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 History 1 contributor 126 lines (105 sloc) | 2.95 KB

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## Part 1

```
CPATH=.:lib/hamcrest-core-1.3.jar:lib/junit-4.13.2.jar
rm -rf student-submission
git clone $1 student-submission

cp TestListExamples.java student-submission/
cp -R lib student-submission
cd student-submission
if [[ -e TestListExamples.java ]]
then
    javac -cp $CPATH *.java 2> stderr.txt
else
    echo "File does not exist"
    exit 1
fi
[ -s stderr.txt ]
if ! [ $? -eq 0 ]
then
    java -cp $CPATH org.junit.runner.JUnitCore TestListExamples 1>
    stdout.txt
else
    echo "File does not compile"
    exit 1
fi
```

```

filtertest=$(grep -o -i "filtertest" TestListExamples.java | wc -l)

mergetest=$(grep -o -i "mergetest" TestListExamples.java | wc -l)

filterfailed=$(grep -o -i " filtertest" stdoutoutput.txt | wc -l)

mergefailed=$(grep -o -i " mergetest" stdoutoutput.txt | wc -l)

filterpassed=$(echo "$filtertest-$filterfailed" | bc)

mergepassed=$(echo "$mergetest-$mergefailed" | bc)

echo " $filterpassed out of $filtertest test for the filter() method
passed"

echo " $mergepassed out of $mergetest test for the merge() method passed"

```

## Part 2

The first screenshot shows the browser at `localhost:4000/grade?repo=https://github.com/ucsd-cse151-f22/list-methods-lab3`. The output is:

```

Cloning into 'student-submission'...
0 out of      1 test for the filter() method passed
0 out of      2 test for the merge() method passed

```

The second screenshot shows the browser at `localhost:4000/grade?repo=https://github.com/ucsd-cse151-f22/list-methods-compile-error`. The output is:

```

Cloning into 'student-submission'...
File does not compile

```

The third screenshot shows the browser at `localhost:4000/grade?repo=https://github.com/ucsd-cse151-f22/list-methods-corrected`. The output is:

```

Cloning into 'student-submission'...
1 out of      1 test for the filter() method passed
2 out of      2 test for the merge() method passed

```

## Part 3

I choose the second one as an example to describe what `grade.sh` does on that.

```
CPATH=.:lib/hamcrest-core-1.3.jar:lib/junit-4.13.2.jar
```

The CPATH stores `.:lib/hamcrest-core-1.3.jar:lib/junit-4.13.2.jar`

```
rm -rf student-submission
```

The `rm -rf` command removes the old `student-submission` directory.

```
git clone $1 student-submission
```

`git clone` takes url as an parametr to clone the student submissions and store it in `student-submission` directory

```
cp TestListExamples.java student-submission/
```

`cp` copies java file `TestListExample` to the `student-submission` directory

```
cp -R lib student-submission
```

`cp -R` copies `lib` directory to the `student-submission` directory

```
cd student-submission
```

`cd` changes the current directory to the `student-submission`

```
if [[ -e TestListExamples.java ]]
```

`-e` checks if the file exists The condition of this if statement is true here as the file exists.

```
javac -cp $CPATH *.java 2> stderr.txt
```

Then, `javac` would compile the file and redirect the error message to the `stderr.txt`.

```
else
    echo "File does not exist"
    exit 1
```

The else section does not run as the file exists so the if condition is true.

```
fi
```

fi exit the if statement.

```
[ -s stderr.txt ]
```

This line of code is used to check the size of stderr.txt.

```
if ! [ $? -eq 0 ]
```

The `$?` would be zero if stderr.txt is not empty and would be some other number otherwise. In this case, it equals to 0.

```
then
```

```
    java -cp $CPATH org.junit.runner.JUnitCore TestListExamples 1>  
    stdout.txt
```

This block of codes is skipped as the if condition is false.

```
else
```

```
    echo "File does not compile"  
    exit 1
```

It prints the message "File does not compile" as the file has error and exit.

```
fi
```

fi exit the if statement

The rest of the grdes.sh code does not run as the exit code 1 stops the program there.