### 6.2.5. Removing Information from the Database (if applicable)

The following Sequence Diagram shows how information is removed from the Database within the ***<Project Name>*** application.

####  <add sequence diagram here>

# 7. Glossary of Terms

|  |  |  |
| --- | --- | --- |
| **#**  | **Term**  | **Description**  |
| 1  | ***<Term>*** | ***<Description>***  |
| 2  | ***<Term>*** | ***<Description>***  |
| 3  | ***<Term>*** | ***<Description>***  |

# 8. Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| **Version**  | **Date**  | **Updated By**  | **Comments**  |
| 1.0  | ***<MM/DD/YYYY>*** | ***<Team Member>***  | Initial document creation  |
|   |   |   |   |