Date

SOFTWARE DESIGN DOCUMENT

# PROJECT NAME – MUSOPLAN

## Written by – Smita Jacob

# INTRODUCTION

Globex is wanting to develop MusoPlan - a software solution that will be used by the music management team to help model and predict the success of Globex's elite musicians by identifying costs when deploying them as a troupe. This document is being created in-line with the requirements discussed with the Music Team Management Officer at Globex. It is important that this organisational software adheres to version control requirements and is not only world class, but repeatable, and explainable.

## A. Heading 2

### i. To easily apply any text formatting you can see in this outline with just a tap, in the Home tab of the ribbon, take a look at Styles.

### ii. For example, this paragraph uses Heading 3 style.

# SYSTEM OVERVIEW

Musoplan needs to cater to the following requirements:

i. Create a musician

a. Select whether the musician is a guitarist, bassist, percussionist, or flautist

b. Record their name, years playing, and hourly rate

ii. Create a troupe

a. Record the name, minimum duration, genre

iii. Add a musician to a troupe

iv. Provide a summary description of a troupe

v. Provide a detailed description of a troupe

vi. Calculate the cost of deploying the troupe for a given number of hours

vii. Read a list of troupe names to be populated from a file

viii. Write a list of the detailed descriptions for all troupes to a given filename

# DESIGN CONSIDERATIONS

1. Assumptions and Dependencies

a. All troupes have 5 members only

b. Musicians are hired as part of a troupe and not individually

c. A musician can only be the member of one troupe

d. The hourly rates of troupe are independent of the hourly rates of the musicians in it

2. General constraints

The constraints for the Musician and Troupe entities are as follows:

Musician data constraints are

· Name should be between 3 and 30 characters

· Musician must play one of the four instruments below

· Years of playing the instrument must be non-negative

· Hourly rate must be over 50

Troupe data constraints are

· Name between 3 and 30 characters

· No more than 5 musicians

· Valid genre from (rock, jazz, pop)

· Minimum duration in hours between 0.5 and 3

3. Goals and Guidelines

The goal of the software is to give the Musician Team Officer the ability to link 5 musicians to each troupe and then draw a list of troupes or descriptions of troupes, as needed.

The guideline is that the data entry be element by element and version control be adhered to as industry best practices.

4. Development Methods

# ARCHITECTURAL STRATEGIES

Want to insert a picture from your files or add a shape or text box? No problem! In the Insert tab of the ribbon, simply tap the option you need.

Find even more easy-to-use tools in the Insert tab, such as tools to add a hyperlink or insert a comment.

# SYSTEM DESIGN

Want to insert a picture from your files or add a shape or text box? No problem! In the Insert tab of the ribbon, simply tap the option you need.

Find even more easy-to-use tools in the Insert tab, such as tools to add a hyperlink or insert a comment.