

CSCI 3901 Software Development Concepts (SDC)

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Milestone 4 : Implementation report in relation to earlier plan; git submission showing some progress on implementation

Project progress:

In 1st milestone (on November 5th), analyzed the problem and prioritized based on the importance and dependency of the class.

In 2nd milestone (on November 12th), created initial black box test cases based on methods provided in the problem statement. Apart from that also started to develop the algorithm for findRelation method to find common ancestor for two members.

In 3rd milestone (on November 17th), created database design for the solution, try to optimize the algorithm by storing and retrieving persistent data into database.

In 4th milestone (on November 30th), worked on connecting the database with java using ODBC drivers. Moreover, implemented the addPerson method, addRelation and findName method to the solution.

Changes in solution

Solution needs new class called genealogy which should include all methods to work on the family tree. And BiologicalRelation class should include two more methods getCousinship and getRemoval.

New Feature Plan

Task	Date
Priority is to develop methods that implement the main logic which includes following methods: <ul style="list-style-type: none">• addPerson• recordChild• recordPartnering• recordDissolution• findPerson• findNamefindRelation• descendants• ancestors• getCousinship• getRemoval	December 5 th
Then complete the rest of the methods which are methods for managing media archive, and other reporting functions.	December 9 th
Finalizing the code and putting all the validation for user and testing solution, refactoring the code to provide modularity	December 14 th

Project should include all the functions managing the tree and media archive, but it got delayed due to requirement for database design and development of efficient algorithm.

Project needed new feature plan as design and structure of the code required new dependent class called genealogy and few methods like getCousinship and getRemoval.