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Final Project
(Documentation)

Implementation Done:

- o `MobileDevice(String configurationFile, Government contactTracer)–`
- o Constructor to break out configuration file and get the relevant data
- o Store Network address of mobile device
- o Store device name of mobile device
- o Store Government class object as contactTracer in mobile device
- `recordContact(String individual, int date, int duration)–`
  - o Method to store contacted devices and pass to syncronizeData to store those contacts into government database when limit exceeded.
  - o Individual- hashCode of individual who get in contact (Unique so can not track back to individual)
  - o Date- the date on which individual get in contact (Number of days from 1st January 2020)
  - o Duration- time in number of minutes individual get in contact
- `positiveTest(String testHash)–`
  - o method to store mobile device user's test results hashCode
  - o testHash- test's hashCode to uniquely identify in database of lab report
- `synchronizeData()–`
  - o synchronize data stored inside the Device contact data structure(Map).
  - o Method will generate hashCode for the combination of network address and deviceName and pass this to the Government class's method mobileContact as initiator.
  - o Method will also generate xml of the different test results of mobile device user has provided and contacts that mobileDevice has made. Combination of both those xml into a string format is passed to Government class's mobileContact method as contactInfo.
  - o From all the provided data government class's method will provide the result as true if any contacted person is tested positive in last 14 days and returns false otherwise.
  - o Using this Boolean value user can get notified if they had any contact with individuals who tested positive.

Implementation Remains:

- Database Schema development.
- Government Class methods based on database to store data.
- Finalized Test Cases
- Final External Documentation

Plan of Feature Development :

- Implementation Plan(Updated):-
    - o Create Database Schema for all required tables(3rd Dec)
    - o Establish connections with the database using Class Government and develop some functionalities of Government class to store data into database as needed(6th Dec)
    - o Develop findGeathering method (8th Dec)
    - o Code refactoring if needed (10th Dec)

- Testing & Documentation:-
    - o Test Case Development(12th Dec)
    - o Proper Internal & External Documentation (13th Dec)

- Release of code (14th Dec)