

Deliverable #3

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Project: Glucosio

TeamCorrect

The GitHub repo for TeamCorrect CSCI 362 Project

Team Members

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Project Description

This repository contains test materials for the project Glucosio. We have built a test script, `runAllTests.sh`, that automates the testing of the Glucosio system.

Experiences

Deliverable 3's production was probably the most tricky as we were required to navigate between a shell script and java files, and ensure the syntax between them worked seamlessly. We were required to create a shell script in bash that would automate our java test files for our project, Glucosio. This required that our shell could navigate the correct directories and automatically run through our test cases. We also needed to ensure that our java test files could compile and execute from terminal as that is how the framework would run each file. These requirements required time and collaboration to complete and overall we are happy with the progress we made. The syntax of the

script may have required a bit of trial and error, but once it was working, it made the testing of our project Glucosio much more efficient.

Requirements

Ubuntu, Clone of Team Correct Repository, Java

Instructions to run tests

1. Open Terminal
2. git clone <https://github.com/csci-362-fall-2018-01/TeamCorrect>
3. cd TeamCorrect/TestAutomation/scripts (May need additional navigation, depending on where the repository was cloned to)
4. ./runAllTests.sh
5. Output will be stored in an html file which should open automatically in the default browser.

*If any of the above commands return permission denied, use 'sudo' in front of the command.

*If the ./runAllTests.sh returns command not found, use 'sudo chmod 755 runAllTests.sh', then './runAllTests.sh'

Testing Framework Architecture

/TestAutomation

 /project (Holds Glucosio repository)

 /glucosio-android-develop

 /scripts

```
runAllTests.sh
/testCases
    testCase1.txt
    testCase2.txt
/testCasesExecutables (Holds Glucosio test scripts)
/temp
/oracles
/docs
    README.md
/reports
    testResults.html
```

Test Cases

Test Number: 01

Requirement being tested: RS013 Set Reminders

Component being tested: Reminder.java

Method being tested: setID, setMetric, setActive

Test input(s) including command-line argument(s):

Id = 100

Id = 123456789

Metric = "0mL"

Metric = "9L"

Active = true;

Expected outcome(s):

Id returned = 100

Id returned = 123456789

Metric returned = 0mL

Metric returned = 9L

Is Active returned = true

Test Number: 02

Requirement being tested: RS001 Record user input - Glucose

Component being tested: Glucose Converter

Method being tested: glucoseToA1C

Test input(s) including command-line argument(s):

mgDI = 10

mgDI = 25

mgDI = 50.0

mgDI = 0.0

Expected outcome(s):

10.0 glucose level converted to 1.98

25.0 glucose level converted to 2.5

50.0 glucose level converted to 3.37

0.0 glucose level converted to 1.63

Test Number: 03

Requirement being tested: RS001 Record user input - Ketone

Component being tested: KetoneReading.java

Method being tested: setReading, setId

Test input(s) including command-line argument(s):

Reading = 2.0

Reading = 10.0

ID = 1234

ID = 146789

Expected outcome(s):

Id returned = 1234

Id returned = 146789

Reading returned = 2.0

Reading returned = 10.0

Test Number: 04

Requirement being tested: RS001 Record user input - Body Weight

Component being tested: WeightReading.java

Method being tested: setReading, setId

Test input(s) including command-line argument(s):

Reading = 100.0

Reading = 50.0

ID = 1234

ID = 146789

Expected outcome(s):

Id returned = 1234

Id returned = 146789

Reading returned = 100.0

Reading returned = 50.0

Test Number: 05

Requirement being tested: RS001 Record user input - Blood Pressure

Component being tested: PressureReading.java

Method being tested: setMinReading, setMinReading, setId

Test input(s) including command-line argument(s):

MaxReading = 180.0

MinReading = 110.0

ID = 1234

ID = 146789

Expected outcome(s):

Id returned = 1234

Id returned = 146789

Min Reading returned = 110.0

Max Reading returned = 180.0