Mood Detect

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Team #2

Github Link: https://github.com/tungchihwei/EC601-Mood-Detect

Trello Link: https://trello.com/b/QZmTZ7UV/ec-601-final-project

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Demonstration

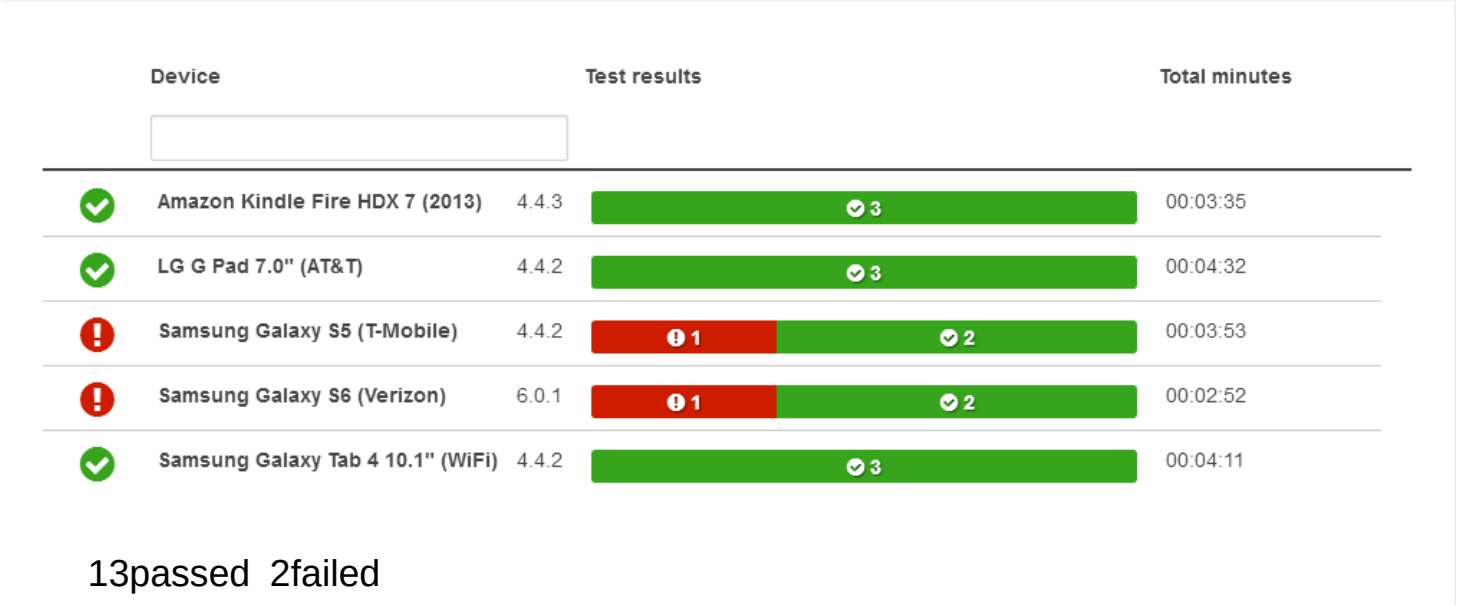

```
/media/sf_EC601/Machine learning> python test_knn.py
Happy:  ['Happy' 'Happy' 'Calm' 'Calm' 'Calm' 'Sad' 'Calm' 'Angry' 'Angry' 'Happy'
 'Angry' 'Calm' 'Calm' 'Calm' 'Calm' 'Angry' 'Happy' 'Calm' 'Calm' 'Calm'
 'Calm' 'Calm' 'Calm' 'Calm' 'Calm' 'Angry' 'Angry' 'Angry' 'Calm' 'Angry']
Sad:  ['Calm' 'Calm' 'Calm' 'Sad' 'Happy' 'Happy' 'Calm' 'Calm' 'Happy' 'Sad'
 'Calm' 'Angry' 'Angry' 'Calm' 'Calm' 'Angry' 'Calm' 'Angry' 'Calm' 'Angry'
 'Angry' 'Angry' 'Calm' 'Sad' 'Calm' 'Sad' 'Happy' 'Sad' 'Calm' 'Calm'
 'Angry' 'Calm' 'Angry' 'Sad' 'Calm' 'Sad' 'Sad' 'Happy' 'Angry' 'Sad'
 'Sad' 'Angry' 'Sad']
Calm:  ['Calm' 'Calm' 'Calm' 'Angry' 'Calm' 'Calm' 'Calm' 'Calm' 'Calm' 'Calm'
 'Angry' 'Calm' 'Calm' 'Calm' 'Calm' 'Angry' 'Calm' 'Calm' 'Angry' 'Calm'
 'Calm' 'Calm' 'Calm' 'Angry' 'Calm' 'Calm' 'Calm' 'Calm' 'Calm' 'Calm'
 'Calm' 'Calm' 'Calm' 'Calm' 'Calm' 'Calm' 'Calm' 'Calm' 'Calm' 'Sad'
 'Calm' 'Calm' 'Calm' 'Sad' 'Angry' 'Calm' 'Calm' 'Calm' 'Calm' 'Calm'
 'Sad' 'Calm' 'Calm' 'Calm' 'Calm' 'Calm' 'Calm' 'Calm' 'Calm' 'Calm'
 'Calm' 'Calm' 'Calm' 'Calm' 'Calm' 'Calm' 'Calm' 'Calm' 'Calm' 'Calm'
 'Calm' 'Calm' 'Calm' 'Calm' 'Calm' 'Calm' 'Calm' 'Calm' 'Angry' 'Calm'
 'Calm' 'Calm' 'Calm' 'Calm' 'Calm' 'Calm' 'Calm' 'Calm' 'Calm' 'Calm'
 'Calm' 'Calm' 'Calm' 'Calm' 'Calm' 'Calm' 'Calm' 'Calm' 'Calm' 'Calm'
 'Sad' 'Calm' 'Calm' 'Calm' 'Calm' 'Calm' 'Calm' 'Calm' 'Calm' 'Calm'
 'Angry' 'Calm' 'Calm' 'Calm' 'Calm' 'Sad' 'Calm' 'Calm' 'Calm' 'Calm']
Angry:  ['Angry' 'Angry' 'Angry' 'Angry' 'Angry' 'Angry' 'Calm' 'Angry' 'Angry'
 'Angry' 'Angry' 'Angry' 'Angry' 'Angry' 'Angry' 'Calm' 'Angry' 'Angry'
 'Angry' 'Angry' 'Calm' 'Sad' 'Angry' 'Sad' 'Calm' 'Angry' 'Angry' 'Angry'
 'Angry' 'Calm' 'Angry' 'Angry' 'Angry' 'Angry' 'Angry' 'Angry' 'Calm'
 'Calm' 'Calm' 'Sad' 'Calm' 'Calm' 'Sad' 'Angry' 'Angry']
```

Happy: error rate(19/30) accuracy rate36.7%
Sad : error rate(25/43) accuracy rate41.8%
Calm : error rate(13/130) accuracy rate90%
Angry : error rate(11/45) accuracy rate75.5%

Demonstration

demo

Unitest



13passed 2failed

Challenges

We haven't test the "login" function successfully since the tomcat server encouters some problem.

The accuracy rates of "happy" and "sad" are not as we expected.

Thank you