

Project Milestone 2

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Objective

To analyse the project problem and think through all possible scenarios so that no unusual scenario is missed out. To achieve this we need to list all the test cases and prepare a plan of feature development.

The tests required to be done in this project are as below:

- Add person when name of the person is null
- Add person with same name present in database
- Date of birth not in proper format or null
- Date of death not in proper format or null
- Filename is null
- Filename not in proper format
- Filename is empty string
- File is empty
- File contains only one char
- Date when picture taken not in proper format
- Date when picture taken is more than the current date
- Name of individuals seen in picture should be such that they were born before the date when picture was taken
- Date format is not proper like day of month is given but month and year are not given.
- Date format is not proper like month is given but year is not given.
- Date format is not proper like day of month and month is given but year is not given
- Add a person when no person added in family tree/database
- Add a person when one person added in family tree/databse
- Add a person when many people added in family tree/database
- Find degree of cousinship when only one person in database
- Find degree of cousinship when no person in database
- Find degree of cousinship when only many people in database
- Find degree of removal when only one person in database
- Find degree of removal when no person in database
- Find degree of removal when many people in database
- Find relation or ancestor when both person not present in database
- Find relation or ancestor when only one of the given person present in database
- Tag added when there are no tags added for a media file
- Tag added when there is only 1 tag for a media file
- Tag added when there are multiple tags for a media file

- No tag added for a media file
- Trying to add people appearing in media when the file is not added
- File added but people which appearing in media are not added
- Neither file not people added
- Partnering between 2 people where one persons data not added
- Partnering between 2 people where both of their data not added
- Dissolution between 2 people where one persons data not added
- Dissolution between 2 people where both of their data not added
- Establishing a relation of parent child between 2 people where one persons (either parent or child) data not added
- Establishing a relation of parent child between 2 people where both of their data not added
- Adding note for individual not present in database
- Adding reference for individual not present in database
- Finding a person for which data not added
- Finding a media file that is not added
- Finding relation between 2 people for which one persons data not added
- Finding relation between 2 people where data for both not added
- Listing descendants when the person has 0 descendant
- Listing descendants when the person has 1 descendant
- Listing descendants when the person has many descendants
- Listing ancestors when the person has 0 ancestor
- Listing ancestors when the person has 1 ancestor
- Listing ancestors when the person has many ancestors
- Listing notes and address for a person that is not added in database
- Listing notes and address for a person for whom none of the 2 exists
- Listing notes and address for a person for whom only notes exists
- Listing notes and address for a person for whom only address exists
- Finding media by tag for which endDate is null
- Finding media by tag for which startDate is null
- Finding media by location for which endDate is null
- Finding media by location for which startDate is null
- Finding media by tag for which tag does not exist
- Finding media by location for which location does not exist
- Finding media for person not added
- Finding media for person for which startDate is null
- Finding media for person for which endDate is null
- Finding media for person for whom media not added
- Finding media for person for whom 1 media added
- Defining set of media files for a person not added
- Defining set of media files for a person who does not have any children
- Defining set of media files for a person who has one child
- Defining set of media files for a person who has many children
- File name is of 1 char
- Person name is of 1 char

I will be following below plan:

1. Learn about database creation.
2. Find out how many tables to be created and which fields to be added in these tables.
3. Integrate the table with the code.
4. Add logic for addperson method, create nodes of tree based on the data entered and handle all exceptional cases by throwing exception
5. Create map and store different attributes as key to the map and the value to these keys when recordAttribute method is called.
6. Adding logic for recordReference, recordNote, recordChild, recordDissolution and recordPartnering
7. Making tree on the basis of recordChild and recordPartnering methods.
8. Add the media file to database and return fileIdentifier for the media using addMediaFile method.
9. Similar to the individuals attribute, create a map and store different attributes of file when recordMediaAttribute is called.
10. Connect people to the media they appear in
11. Add tag to the file when tagMedia method called
12. Once tree, map and database created for individual and files add logic for finding person from the tree
13. Add logic for finding media file for the defined fileIdentifier
14. Add logic for finding relation between 2 people
15. Find descendants, ancestors, notes and references of a person using tree and map created through database
16. Finding media by tag and location
17. Find an individual's media and biological family.