CS551 – Advanced Software Engineering

Assignment# 8

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Task: Develop an Ionic application for Lab Task 6 and write unit test cases.

Steps involved:

1. An ionic app is started with name swetha and with template tabs.
2. Lab Task 6 Services are used in this application i.e., Calculate Area of Square, Calculate Area of Rectangle, Convert Pounds to Kgs.
3. The app is built and ionic serve command is used to test the app on the browser.
4. Test cases are written and Karma – CLI is used to execute them.

Screenshots:

Test Cases

```
C:\swetha>karma start karma.conf.js
17 03 2016 05:52:46.151:WARN [watcher]: Pattern "C:/swetha/www/lib/platform/platform.js" does not match any file.
17 03 2016 05:52:46.156:WARN [watcher]: Pattern "C:/swetha/js/*.js" does not match any file.
17 03 2016 05:52:46.183:WARN [karma]: No captured browser, open http://localhost:9876/
17 03 2016 05:52:46.193:INFO [karma]: Karma v0.13.22 server started at http://localhost:9876/
17 03 2016 05:52:46.200:INFO [launcher]: Starting browser Chrome
17 03 2016 05:52:47.514:INFO [Chrome 49.0.2623 (Windows 10 0.0.0)]: Connected on socket /#d_niAxIv5cMMN11wAAAA with id
6834372
Chrome 49.0.2623 (Windows 10 0.0.0) ChatsCtrl Checks Area of Rectangle FAILED
        Expected undefined to equal 100.
            at Object.<anonymous> (C:/swetha/www/unit-test/rectangle.js:13:40)
Chrome 49.0.2623 (Windows 10 0.0.0) DashCtrl Checks Area of Square FAILED
        Expected undefined to equal 100.
            at Object.<anonymous> (C:/swetha/www/unit-test/square.js:12:40)
Chrome 49.0.2623 (Windows 10 0.0.0): Executed 3 of 3 (2 FAILED) (0.057 secs / 0.033 secs)
```

Area of Square

Enter Side of a Square

Calculate

Area of Square

10

Calculate

Area of Square=100

Area of Rectagle

Enter Length

Enter Breadth

Calculate

Square   Rectangle   Kgs

Area of Rectagle

10

5

Calculate

Area of Rectangle=50

Square   Rectangle   Kgs

Pounds to KGS

Enter value in Pounds

Calculate

Pounds to KGS

200

Calculate

Kgs=91

Android Virtual Device:

Dashboard

Square Rectangle Kgs

Area of Square

Enter Side of a Square

Calculate

Area of Rectagle

Square | Rectangle | Kgs

Enter Length

Enter Breadth

Calculate

Pounds to KGS

Square

Rectangle

Kgs

Enter value in Pounds

Calculate