**Test cases Document for Backend testing**

System test cases of “Test cases.pdf” reviewed and tested again on PRAKTIKUM01.

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Performed by ricarda42

Version: 0.1 in development, on commit 5c6fd65

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| **Use Case** | **Function Being Tested** | **Initial System State** | **Input** | **Expected Output** | **Test execution documentation** |
| IC\_C1 | SF\_S3: Send list of stops | Stop table exists in database | ./stops | List of stops with stopID, stop name, line passing through the stops, location of the stop, bus schedule of the stop is displaying. Schedule contains line name, lineID, stopID, arriving time and timestamp. | Passed |
| IC\_C2 | SF\_S5: Send properties of bus |  |  | *Not implemented in this iteration. SF\_S2 can be used instead (see below)* |  |
|  | SF\_S6: Send GPS-Data | GPS data was sent to database | ./busses/{busId}/ | Current GPS Data coordinates with timestamp | Passed |
| IC\_C3 | SF\_S6: Send GPS-Data |  |  | See above |  |
| IC\_B1 | SF\_S1: Send list of lines |  | ./lines | List of Lines with properties lineID, name, routeID, timestamp and busses running on that specific line | Passed |
|  | SF\_S2: Send list of busses | Bus table exists in database | ./busses | List of all busses with their busID, number plate, color, picture and the line they serve | Passed |
|  | SF\_S4: Send list of routes | Route table exists in database | ./routes | List of all routes with routeID, route coordinates in geojson format and timestamp | Passed |
|  | SF\_S7: Store bus and line | Bus and line tables exist in database | ./updateBusStatus  Method: POST  Content type: application/json  Content:  {  "lineId":number,  "busId":number  } | Output of post 200,  Bus and line information stored | Passed;  tested with lineID = 3, busID = 2, with initially bus 2 on line 1. Output of post is 200, calling ./lines reveals that bus 2 is now on line 3. |
| IC\_B2 | SF\_S13: Store number of available seats |  |  | *For next iteration* |  |
| IC\_B3 | SF\_S4: Send list of routes |  |  | See above |  |
| IC\_B4 | SF\_S3: Send list of stops |  |  | See above |  |
| - | SF\_S8: Store GPS data | Bus table exists in database | ./realTimeData  Method: POST  Content type: application/json  Content:  {  "busId":number,  “position”: { “type”: “Point”, “coordinates”: [double, double]},  “timestamp”: timeStamp  } | Output of post 200, GPS Data of bus is stored, timestamp not changed | Passed;  With busID = 1, coordinates [15.0, -3.4] and timeStamp = 1098692636000  the output of POST is 200, calling ./busses/1 reveals that coordinates have been changed to [15.0, -3.4]. The timeStamp remains 1098692634000. |
| - | SF\_S9: Send latest timestamp | Line, bus, route and stops tables exist in database | ./update | Last timestamps for bus, route, line and stops | Passed |

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**Status:** complete

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**Review Status: C**omplete