

DriveStats

Functional Requirements Documentation



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https://github.com/AxelInd/COS301\_DriveStats/

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# Use Cases

All use cases described here-in are in direct compliance with the initial specification as released by the company,DVT (DVT, 2015). as expounded upon the first meeting with the client.

## Critical

### userRegistration

#### Description

This use case will be used by the android client and the web interface to allow new users to save their information in the database.

#### Use Case



#### Service Contract

The Service contract for the userRegistration service is shown in Figure x. This is a simple database element creation service.



#### Process Specification

The process specification contract for the userRegistration service is shown in Figure x. This is a simple database element creation specification.



### userLogin

#### Description

This use case will be used by the android client to initiate login, via the server, for use on the client-side Android application. This use case extends to direct login of a system admin for server manipulation.

Use case



#### Service Contract

This service contract outline the process used by the android client to initiate login, via the server, for use on the client-side Android application. This contract extends to description of the direct login of a system admin for server manipulation.



#### Process Specification

This process specification outline the process used by the Android client to initiate login, via the server, for use on the client-side Android application. This specification extends to process description of the direct login of a system admin for server manipulation.



### TripMonitorState

#### Description

This use case will be used by the user to activate and deactivate the monitoring of the phones sensors.

#### Use cases



#### Service Contract

The Service contract for the Trip Recording service is shown in Figure x. This is a dual functioned service providing sensor monitoring and feedback to the database.



#### Process specification

The process specification for the Trip Recording service is shown in Figure x. This is dual-functioned specification outlining sensor monitoring and feedback to the database.



## Important

### DisplayTripInformation

#### Description

This use case will be used by the user to receive a graphical display of the use information from their current trip.

#### Use case



#### Service Contract

This service contract describes the mechanism by which the user will receive a graphical display of the use information from their current trip.



#### Process Specification

This process specification describes the mechanism by which the user will receive a graphical display of the use information from their current trip.



## Nice-To-Have

### viewComparedResults

#### Description

This use case describes the mechanism by which the user will be able to compare their trip information against that of their “Friends”.

#### Use case



#### Service contract

This service contract describes the mechanism by which the user will compare their trip information against that of their “Friends”.



#### Process specification

This process specification describes the mechanism by which the user will be able to compare their trip information against that of their “Friends”.



May 2015

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| 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|  |  |  |  |  |  |  |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
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| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|  |  |  |  |  |  |  |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 |
|  | Develop core functionality of server and app |  |  |  |  |  |
| 31 |  |  |  |  |  |  |
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June 2015

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| --- | --- | --- | --- | --- | --- | --- |
| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|  | 1 | 2 | 3 | 4 | 5 | 6 |
|  | Obtain test data | Develop Score algorithm and interfaces |  |  |  |  |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 |
|  |  | Testing and Documentation updating |  |  |  |  |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
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| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
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# Bibliography

DVT, 2015. *DVT DriveStats,* s.l.: DVT.