

## PROJECT MILESTONE 2

### Blackbox test cases

#### 1) Adding a person.

- Add 1 person into system
- Add 3 people into the system
- Add n people when there are many existing in the system
- Add people with same name
- Add a person with no name

#### 2) Recording details of the person.

- Add details of a person that does not exists
- Add details of a person which is same as details of another person
- Details that are not practically possible ex: DOB 31/2/2023
- Details of a person with name containing single letter
- Details of a person with no occupation
- Details of a person with no gender
- Detail of a person with no DOB
- Details of a person with empty details for all the attributes

#### 3) Record References

- Add references to a person that does not exists in the system
- Add reference to a person whose who already have references
- Add multiple references to a single person
- Add single word references
- Add single letter references
- Add website link references
- Add location references

#### 4) Record Notes

- Add notes to a person that does not exists in the system
- Add notes to a person whose who already have multiple notes
- Add multiple notes belonging to the same person
- Add single word notes
- Add single letter notes

### **5) Record Parent child relations**

- Record parent child relation between 2 individuals
- Record when parent has already 1 child relation defined
- Record when child has already 1 parent relation defined
- Record when parent does not exist in the system
- Record when child does not exist in the system
- Record when the relation is already defined

### **6) Record Partnering relation**

- Record partner relation between 2 individuals
- Record when partner has already 1 relation defined
- Record when both partners does not exist in the system
- Record when one partner exits in the system
- Record when the relation is already defined

### **7) Record dissolution**

- Record dissolution relation between 2 people
- Record dissolution when there was no predefined partnering relation
- Record dissolution when one partner does not exist
- Record dissolution when both partners does not exist
- Record when there has already been dissolution that exits

### **8) Add Media files**

- Add Media file to the location which has 2 letters
- File location when there are no previous files
- File location when there are previous files that exits

### **9) Record media details**

- Record when media does not exist
- Record when media exits
- Record when media already contains details
- Record when details are empty
- Record when empty attributes are passed

#### **10) Record people in media details**

- Record media details for one person in the list
- Record media details for many people in the list
- Try to record when the file is not present
- Try to record details when people are not in the list
- Try to record when there already exists details.
- Try to record details when their people in the list have details associated to them.

#### **11) Record Tag on Media**

- Record Tags for media files in the system
- Try recording Tags when media files don't exist
- Try recording when media files exist and not tags
- Try recording when media files exist and multiple tags exist.

#### **12) Reporting person back**

- Find person based on name
- Try to find person whose name does not exist
- Try to find a person whose name has just one letter

#### **13) Reporting files back**

- Find files based on names
- Finding a media file when no name is passed
- When files don't exist in the system.
- When file name doesn't exist in the system.
- Reporting people name based on personal identity

#### **14) Reporting relations.**

- Try reporting people name when no person identity exists.
- Try reporting files when file identifier is passed
- Reporting relation between people with biological relation
- Reporting relation between people with no direct relation between people
- Reporting all decedents of a person
- Reporting all decedents of a person up to a particular generation
- Reporting all decedents of a person when there are no descendants
- Reporting all ancestors of a person

- Reporting all ancestors of a person up to a creatin level

### 15) Reporting tags and media.

- Return the set of media files based on location, start date, end date.
- Return media files when only location is passed
- Return media files when start date is passed
- Return media files when end date is passed
- Find media files belonging to an individual based on start date end date
- Finding media files within some ranges of dates
- Media files with in some range of dates when no files exist
- Media files when both date ranges are same date
- Try fetching media files when no file exits between a range
- Try fetching files when dates are not valid
- Try finding media when the person does not exist
- Try finding media of a person's biological children
- Try to find media of children of a person when a person has no children.

### Feature Development plan

Date	Features	Details
15/11/2021	Initial structure  [Building data structure]	Start off by building the basic structure of the code and implementing and building custom Abstract data structures to store info.
17/11/2021	Core Fundamental features and algorithms.	Finalizing the working of implemented data structure to store information about indivual person identity and also aligning the approach with building and identifying relations between individuals

18/11/2021	[Building and identifying relations between individuals]	Traversing from an individual person or point in the data structure to other generations to identify and comparatively track the relation between individuals.
24/11/2021		Testing out the specific set of cases to completely cover all the conditionals and implement changes to the structure and logic to algorithm if any required.
26/11/2021	Data base connectivity	Building data base connectivity and testing and building out media storage features.
27/11/2021	Git Submission	Pushing of the code into the repository
29/11/2021	Unit testing and bug fixing	Testing out the code coving all cases to identify any missed flows, conditionals and correcting and revising logic for the same.
4/12/2021	Junit test cases and documentation	Testing end to end and documenting all the algorithms and data structures.