**Software Engineering Group Project**

**AUM Group**

**Design Specification Document**

Author:

Config Ref: SE\_JC\_DS\_01

Date: 22 March 2018

Version: 1.0

Status: Draft

Department of Computer Science

Aberystwyth University (Mauritius Branch Campus)

UniCiti, Coastal Road

Flic-en-Flac

Copyright © Aberystwyth University 2018

**CONTENTS**

[1. INTRODUCTION 3](#_Toc509169163)

[1.1. Purpose of this document 3](#_Toc509169164)

[1.2. Scope 3](#_Toc509169165)

[1.3. Objectives 3](#_Toc509169166)

[2. DECOMPOSITION DESCRIPTION 4](#_Toc509169167)

[2.1. Programs in system 4](#_Toc509169168)

[2.2. Significant classes in each program 4](#_Toc509169169)

[2.2.1. Significant classes in Program 1 4](#_Toc509169170)

[2.2.2. Significant classes in Program 2 4](#_Toc509169171)

[\*\*2.2.n Significant classes in Program n 4](#_Toc509169172)

[2.3. Modules shared between programs 4](#_Toc509169173)

[2.4. Mapping from requirements to classes 4](#_Toc509169174)

[3. DEPENDENCY DESCRIPTION 5](#_Toc509169175)

[3.1. Component Diagrams 5](#_Toc509169176)

[3.1.1. Component Diagram for Program 1 5](#_Toc509169177)

[3.1.2. Component Diagram for Program 2 5](#_Toc509169178)

[4. INTERFACE DESCRIPTION 6](#_Toc509169179)

[4.1. Class 1 interface specification 6](#_Toc509169180)

[4.2. Class 2 interface specification 6](#_Toc509169181)

[5. DETAILED DESIGN 7](#_Toc509169182)

[5.1. Sequence diagrams 7](#_Toc509169183)

[5.2. Significant algorithms 7](#_Toc509169184)

[5.3. Significant data structures 7](#_Toc509169185)

[6. REFERENCES 8](#_Toc509169186)

[DOCUMENT HISTORY 8](#_Toc509169187)

# **1. INTRODUCTION**

## **1.1. Purpose of this document**

## **1.2. Scope**

## **1.3. Objectives**

# **2. DECOMPOSITION DESCRIPTION**

## **2.1. Programs in system**

## **2.2. Significant classes in each program**

## **2.2.1. Significant classes in Program 1**

## **2.2.2. Significant classes in Program 2**

## **\*\*2.2.n Significant classes in Program n**

## **2.3. Modules shared between programs**

## **2.4. Mapping from requirements to classes**

# **3. DEPENDENCY DESCRIPTION**

## **3.1. Component Diagrams**

## **3.1.1. Component Diagram for Program 1**

## **3.1.2. Component Diagram for Program 2**

# **4. INTERFACE DESCRIPTION**

## **4.1. Class 1 interface specification**

## **4.2. Class 2 interface specification**

# **5. DETAILED DESIGN**

## **5.1. Sequence diagrams**

## **5.2. Significant algorithms**

## **5.3. Significant data structures**

# **6. REFERENCES**

# **DOCUMENT HISTORY**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Version* | *CCF No.* | *Date* | *Changes made to document* | *Changed by* |
| 1.0 | N/A | 18/03/18 | Creation of Design Specification Document | mai15 |
|  |  |  |  |  |
|  |  |  |  |  |