

DriveStats

Functional Requirements Documentation



Department of Computer Science. University of Pretoria

**Axel Ind**: 12063178

**Nick Robinson**: 12026442

**Tim Kirker**: 11152402

**Zander Boshoff**: 12035671

**William Seloma**: 10155865

Contents

[Use Cases 3](#_Toc420671912)

[Critical 3](#_Toc420671913)

[userRegistration 3](#_Toc420671914)

[userLogin 5](#_Toc420671915)

[TripMonitorState 7](#_Toc420671916)

[Important 9](#_Toc420671917)

[DisplayTripInformation 9](#_Toc420671918)

[Nice-To-Have 10](#_Toc420671919)

[viewComparedResults 10](#_Toc420671920)

# 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”.



# Bibliography

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