

Traffic Monitoring Project

Group #13

Xuan Li

Chih-Ting Cho

Ting-Chieh Huang

Jonathan Hong

Jan Racoma

Kevin Cundey

Software Engineering 14:332:452

Individual Contributions

<https://sites.google.com/site/452trafficmonitoring/home>

<http://www.jracoma.com/trafficmonitor/>

Individual Contributions

| | Team Member Name | | | | | | Total |
|-------------------------|------------------|---------------|------------------|---------------|------------|--------------|---------|
| | Xuan Li | Chih-Ting Cho | Ting-Chieh Huang | Jonathan Hong | Jan Racoma | Kevin Cundey | |
| Coding (30) | 20.00% | 18.00% | 20.00% | 20.00% | 22.00% | 0.00% | 100.00% |
| Unit Testing (10) | 24.00% | 21.00% | 23.00% | 25.00% | 7.00% | 0.00% | 100.00% |
| Web Design (5) | 0.00% | 0.00% | 0.00% | 0.00% | 100.00% | 0.00% | 100.00% |
| Integration (10) | 20.00% | 20.00% | 15.00% | 20.00% | 25.00% | 0.00% | 100.00% |
| Debugging (5) | 25.00% | 10.00% | 20.00% | 20.00% | 25.00% | 0.00% | 100.00% |
| Documentation (10) | 20.00% | 20.00% | 20.00% | 20.00% | 20.00% | 0.00% | 100.00% |
| Data Collection (8) | 20.00% | 15.00% | 15.00% | 25.00% | 25.00% | 0.00% | 100.00% |
| Database (5) | 20.00% | 20.00% | 15.00% | 25.00% | 20.00% | 0.00% | 100.00% |
| Flyer (2) | 0.00% | 40.00% | 10.00% | 50.00% | 0.00% | 0.00% | 100.00% |
| Slides (3) | 10.00% | 25.00% | 35.00% | 30.00% | 0.00% | 0.00% | 100.00% |
| Project Management (12) | 20.00% | 10.00% | 25.00% | 15.00% | 30.00% | 0.00% | 100.00% |
| | 18.95 | 16.95 | 19 | 20.45 | 24.65 | 0 | 100 |

Unit Testing

There was no code written specifically for Unit Testing. The primary test of Get Directions was to verify whether the user entered starting and destination locations are within our coverage areas. The following code shows the location/address checking.

```
$("#getDirections").submit(function(event) {
    var address = document.getElementById('gstartingLocation').value;
    event.preventDefault();

    var check = 0;

    $.when($.when(getAddress(address, "#estartingLocation")).then(inCoverageArea).then(function(results) {
        if (results[0] == true) {
            address = document.getElementById('gdestinationLocation').value;

            $.when(getAddress(address, "#edestinationLocation")).then(inCoverageArea).then(function(results) {
                if (results[0] == true) {
                    calcRoute();
                } else {
                    $(results[1]).show();
                }
            });
        } else {
            $(results[1]).show();

            $.when(getAddress(address, "#edestinationLocation")).then(inCoverageArea).then(function(results1) {
                if (results1[0] == false) {
                    $(results1[1]).show();
                }
            });
        }
    }));
});
```

Integration Testing

For Demo 1, our main focus was the Get Directions portion of our program (Use Case 1). We have completed the majority of this use case and will just need to integrate the traffic data into our program. We have yet to implement the alerts and gas prices portion of our system (Use Case 2, 3, & 8); therefore, integration testing would not be applicable yet.