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| Use case | Genealogy App |
| Actors | User, Local file system |
| Purpose | A program that creates a family tree that can be added too and searched through. |
| Overview | A text file is imported and read into family Graph. Either you can search through the family tree or add to the family tree. If wont add people anymore then the file can be exported as .csv file. Can display tree when requested. |
| Type | Essential |
| Pre-conditions | Import file/add New Person |
| Post-Conditions | If requested to display, then file is exported with all data to print familyGraph |
| Special requirements | If adding new person Punctuation is crucial. |

Flow of events

Actor Action System Response

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| 1.This use case begins when FamilyGraph menu loads And the User Imports a formatted text file. | 2. System reads file from Local file System. The menu is brought up again when finished |
| 3. The user request to add a new Person from the menu. | 4.System adds this new Person data to the family tree. Then when done back to menu |
| 5.The user request to search through familyGraph by Using a name.(Last or first name, or Full name) | 6. System looks through family tree printing every person with same name. |
| 7.User request to export current FamilyGraph in menu | 8. System exports the family Graph data into a output file. Then back to menu |
| 9. User request to print the familyGraph in menu. | 10. The System Prints all data related to familyGraph |

Alternative Flow of Events

Line 2: If there is no file to be imported or doesn’t exist then the user is expected to create the family tree by adding New People or terminating the System.

Line 4: If the user wasn’t added correctly because of Punctuation then the user is brought back to menu where can try adding again

Line 6: If the user didn’t type in the right name when searching then nothing will happen and the user is brough back to menu.

Line 8: User is expected to have at least 1 person if not the menu will come back up.