SOFTWARE REQUIREMENTS SPECIFICATION DOCUMENT

for

Family Tree Generator

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1. Introduction

1.1 Purpose

The purpose of this program is to make it easier for its users to save family information and to better protect them in digital environment.

1.2 Scope

Our program is an application which helps its users to create, save and edit their family trees.

1.3 Document Overview

This document is divided into three chapters. Currently, you are reading the first chapter which is the introduction part. The second chapter gives full description of the project and lists all the functions that shall be provided by the system. Third chapter is about interfaces. Final chapter concerns about the details of the system functions and the requirements.

2. Overall Description

2.1 Product Perspective

Our project database system stores the general information about a person such as a person's name, surname, and date of birth. It will also store the relative statuses. Our project shall be able to correctly display the relationship between family members and display the relationships. This project will help the user to reach a better understanding of the connections that family members have with each other.

2.2 Product Functions

Our project's functions are as follows; create, edit, export, and import. Create part can be summarized by creating a brand-new family tree for the user to fill. Edit allows the user to edit data when needed and keep the user from starting from scratch. This can be used to correct any mistakes that have occurred during the create part or update the family tree as the data stored might be outdated. Import and export are for carrying out the data and expanding the family tree when the conditions are met. What this means is that when two families merge, our project should be able to import the two existing family trees, accurately merge them and export the final version of the family tree for use.

2.3 Assumption Dependencies

Users should be using the Windows operating system and should have Java installed. Users should know the English language as there will not be any other language support. Some performance requirements should be met for optimal use.

3. Functional Requirements

3.1 Create Family Tree

Description and Priority

Users will be able to create a new family tree for any person.

Functional Requirements

REQ-1: Users should be able to create a family tree.

3.2 Edit Existing Family Tree

Description and Priority

Users will be able to change existing family trees.

Functional Requirements

REQ-1: Family trees should be editable.

REQ-2: Before editing existing family trees, whichever family tree data the user wishes to manage should be identified.

3.3 Load Family Tree

Description and Priority

Loading will allow users to load their selected family tree file.

Functional Requirements

REQ-1: Users should click on the "load" tab and select the family tree to load.

3.4 Save Family Tree

Description and Priority

Saving will allow users to save their selected family tree file.

Functional Requirements

REQ-1: Users should be able to select which family tree to save.

4. Nonfunctional Requirements

REQ-1: For the customer to use any feature without any performance related inconvenience, our recommendation is to use a system which can run Windows 10/11.

REQ-2: The application GUI provides an easier use for the people who are not comfortable with using any command line.

REQ-3: The system should have Windows installed for the program to work.

REQ-4: The program shall be available in English.

REQ-5: The program should import or export the family trees.

REQ-6: The program should have a database for more than one family tree.

REQ-7: The program should have a backup system to avoid data loss in case the program crashes.