

# Black Box Testing

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`addPerson(String name ):`

- Null value as name
- Empty string as name
- Pass duplicate name which is already present in family tree

`recordAttributes( PersonIdentity person, Map<String, String> attributes ):`

- Pass null as person
- Pass null as attributes
- Pass null in both person and attributes
- Pass same attributes in different person
- Pass different attributes in same person
- Pass duplicate values in attributes
- Update the existing value which was stored

`recordReference( PersonIdentity person, String reference ):`

- Pass null as person
- Pass null in reference
- Pass empty string as reference
- Pass different reference for same person
- Pass same reference for same person
- Pass different reference for different person

`recordNote( PersonIdentity person, String note ):`

- Pass null as person in record note
- Pass null as note
- Pass empty string as note
- Pass same note for same person
- Pass different note for same person
- Pass different note for different person

`recordChild( PersonIdentity parent, PersonIdentity child ):`

- Pass null as parent
- Pass null as child
- Pass null for parent and child
- Pass parent and child relation in which relation is already exist
- Pass parent and child relation in which relation is already is not exist

`recordPartnering( PersonIdentity partner1, PersonIdentity partner2 ):`

- Pass null for partner 1 and/or null for partner 2
- Pass same partner 1 and partner 2 in which recordPartnering is exist
- Pass same partner 2 and partner 2 in which recordPartnering is not exist
- Pass partner 1 and partner 2 in which other relationship is exist

`recordDissolution( PersonIdentity partner1, PersonIdentity partner2 ):`

- Pass null for partner 1 and/or null for partner 2
- Pass same partner 1 and partner 2 in which recordDissolution is exist
- Pass same partner 2 and partner 2 in which recordDissolution is not exist
- Pass partner 1 and partner 2 in which other relationship is exist

`FileIdentifier addMediaFile( String fileLocation ):`

- Pass null as file location
- Pass empty string as file location
- Pass duplicate file location

`recordMediaAttributes( FileIdentifier fileIdentifier, Map<String, String> attributes ):`

- Pass null/empty string as file identifier
- Pass null/empty string as an attributes
- Pass same attributes for same file identifier
- Pass duplicate value in attributes
- Pass different attributes for same file identifier
- Pass different attributes for different file identifier

`peopleInMedia( FileIdentifier fileIdentifier, List<PersonIdentity> people ):`

- Pass Null/empty string as file identifier
- Pass Null/empty list for people
- Add duplicate name people in list of people
- Pass different list of people for same fileidentifier
- Pass same list of people for different fileidentifier
- Update list of people in list of people
- Remove list of people

`tagMedia( FileIdentifier fileIdentifier, String tag ):`

- Pass Null / Empty string as fileidentifier
- Pass null/ Empty string as tag name

- Add tag when tag is not assigned
- Add tag when there is already tags are assigned
- Add duplicate tag name

**PersonIdentity findPerson( String name ):**

- Pass Null / Empty string as name
- Pass person name which is not exist in data
- Pass person name which is just added in database

**FileIdentifier findMediaFile( String name ):**

- Pass Null / Empty string as name
- Pass file name which is not exist
- Pass file name which is just added

**String findName( PersonIdentity id ):**

- Pass Null / Empty id
- Pass id which is not exist in data
- Pass id which is added in data
- Pass id which is not valid

**String findMediaFile( FileIdentifier fileId ):**

- Pass Null / Empty field name
- Pass field which is not exist in data
- Pass field which is already exist in data

**BiologicalRelation findRelation( PersonIdentity person1, PersonIdentity person2 ):**

- Pass Null / Empty string as person 1 and/or person 2
- Pass person 1 data which is not exist in data
- Pass person 2 data which is not exist in data
- Pass valid data of person 1 and person 2
- Pass person 1 and person 2 in which there is no relation between them

**Set<PersonIdentity> descendants( PersonIdentity person, Integer generations ):**

- Pass Null / Empty string as person
- Pass Null/ 0 as string as generation
- Pass MAX number as generation
- Pass MIN number as generation
- Pass generation in which there is no descendent in tree
- Pass generation in which there are multiple descendent in tree

Set<PersonIdentity> ancestores( PersonIdentity person, Integer generations ):

- Pass Null / Empty string as person
- Pass Null/ 0 as string as generation
- Pass MAX number as generation
- Pass MIN number as generation
- Pass generation in which there is no ancestors in tree
- Pass generation in which there are multiple ancestors in tree

List<String> notesAndReferences( PersonIdentity person ):

- Pass Null / Empty string as person
- Pass invalid person name
- Pass valid person name

Set<FileIdentifier> findMediaByTag( String tag , String startDate, String endDate):

- Pass Null value / Empty string as dates
- Pass Null / Empty string as tag
- Pass Empty string as starting date and end date
- Pass valid date
- Pass invalid date
- Pass invalid tag
- Pass valid option name

Set<FileIdentifier> findMediaByLocation( String location, String startDate, String endDate):

- Pass Null / Empty string as location
- Pass startDate and endDate as Null / Empty value
- Pass valid dates in which files are present
- Pass dates in which files are available
- Pass invalid location which is not exist in data
- Pass location which is available in more than 2 locations

List<FileIdentifier> findIndividualsMedia( Set<PersonIdentity> people, String startDate, String endDate):

- Pass Null / Empty set as people
- Pass Null / Empty string of starting date and ending date
- Pass empty set of people
- Pass valid data as person
- Pass invalid data as person
- Pass person which is not exist
- Pass person which is exist in data

List<FileIdentifier> findBiologicalFamilyMedia(PersonIdentity person):

- Pass null as person
- Pass person in which records are not found
- Pass person in which records are found
- Pass valid data of person
- Pass invalid data of person

## **Plan of feature development:**

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- Finalizing data structure of project - 11/14/2021
- Tree based functionality – 11/16/2021
- Media based functionality – 11/18/2021
- Combining those both part and implement all function based on that functionality – 11/20/2021
- Reporting based functionality – 11/25/2021
- Validation of various functionality – 11/27/2021
- Create test plan for all functions - 11/30/2021
- Apply test case on every functionality – 12/2/2021
- Improve coding practice and optimize the code standard – 12/5/2021