

CS5551 Lab Assignment – 2 Report

In this assignment, I have created a mobile web client application that helps the user in finding way between source point and destination point i.e. displays the user with route map and directions. I have used Google Maps web services to develop this application. I have created the application by making use of HTML, CSS, JavaScript and J-Query Mobile. As mentioned, I have considered opera mobile emulator to generate screens for your web app view. The Screenshots of the above mentioned application are presented below.

jsfiddle.net Link: <http://jsfiddle.net/mounicapoodla/jF9zU/>

Screenshots from Jsfiddle.net:

The screenshot displays a Jsfiddle.net workspace for a project named 'mounicapoodla'. The interface is divided into several panels:

- Frameworks & Extensions:** Shows jQuery 2.0.2 selected.
- HTML:** Contains the following code:

```
<tbody>
<tr>
</tr>
</tbody>

<a data-icon="search" data-role="button" href="#" id="submit" class="default-button-style">Get directions</a>
</div>
<div id="results" style="display: none;">
<div id="directions"></div>
</div>
</div>
</div>
```
- CSS:** Contains the following code:

```
<style>
html, body, #map-canvas {
height: 100%;
margin: 0px;
padding: 0px;
}
</style>
```
- JavaScript:** Contains the following code:

```
$(document).on('pageinit', '#map_page', function () {
initialize();
});

$(document).on('click', '#submit', function (e) {
e.preventDefault();
calculateRoute();
});

var directionsDisplay,
directionsService = new google.maps.DirectionsService(),
map;

function initialize() {
directionsDisplay = new google.maps.DirectionsRenderer();
var mapCenter = new google.maps.LatLng(39.1, -94.58);

var myOptions = {
zoom: 10,
mapTypeId: google.maps.MapTypeId.ROADMAP,
center: mapCenter
};


map = new google.maps.Map(document.getElementById("map_canvas"), myOptions);
directionsDisplay.setMap(map);
directionsDisplay.setPanel(document.getElementById("directions"));
}

function calculateRoute() {
var selectedNode = $('#mode').val(),
start = $('#from').val(),
end = $('#to').val();

if (start == '' || end == '') {
// cannot calculate route
$('#results').hide();
return;
}
else {
var request = {
origin: start,
```
- Preview:** Shows a mobile-optimized interface titled 'Navigation Services By Mounica'. It features a Google Map of Kansas City with a highlighted route. Below the map are input fields for 'From' and 'To', a 'Transportation method' dropdown menu (set to 'Driving'), and a 'Get directions' button. The footer credits 'Posted by: Mounica Reddy Poodla'.

Navigation Services By Mounica

Res



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From:

To:

Transportation method:

Driving

Driving

Driving


Walking

Bicycling

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Navigation Services By Mounica

Res



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From:

To:

Transportation method:

Driving

Driving

[Get directions](#)

Kansas City, MO, USA

510 mi / about 7 hours 40 mins

1. Head north on Oak St toward S 10th St	0.2 mi
2. Turn right onto S 10th St	0.4 mi
3. Merge onto I-70 W/US-71 N via the ramp to I-29 N	0.5 mi
4. Continue onto I-29 N/US-71 N	4.5 mi
5. Keep right to continue on I-29 N. Follow signs for Interstate 29 N to Des Moines	45.0 mi
6. Take exit 54 for US-26 east and Cameron/Hamilton	0.2 mi
7. Turn right onto US-26 E/Missouri Rte 110	1.0 mi
8. Continue onto I-26 E/US-26 E	10.4 mi
9. Continue onto I-26 N	1.0 mi
10. Take exit 282A to merge onto I-90 W/I-54 West and W Ryan Expressway/Wisconsin	2.2 mi
11. Take exit 514 for I-290 West and W Eisenhower Expressway/W Suburbs	0.5 mi
12. Keep right at the fork. Follow signs for Congress Parkway/Chicago Loop and merge onto I-290 E	0.0 mi
13. Continue onto W Congress Parkway	0.2 mi
14. Turn left onto S Dearborn St	0.05 mi
15. Take the 1st left onto W Van Buren St	1.00 mi
16. Take the 1st right onto S Federal St	0.02 mi

Chicago, IL, USA

Map data ©2014 Google

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From:

To:

Transportation method:

Kansas City, MO, USA

Result

510 mi - about 7 hours 40 mins

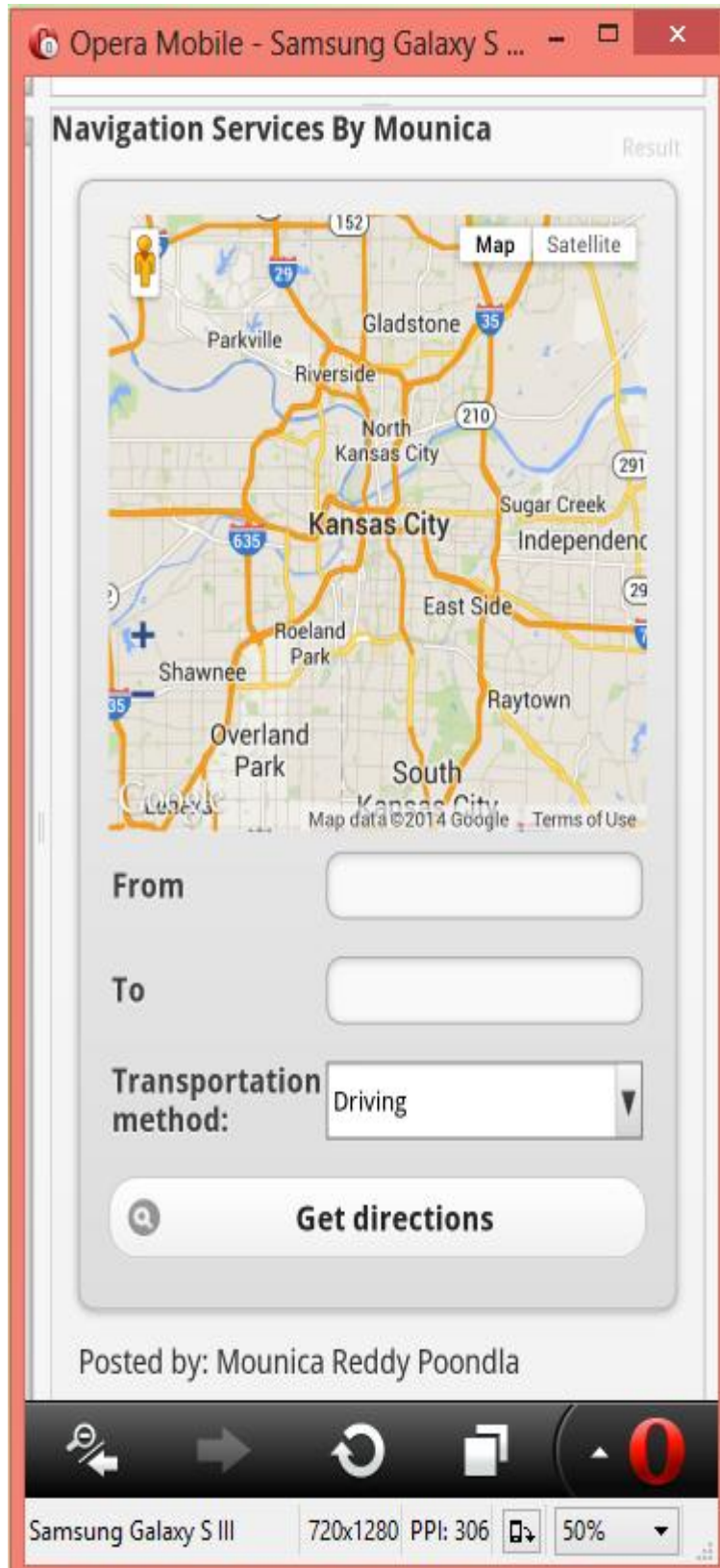
1. Head north on Oak St toward E 12th St 0.2 mi
- ➡ 2. Turn right onto E 10th St 0.4 mi
3. Merge onto I-70 W/US-71 N via the ramp to I-29 N 0.5 mi
4. Continue onto I-29 N/I-35 N/US-71 N 4.5 mi
- ➡ 5. Keep right to continue on I-35 N, follow signs for Interstate 35 N/Des Moines 45.8 mi
- ➡ 6. Take exit 54 for US-36 toward Cameron/Hamilton 0.2 mi
- ➡ 7. Turn right onto US-36 E/Missouri Rte 110 156 mi
8. Continue onto I-72 E/US-36 E 104 mi
Entering Illinois
9. Continue onto I-55 N 194 mi
- ➡ 10. Take exit 292A to merge onto I-90 W/I-94 W toward W Ryan Expy/Wisconsin 2.2 mi
- ➡ 11. Take exit 51H for I-290 W toward W Eisenhower Expy/W Suburbs 0.5 mi
- ➡ 12. Keep right at the fork, follow signs for Congress Parkway/Chicago Loop and merge onto I-290 E 0.6 mi
13. Continue onto W Congress Pkwy 0.3 mi
- ➡ 14. Turn left onto S Dearborn St 495 ft
15. Take the 1st left onto W Van Buren St 128 ft
16. Take the 1st right onto S Federal St 443 ft

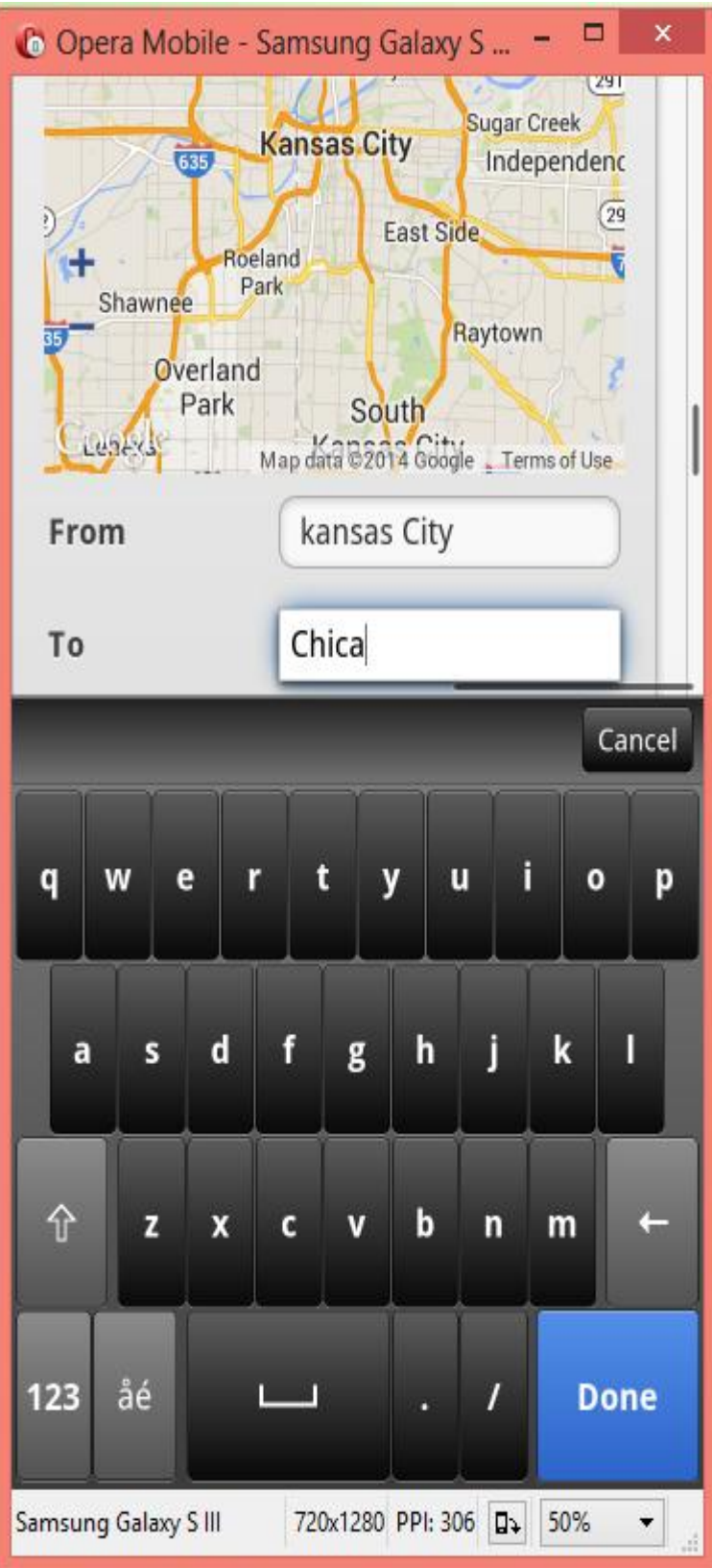
Chicago, IL, USA

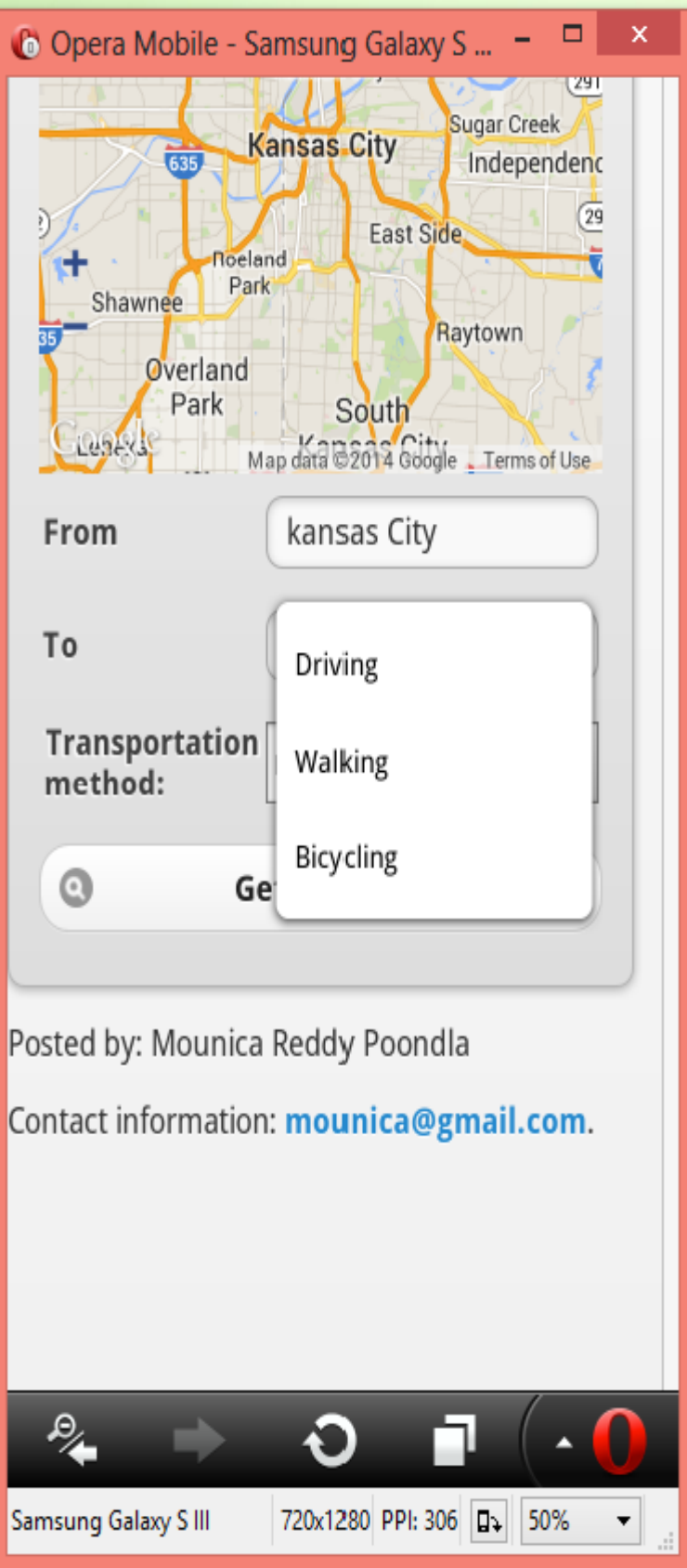
Map data ©2014 Google

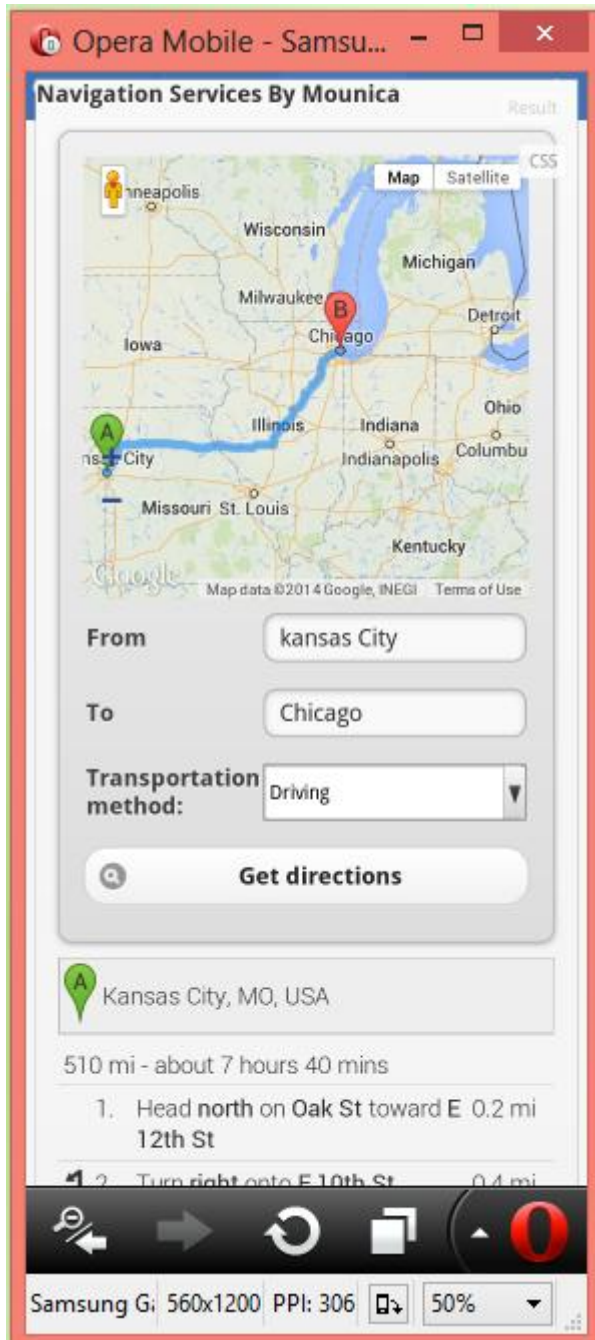
Posted by: Mounica Reddy Poondla

Screenshots generated by Opera Mobile Emulator:











Kansas City, MO, USA


510 mi - about 7 hours 40 mins

1. Head **north** on **Oak St** toward **E 12th St** 0.2 mi
- 1 2. Turn **right** onto **E 10th St** 0.4 mi
3. Merge onto **I-70 W/US-71 N** via the ramp to **I-29 N** 0.5 mi
4. Continue onto **I-29 N/I-35 N/US-71 N** 4.5 mi
- 1 5. Keep **right** to continue on **I-35 N**, follow signs for **Interstate 35 N/Des Moines** 45.8 mi
- 1 6. Take exit **54** for **US-36** toward **Cameron/Hamilton** 0.2 mi
- 1 7. Turn **right** onto **US-36 E/Missouri Rte 110** 156 mi
8. Continue onto **I-72 E/US-36 E** 104 mi
Entering Illinois
9. Continue onto **I-55 N** 194 mi
- 1 10. Take exit **292A** to merge onto **I-90 W/I-94 W** toward **W Ryan Expy/Wisconsin** 2.2 mi
- 1 11. Take exit **51H** for **I-290 W** toward **W Eisenhower Expy/W Suburbs** 0.5 mi
- 1 12. Keep **right** at the fork, follow signs for **Congress Parkway/Chicago Loop** and merge onto **I-290 E** 0.6 mi
13. Continue onto **W Congress Pkwy** 0.3 mi



US-71 N

- | | | |
|-----|---|---------|
| 5. | Keep right to continue on I-35 N, follow signs for Interstate 35 N/Des Moines | 45.8 mi |
| 6. | Take exit 54 for US-36 toward Cameron/Hamilton | 0.2 mi |
| 7. | Turn right onto US-36 E/ Missouri Rte 110 | 156 mi |
| 8. | Continue onto I-72 E/US-36 E
Entering Illinois | 104 mi |
| 9. | Continue onto I-55 N | 194 mi |
| 10. | Take exit 292A to merge onto I-90 W/I-94 W toward W Ryan Expy/Wisconsin | 2.2 mi |
| 11. | Take exit 51H for I-290 W toward W Eisenhower Expy/W Suburbs | 0.5 mi |
| 12. | Keep right at the fork, follow signs for Congress Parkway/ Chicago Loop and merge onto I-290 E | 0.6 mi |
| 13. | Continue onto W Congress Pkwy | 0.3 mi |
| 14. | Turn left onto S Dearborn St | 495 ft |
| 15. | Take the 1st left onto W Van Buren St | 128 ft |
| 16. | Take the 1st right onto S Federal St | 443 ft |

 Chicago, IL, USA

Map data ©2014 Google

Posted by: Mounica Reddy Poondla

