SYSC 3303 Group Project
Iteration 4

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Group member name	**Contribution**
Tristan Demers	Working on UI for Iteration 5
Toman Aleksiev	Resolved remaining integration issues with the algorithm, take elevator out of service - algorithm side
Kenji Isak Laguan	Set up test automation, resolved/refactored code issues with tests using threads, wrote unit tests
Steven Johnson	Wrote unit tests
Irina Ionescu	Implemented fault handling, helped to resolve remaining integration issues with the algorithm, timing diagram, fault handling sequence diagram, updated state machine diagram

1. Files included:
   Code: ElevatorSimulator/ (see README)
   Diagrams:

a. FaultHandlingSequenceIteration4.pdf - sequence diagram for fault handling
b. StateMachineUpdatedIter4.pdf - updated state machine diagram
c. TimingAveragesFaults.xlsx - time stamps and calculated average over several runs of the program, used for the timing diagram
d. UMLClassDetailed.png - detailed class diagram
e. UMLClassDetailedWithDependencies.png - detailed class diagram with dependencies
f. UMLClassHighLevel.png - a high level view of the classes

Note: Full set up instructions and testing instructions are located in the “README.txt” file

Setup instructions - general
- Open the project in Intellij and download any necessary libraries, sdk, etc. when prompted by the IDE
    - In IntelliJ, open ElevatorSimulator as a project
    - select the Mailbox.java file and run by clicking the green arrow
    - Output can be seen in the console
    - select the Scheduler.java file and run by clicking the green arrow
    - Output can be seen in the console
    - select the Elevator.java file and run by clicking the green arrow
    - Output can be seen in the console
    - select the Floor.java file and run by clicking the green arrow
    - Output can be seen in the console

IMPORTANT: Order of running is Mailbox, Scheduler, Elevator, Floor
For more details, see README

2. Testing instructions - for more details, see README.txt
   Manual testing:
    - run application as described in ## Build and run
    - observe output

   Automated test suite:
    - run ElevatorSimulator/src/test/java/TestSuite.java