Black Box Tests

- 1. Adding person
- Person name is an empty string
- Person name is made up of 1 character
- Person name is made up of maximum allowed characters
- Person name is between 2 and maximum allowed characters
- Person name is made up of more than maximum allowed characters
- Person with the same name added for the second time
- 2. Recording person attributes
- Record when the person does not exist
- Date of birth format is incorrect
- Date of birth is a future date
- Gender is not in the correct format
- 1 character occupation name
- Maximum allowed characters occupation name
- Occupation name is an empty string
- Occupation name is between 1 and maximum allowed characters
- 3. Recording reference
- Reference for that individual does not exist
- 1 reference exists for that individual
- Many references exist for that individual
- Record when the person does not exist
- Reference is an empty string
- 1 character reference string
- Maximum allowed characters reference string
- 4. Recording note
- Note for that individual does not exist
- 1 note exists for that individual
- Many notes exist for that individual
- Record when the person does not exist
- Note is an empty string
- 1 character note string
- Maximum allowed characters note string
- 5. Recording child
- Parent does not exist
- Child does not exist

- Parent is partnered
- Parent is single
- After dissolution
- Child already linked to different a parent(parents)
- Child already linked to the same parent
- Child already linked to the partner
- Child is partnered
- Child is partnered and added to a parent linked(ancestor) to the partner
- 6. Recording partnering
- Partner 1 does not exist
- Partner 2 does not exist
- Partner 1 already has a partner
- Partner 2 already has a partner
- Partner 1 partnering with partner 2 who had dissolution
- Partner 2 partnering with partner 1 who had dissolution
- Partnering between individuals having common ancestor
- Partnering between individuals having cousin relationship
- Partnering between individuals having ancestor/descendant relationship.
- 7. Recording dissolution
- Partner 1 does not exist
- Partner 2 does not exist
- Partner 1 and Partner 2 are not partnered
- Partner 1 and Partner 2 are partnered
- Dissolution twice between two individuals
- 8. Adding media file
- File location is an empty string
- File location is made up of 1 character
- File location is made up of maximum allowed characters
- File location is between 2 and maximum allowed characters
- File location is made up of more than maximum allowed characters
- Media with the same location added for the second time
- 9. Recording media attributes
- Record when the media does not exist
- Date format is incorrect
- Date is a future date
- 1 character city name
- Maximum allowed characters city name

- City name is an empty string
- City name is between 1 and maximum allowed characters

10. Recording people linked to a media

- Media does not exist
- No people passed
- One person passed
- Many people passed
- Out of many people, one person passed does not exist

11. Tagging media

- Tag does not exist
- Tag already exists
- Media does not exist
- Tag exceeding maximum allowed character limit
- Tag is already linked with a different media
- Tag is not linked with any other medias
- Tag is an empty string
- 1 character tag
- Many characters tag

12. Finding person

- Person does not exist
- Person exists

13. Finding media file

- Media does not exist
- Media exists

14. Finding an individual's name

- Person exists
- Person does not exist

15. Finding media file

- Media exists
- Media does not exist

16. Finding relation

- Person 1 does not exist
- Person 2 does not exist
- Both person 1 and person 2 exist
- Person 1 and Person 2 are partners

- Person 1 and Person 2 are related
- Person 1 and Person 2 are not related

17. Finding descendants

- Generations is 0
- Generations is a negative value
- Generations is more than the actual available generations
- Generations is 1
- Person does not exist
- Person exists
- Person has a single parent
- Person has both the parents
- After dissolution between parents
- After dissolution between parent and then one of the parents partnering with a different person

18. Finding ancestors

- Generations is 0
- Generations is a negative value
- Generations is more than the actual available generations
- Generations is 1
- Person does not exist
- Person exists
- Person has a single parent
- Person has both the parents
- After dissolution between parents
- After dissolution between parent and then one of the parents partnering with a different person

19. Finding notes and references

- Person does not exist
- Person exists
- Person has no notes associated
- Person has a single note associated
- Person has many notes associated
- Person has no references associated
- Person has a single reference associated
- Person has many references associated

20. Finding media by tag

- Tag exists
- Tag does not exist
- Tag is an empty string
- Start date is invalid

- End date is invalid
- Valid dates
- Start date is an empty string
- End date is an empty string
- Tag not associated with any media
- Tag associated with many medias

21. Find media by location

- Location exists
- Location does not exist
- Location not associated with any media
- Location associated with many medias
- Location is an empty string
- Start date is invalid
- End date is invalid
- Valid dates
- Start date is an empty string
- End date is an empty string

22. Finding individuals media

- Start date is invalid
- End date is invalid
- Valid dates
- Start date is an empty string
- End date is an empty string
- One of the persons passed does not exist
- One person passed
- Many persons passed
- Not a single person passed

23. Finding biological media

- Person does not exist
- Person is partnered
- Person is partnered after dissolution
- Person has a child
- Person has many children
- Person has no children
- Children have no media associated
- Children have media associated

Feature Development Plan

1. Create conceptual, logical and physical models for storing the family tree information and media entities.

Tasks	Entities	Tools	Planned date of completion
Design conceptual/logical model		Draw.io	12/11/2021
Design physical model: Define tables and column constraints	person, person_attribute, note, reference, partner, parent_child, media, media_attribute, people_media, tag		14/11/2021
Design physical model: Develop ERD, Normalize using iterative approach, Forward engineer the model		MySQL Workbench	17/11/2021
Integrate Genealogy database with the java code	NA	Java, Eclipse, MySQL connector	19/11/2021

2. Work on the java classes.

	Tasks	Planned date of completion
1.	Create interfaces called FamilyTree, MediaManagement, and Reporting.	
2.		
3.	Implement FileIdentifier class.	
4. Develop SQL queries for adding media, recording media		
	attributes, and tagging media.	21/11/2021
5.	Implement methods for storing media information in the	21/11/2021
	database:	
	 addMediaFile 	
	 recordMediaAttributes 	
	 tagMedia 	
1.	Implement PersonIdentity class.	
2.	Develop SQL queries for adding person, recording person	
	attribute, recording reference and recording note.	
3.	Implement methods for storing an individual's information in the	22/11/2021
	database:	23/11/2021
	 addPerson 	
	 recordAttributes 	
	 recordReference 	

	ecordNote	
4. Impleme	nt the peopleInMedia method.	
	nt data structure for storing family tree hierarchy	
· ·	SQL queries for recording child, recording partner, and	
	g dissolution.	
· ·	nts methods for defining relationships in the database	
	e memory:	
	recordChild	28/11/2021
	ecordPartnering	
	recordDissolution	
	nt methods to retrieve information from the database	
to build	a family tree hierarchy.	
1. Impleme	nt methods to find the most recent ancestor in the	
family tr		
	SQL queries for finding a person, finding a media file,	
_	ame, and finding a media file.	
	nt reporting functions:	
	indPerson	
	indMediaFile	02/12/2021
	indName	
	indMediaFile	
	indMediaByTag	
	indMediaByLocation	
•	notes And References	
Implement reporting functions		
• 1	indRelation	
•	descendents	09/12/2021
• ;	ancestors	09/12/2021
• 1	indIndividualsMedia	
•	indBiologicalFamilyMedia	