# Requirements Document

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## Summary

* 1. “Implement an app that keeps track of relationships between people and family genealogies or family trees. Family trees allow the user to determine ancestors and descendants of any person. Often family trees are incomplete especially during research to create them (there may be many people in them, some connected to each other and others not yet or ever connected). This app should allow storage and searching of arbitrarily complex sets of people partially connected into one or more family trees. Since children result from partnering between the child’s biological parents, the app includes records of partnership and any offspring associated with that partnering. Children are related to both their biological parents and parents may be in more than one partnership at the same or different times. It is required to trace all children of each person across all partnerships. It is required to trace upwards from any child to all their biological ancestors. It is required to trace downwards from any person to their descendants.”

## Purpose

* 1. The purpose of this application is to provide a way to allow users to document their family trees, see a readily understood depiction of their connections and relationships, as well as potentially discover familial connections with other users.

## Requirements

### Functional

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| --- | --- |
| **Req #** | **Requirement Description** |
| **1** | Data import   * Users can import data into the program with text files. * Users can update data in the program with text files. * Member information includes full name (last, first), birth date & place, death date & place (if applicable), and relationship to other members (beginning & end dates). |
| **2** | Manual data addition   * Users can manually add/remove members and data in the program. * Users can manually update member data in the program |
| **3** | Member search   * Users can search within the entire database or within their own tree. * Users can search for members by name, place, and birthdate. * Users can see the corresponding information for the member that they search for.   + Name, birth date & place, relationships to other members & offspring, death date & place (if applicable). |
| **4** | Common Relationships   * Users can view members that are related to them and other members (including other trees) to determine more distant relationships. |
| **5** | Display   * Display family trees depicting all members and their names, relationship connections, and summary of information (birth to death years & current location).   + Click on a specific member to see more of their information (birth place, death place, etc.) |
| (6) | Data export   * Users can export their family tree data as an image file of the tree depicting all members and their relationships or as a text file in the original import format. |

## Cycle Deliverables

### Cycle One

* + 1. Non-functional
       1. Requirements Document - *complete*
       2. Use Cases Document - *complete*
    2. Functional
       1. Read-in Functionality (req. #1)- *pending*

### Cycle Two

* + 1. Non-functional
       1. Design, decomposition, components
       2. Formal inspection
       3. Peer feedback
    2. Functional
       1. Manual data addition (req. #2)
       2. Member Search (req. #3)

### Cycle Three

* + 1. Non-functional
    2. Functional
       1. Common relationships (req. #4)
       2. Display (req. #5)