Biarri Rail Front End Candidate Exercise

The aim of this exercise is to simulate real working conditions to provide context for a code review session. The follow up review session will focus on your reasons for UI design and code implementation. As such it isn't necessary to build a complete application, however having some runnable code is recommended.

The suggested time to spend on this exercise is 2 hours.

Instructions

The exercise is to create a web page that mashes up [AlchemyAPI's Emotion Analysis](#) and Shakespeare's play *Henry IV*. Of particular interest is how the content of the play and the associated emotion is conveyed on the page. A possible implementation would be to step through the text of the play and display a graph mapping the emotion over time.

The emotion analysis API provides scoring of the emotional content of the provided text using a rating system of 5 types of emotions. A sample request/response is in Appendix A.

Along with this document you will have received a gzipped JSON data set of Shakespeare's play *Henry IV* and an API key for access to AlchemyAPI.

Deliverables

What you deliver is up to you, as are choices of technology, some suggestions are:

- Git repo.
- PDF of wireframes or mock ups.
- A deployed web page.

Please email your deliverables to your Biarri contact.

Appendix A - AlchemyAPI Sample Request/Response

```
http://gateway-a.watsonplatform.net/calls/text/TextGetEmotion?apikey=
API_KEY&outputMode=json&showSourceText=1&text=Let%20them%20set%20on%2
0at%20once%3B%20for%20I%20perceive
```

```
{
    "status": "OK",
    "usage": "By accessing AlchemyAPI ..",
    "totalTransactions": "0",
    "language": "english",
    "text": "Let them set on at once; for I perceive",
    "docEmotions": {
        "anger": "0.325268",
        "disgust": "0.368537",
        "fear": "0.142631",
        "joy": "0.402121",
        "sadness": "0.160611"
    }
}
```

Appendix B - Henry IV Data

The data is JSON array of lines from the play, below is a sample line from the play.

```
{
    "line_number": "1.1.21",
    "speech_number": 1,
    "play_name": "Henry IV",
    "text_entry": "We are impressed and engaged to fight,",
    "line_id": 24,
    "speaker": "KING HENRY IV"
}
```