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| **CSCI 3901 - Project** |
| Milestone 2 |
| **Name: Benny Daniel Tharigopala**  **Banner ID: B00899629** |
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# **Black Box Tests**

## 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.

## 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.

## 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.

## 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.

## 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.

## 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.**

## 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.

## 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.

## 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.

## 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.

## 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.

## 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 ancestor descendant relationship.

# **Feature Development Plan**

# **Citations**

1. <https://en.wikipedia.org/wiki/Genealogy>