SE 302

Principles of Software Engineering

Software Requirements Document

for

Family Tree Builder

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I. PREFACE

I.I. Document Version

- Document Version: 1.2

I.II. Change History

- **v1.2**
  - Fixed a slightly inaccurate information.
  - Changed the indentation style of numbered lists.
  - Changed page orientation.

- **v1.1**
  - Added more functionalities to the project.
  - Updated the project scope according to the new functionalities.

- **v1.0**
  - Initial version

II. INTRODUCTION

II.I. Purpose of the Project

- The purpose of this project is to develop a practical application that allows user(s) to view or edit their family tree. The project aims to increase user experience by creating a modern interface. In this way, users will not have to draw their own family tree physically to a paper, which might be lost or crumpled. Also, user(s) will not have to remember every single one of their relative after adding them to the program for the first time.

II.II. Scope of the Project

- By using the functionalities[1] which this program provides, the user(s) should be able to add their unique family members to a family tree and delete or edit them as he/she pleases. Then, user(s) can do specific tasks, such as searching for the information of family members, checking the relation between two family members, merging two family trees (in such cases like marriage), and creating an image file of their family tree.
- This program shall be available for local use only, thus having an internet connection will not be necessary.

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[1] *Functional Requirements* *(Page 5)*

III. OVERALL DESCRIPTION

III.I. Functional Requirements

- User(s) should be able to create new family trees.
- User(s) should be able to add new family members with their name, surname, age, and birthday (optional) information.
- User(s) should be able to search family members by filtering their name, surname, age, or birthday.
- User(s) should be able to see a family member's information in split view.
- User(s) should be able to check the family relation between two selected family members.
- User(s) should be able to merge two family trees into one.
- User(s) should be able to import or export a family tree as raw data to load or save the tree respectively.
- User(s) should be able to create an image file of their family trees.
- User(s) should be able to undo/redo the changes made in the current session.
- The program shall warn the user(s) if they are trying to delete a family member who has a child.
- The program shall list the recent files.
- The program shall be able to highlight the changes that were made in the current session before saving.
- The program shall keep the latest changes as a draft if user(s) closes the program without saving.

III.II. Non-Functional Requirements

- The OS[2] must be Windows 10. Using any other OS may cause compatibility issues.
- Minimum hardware requirements are the following:
  - 1 GHz CPU
  - 500 MB Disk Space
  - 1 GB RAM
- User(s) shall run the setup file as administrator to avoid any technical problems.[3]

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[2] Abbreviation of "Operating System"
[3] How to run a file as administrator: https://www.digitalcitizen.life/run-as-admin/