

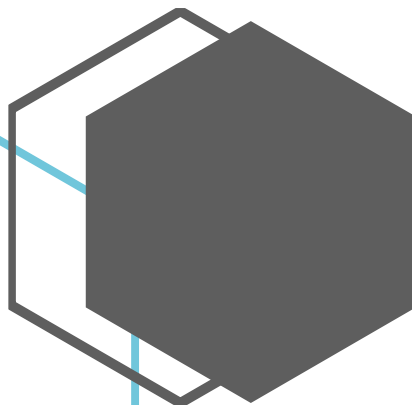


CSCI 3901 - Project

Milestone 2

Name: Benny Daniel Tharigopala

Banner ID: B00899629



Black Box Tests

1. Add Persons to the Database:

- Add a person to the database when no other individuals exist in the database.
- Add a person to the database when 1 individual exists in the database.
- Add a person to the database when many individuals exist in the database.
- Add a person with an invalid name (Null / Empty String / Special characters).
- Add a person with a name that's identical to an existing name in the database.

2. Record Attributes of Persons:

- Record valid attributes of a person who exists in the database.
- Record valid attributes of a person who doesn't exist in the database.
- Update the attributes of a person who exists in the database.
- Update the attributes of a person who doesn't exist in the database.
- Record the birth date of a person where the date is greater than the current date.
- Record the death date of a person where the date is greater than the current date.
- Record attributes of a person without birth date, that is, all attributes **except** birth date are provided.
- Record attributes of a person without gender.
- Record attributes of a person without occupation.

3. Record a Reference Material for Persons:

- Record a material for a person who exists in the database.
- Record a material for a person who doesn't exist in the database.
- Record multiple materials for a person who exists in the database.

4. Record Notes for Persons:

- Record notes for a person who exists in the database.
- Record notes for a person who doesn't exist in the database.
- Record multiple notes for a person who exists in the database.

5. Record a Child for Persons:

- Record a valid (existent) child for a person who exists in the database.
- Record a child for a person who doesn't exist in the database.
- Record a relationship between the same child and parent multiple times.
- Record multiple children for a person who exists in the database.
- Record a child for a person who exists in the database when the child does not exist.

6. Record a Partnering Relation between Persons:

- Record a partnering relation between people who exist in the database.
- Record a partnering relation between two people who already have a symmetric partnering relation defined.
- Record a partnering relation between people when one person doesn't exist in the database.
- Record a partnering relation between people when both individuals do not exist in the database.
- Record a partnering relation between two people who have a symmetric dissolution relation defined **between them**.
- Record a partnering relation between two people who have a symmetric dissolution relation defined **with other people**.

7. Record a dissolution of a Partnering Relation between Persons:

- Record a dissolution between people who exist in the database and had a partnering relation defined between them.
- Record a dissolution between people who exist in the database but do not have a partnering relation defined between them.
- Record a dissolution between two people who already had a dissolution of relation defined between them.
- Record a dissolution between people when one person doesn't exist in the database.
- Record a dissolution between people when both individuals do not exist in the database.
- Record a dissolution between people who exist in the database and have a partnering relation defined **NOT** between them but with other Persons.

8. Add Media Files to an Archive:

- Add a media file to the archive.
- Add a media file to the archive when the location of the file already exists in the archive.
- Add a media file with an invalid file path.

9. Record Attributes of a Media file in the Archive:

- Record valid attributes of a media file which exists in the archive.
- Record valid attributes of a media file which doesn't exist in the archive.
- Update the existing attributes of a media file with new ones.
- Record date for a media file when the date is greater than the current date.

10. Record People in Media Files:

- Record People in a file when both the file and people exist.
- Record People in a file when any one of the file and people don't exist.
- Record People in a file when both the file and people don't exist.
- Record redundant information. That is, record that a set of people exist in a media file, multiple times.

11. Record tags for Media Files:

- Record tags for a file which exists in the archive.
- Record tags for a file which doesn't exist in the archive.
- Record empty tags for a file.
- Record multiple tags for a same media file.

12. Report:

- Locate an individual when the individual exists in the database.
- Locate an individual when the individual doesn't exist in the database.
- Location an individual when the individual's name is empty. That is, pass an empty string while attempting to locate a person.
- Locate a media file when the file exists in the archive.

- Locate a media file when the file doesn't exist in the archive.
- Location a media file when the file path is empty. That is, pass an empty string while attempting to locate a media file.
- Report a person's name when the person exists.
- Report a person's name when the person does not exist.
- Report relations when two people exist.
- Report relations when any one person does not exist.
- Report relations when two people do not exist.
- Report relation between people who have direct ancestor descendant relationship.
- Report relation between people who do not have direct ancestor descendant relationship (Pibling and Nibling included).
- Report ancestors / descendants of a person

Feature Development Plan

| Date | Feature |
|------------|---|
| 14-11-2021 | Decide on appropriate Data Structures, Create Tables in the Database, Develop Detailed test cases for all methods, Finalize design flow. |
| 17-11-2021 | Develop methods which record information, Develop methods which display information, Develop code to handle exceptions, |
| 20-11-2021 | Develop core logic for returning relations between persons, Develop logic for returning ancestors and descendants Develop logic for returning immediate descendants Develop logic for returning names of people who appear in a media file Develop logic for returning media files within a given date range / tags / person names Develop logic for returning ancestors and descendants |
| 25-11-2021 | Develop code to store all relevant output in a database |

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| 28-11-2021 | Perform actual black box tests to ensure that the flow of the code is as expected |
| 01-12-2021 | Revise code and correct errors |
| 05-12-2021 | Perform unit tests with Junit |
| 08-12-2021 | Revise and complete all documentations |