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DATA COMMUNICATIONS (COMP 4985)

ANDROID GPS - TESTING DOCUMENT

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Test Number	Test	Tool/Application	Expected Outcome	Pass/Fail
1	Website running with no server	Application	Website displays the data previously collected	Pass
2	Website running with no clients	Application	Website displays the empty table/map	Pass
3	Website running with multiple clients	Application	Website refreshes and displays the new data as received	Pass
4	Server receiving data from multiple clients	Application	Server adds the data appropriately to XML	Pass
5	Client sending data over Wi-Fi	Application	Data is received by the server	Pass
6	Client sending data over 3G	Application	Data is received by the server	Pass
7	Client sending to no server	Application	No data is received and app does not crash	Pass
8	Address reverse lookup accurate	Application	Rough address is correct or very close	Pass

FIGURE 1 - NO SERVER

Home Map

Active Users:

This website displays the location of mobile users.

User	IP	Time	Latitude	Longitude
f9d2258d534ac28e	192.168.1.8	2015/03/13 17:24:50	49.21520009	-122.95533078
f9d2258d534ac28e	192.168.1.8	2015/03/13 19:21:08	49.21520009	-122.95533078
f9d2258d534ac28e	192.168.1.8	2015/03/13 19:21:14	49.21500055	-122.95543606
f9d2258d534ac28e	192.168.1.8	2015/03/13 19:22:15	49.21500055	-122.95543606

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FIGURE 2- NO CLIENTS/DATA



Figure 3 - Multiple Clients Website

FIGURE 4 - SERVER RECEIVING FROM MULTIPLE CLIENTS

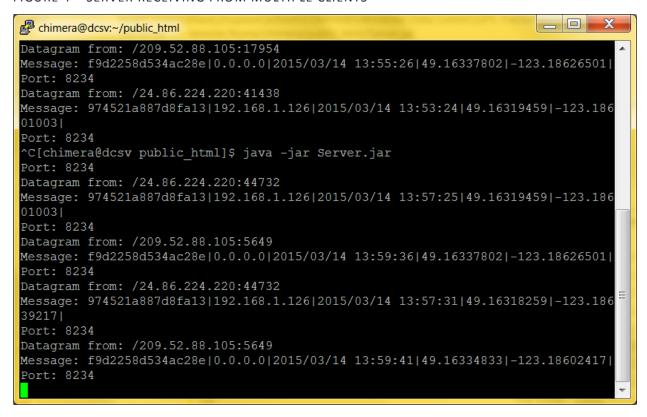


FIGURE 5 – SERVER RECEIVING FROM CLIENT OVER WIFI

```
Datagram from: /24.86.224.220:38623

Message: f9d2258d534ac28e|192.168.1.116|2015/03/14 14:03:58|49.1634175|-123.1863
3985|

Port: 8234
```

FIGURE 6 - SERVER RECEIVING FROM CLIENT OVER 3G

```
Datagram from: /209.52.88.105:5649

Message: f9d2258d534ac28e|0.0.0.0|2015/03/14 13:59:41|49.16334833|-123.18602417|

Port: 8234

Datagram from: /209.52.88.105:30981

Message: f9d2258d534ac28e|0.0.0.0|2015/03/14 14:03:35|49.16334833|-123.18602417|

Port: 8234

Datagram from: /209.52.88.105:30981

Message: f9d2258d534ac28e|0.0.0.0|2015/03/14 14:03:44|49.1634175|-123.18633985|

Port: 8234
```

FIGURE 7 – CLIENT SENDING TO NO SERVER

App does not crash but you are unable to detect the connection considering it is UDP.

FIGURE 8 - ADDRESS LOOKUP

