DRIVESTATS

Functional Requirements Documentation

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Contents

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.
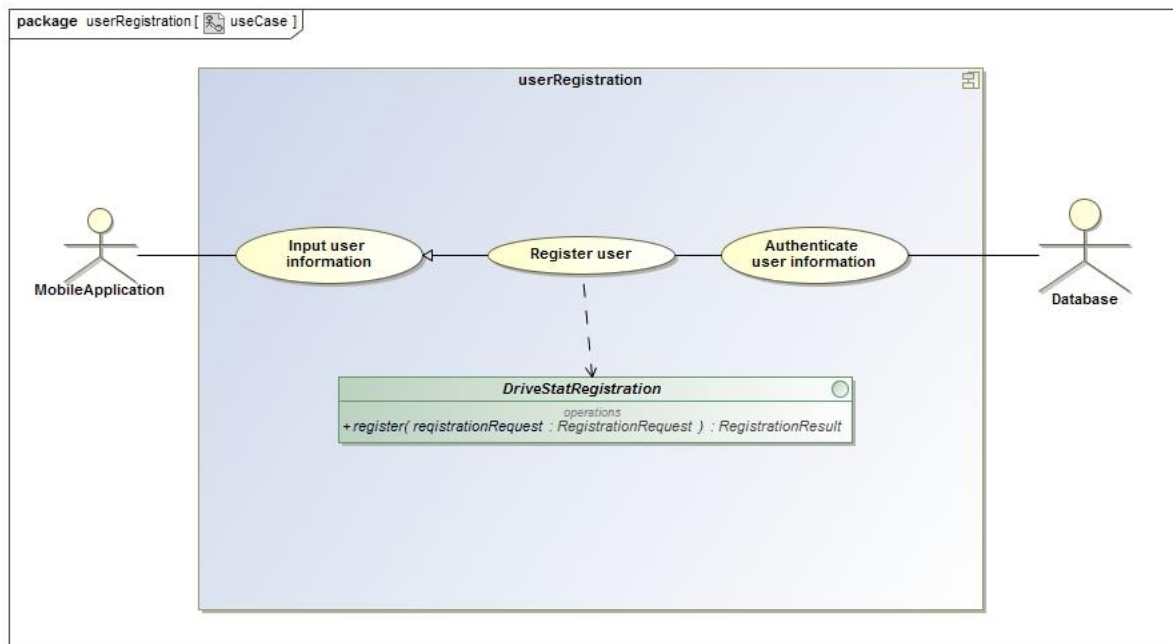
Critical

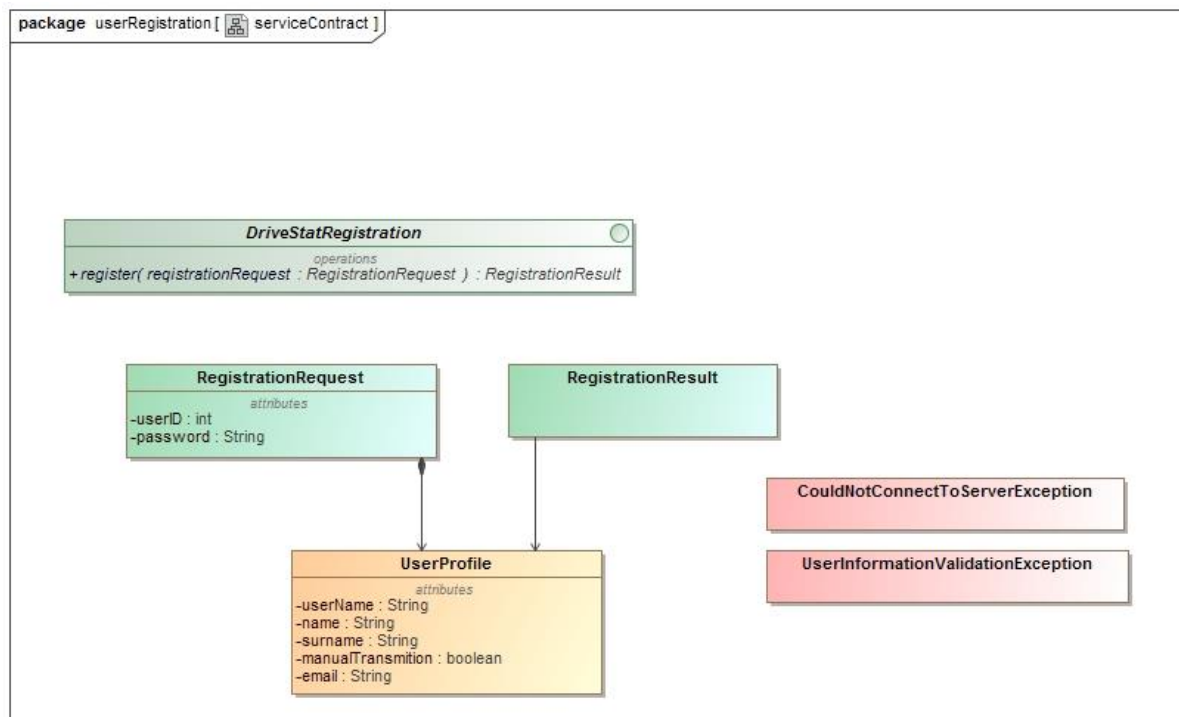### userRegistration

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.
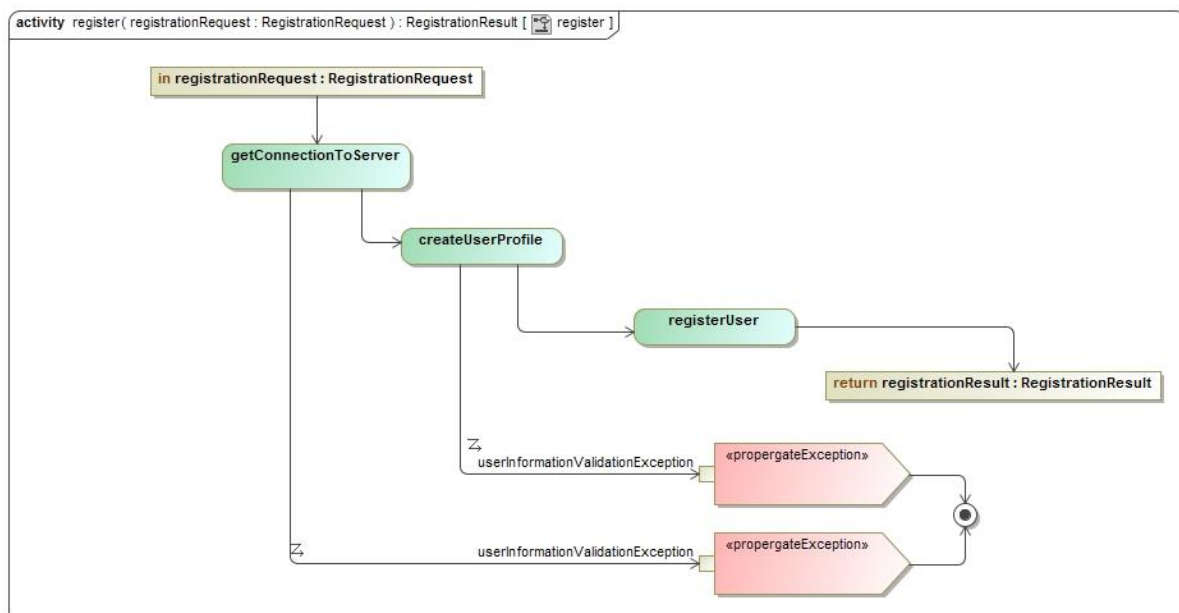
Use Case

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.
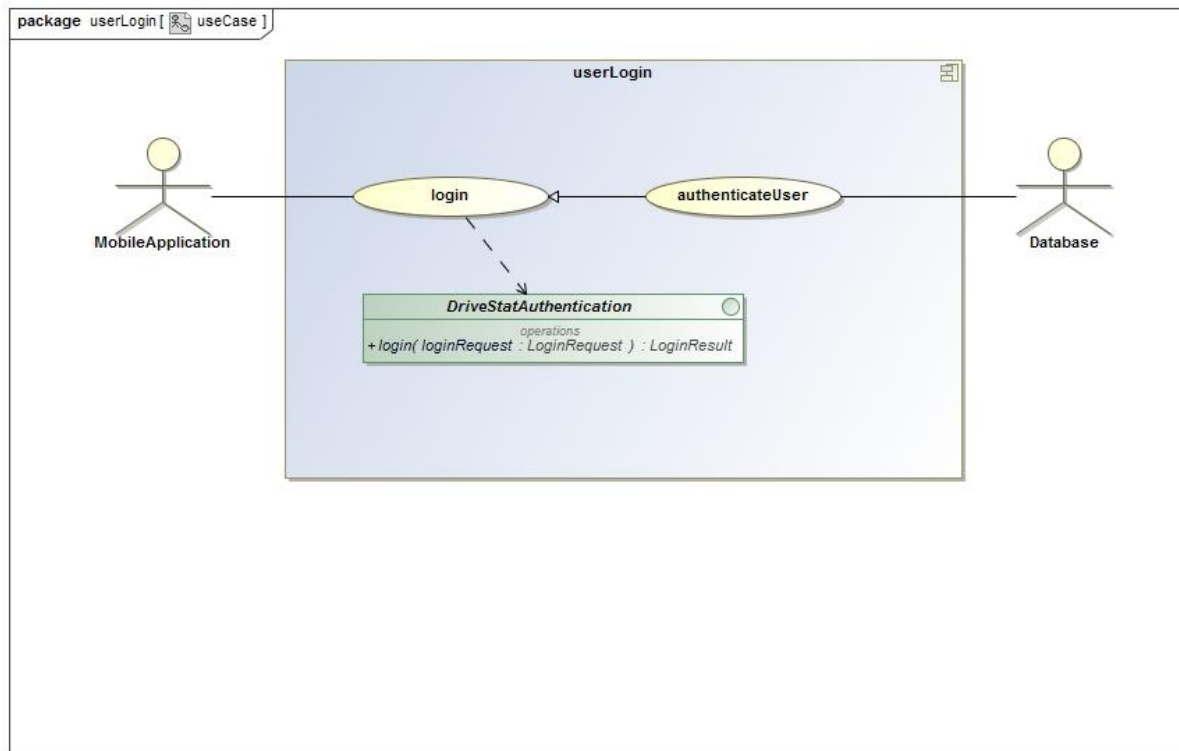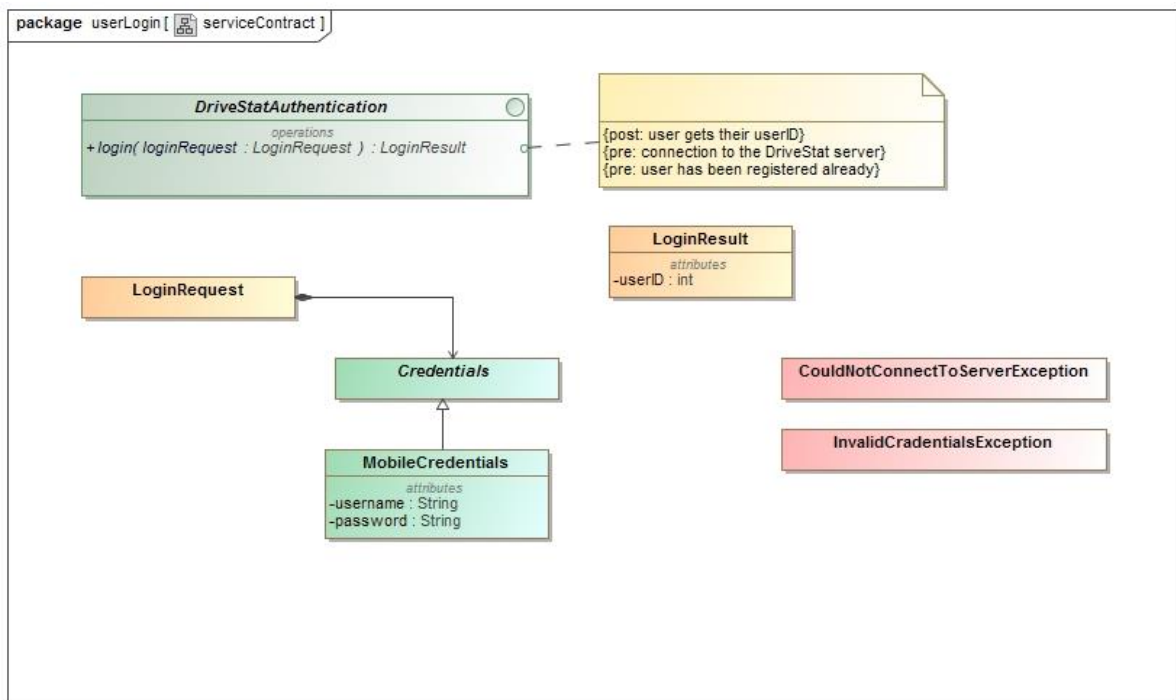
userLogin

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.
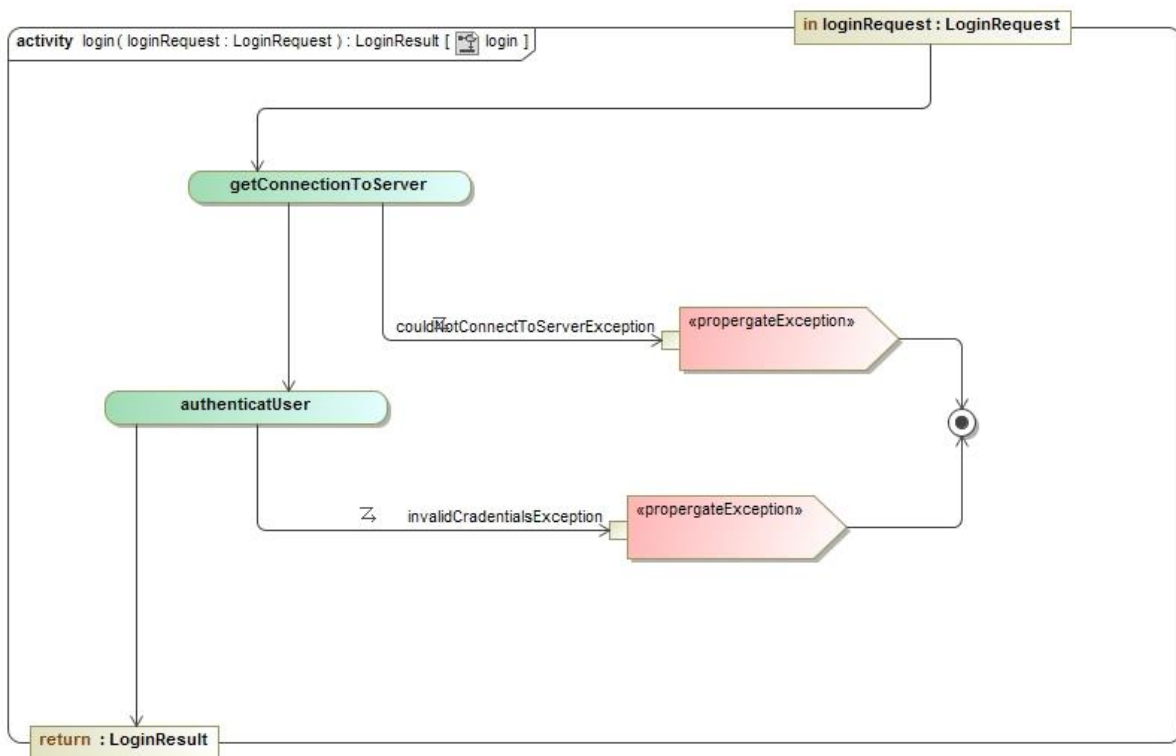
Use case

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.
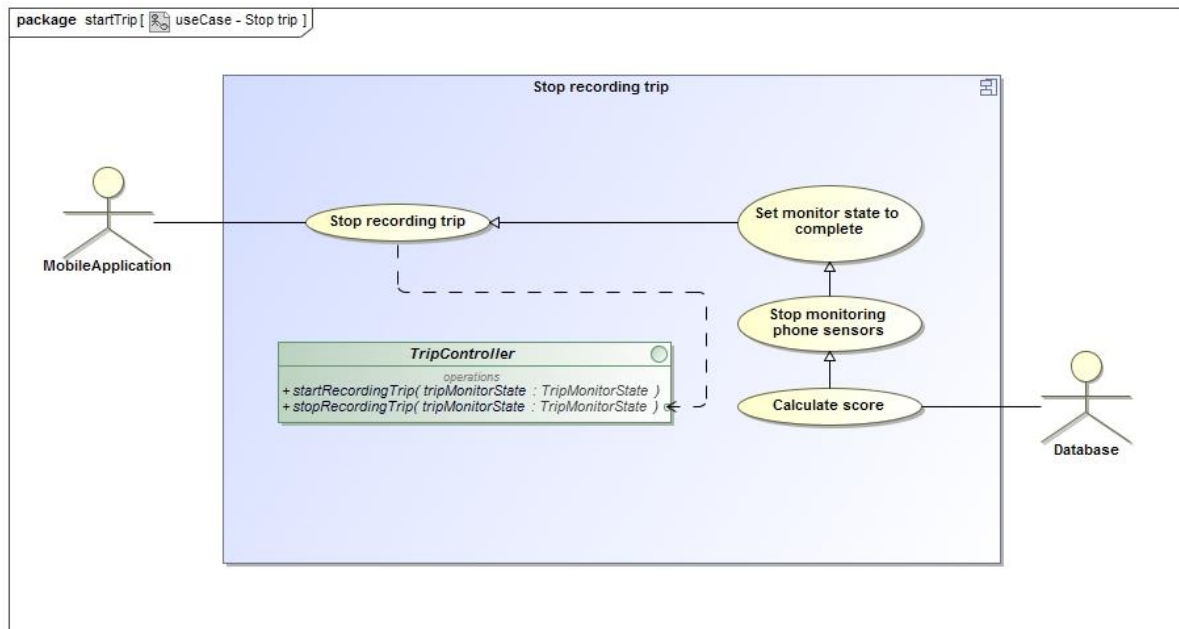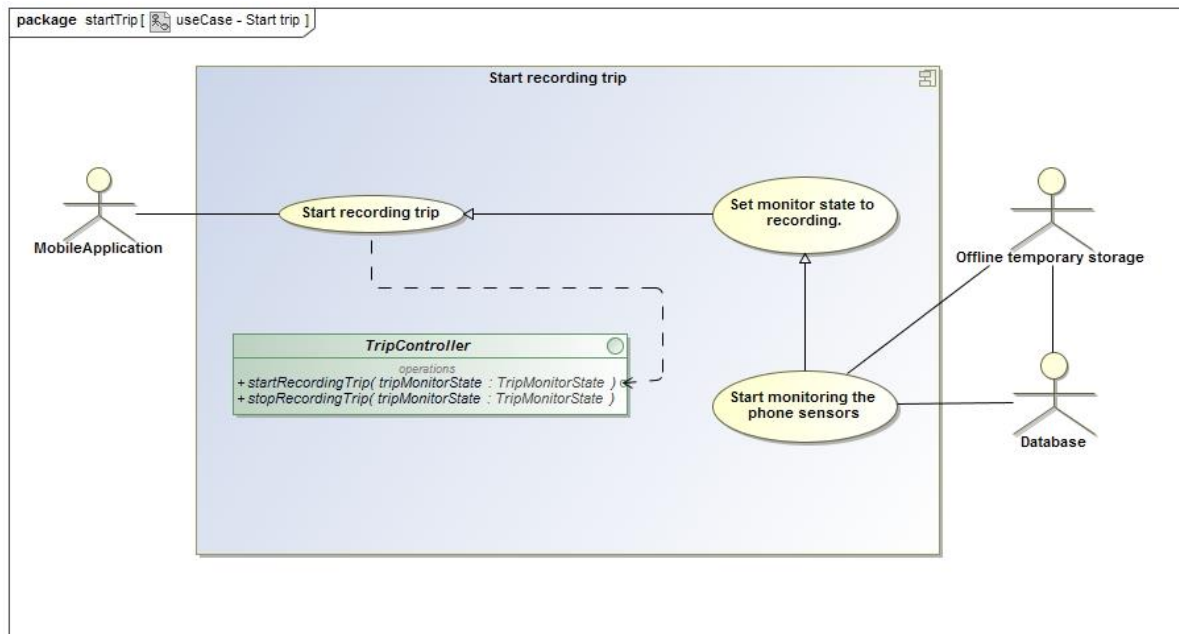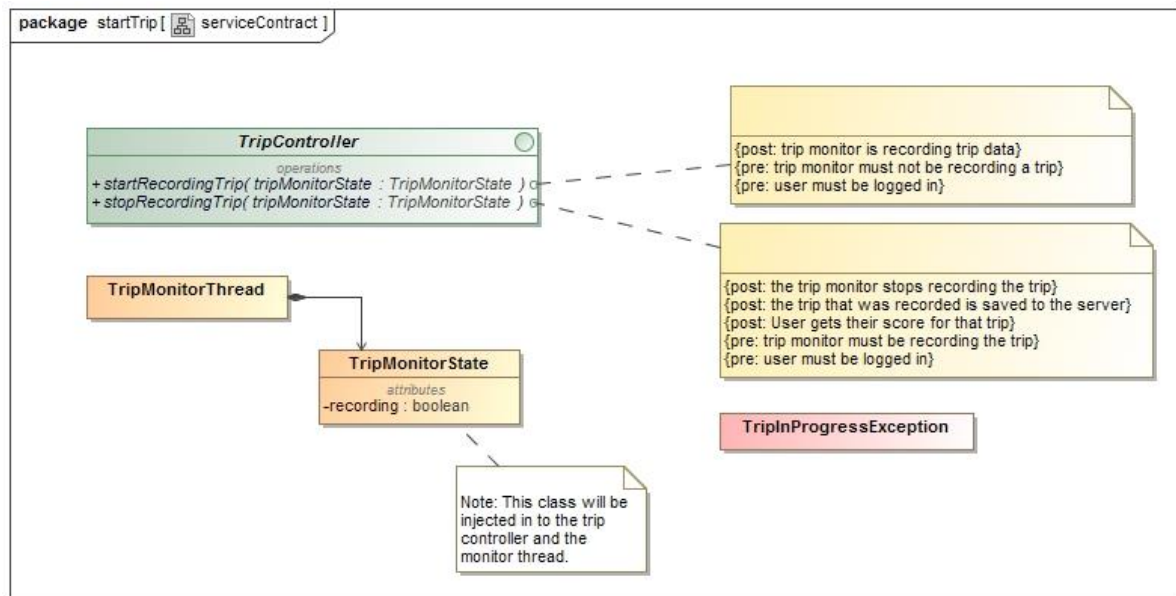
TripMonitorState

Description

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

Use cases
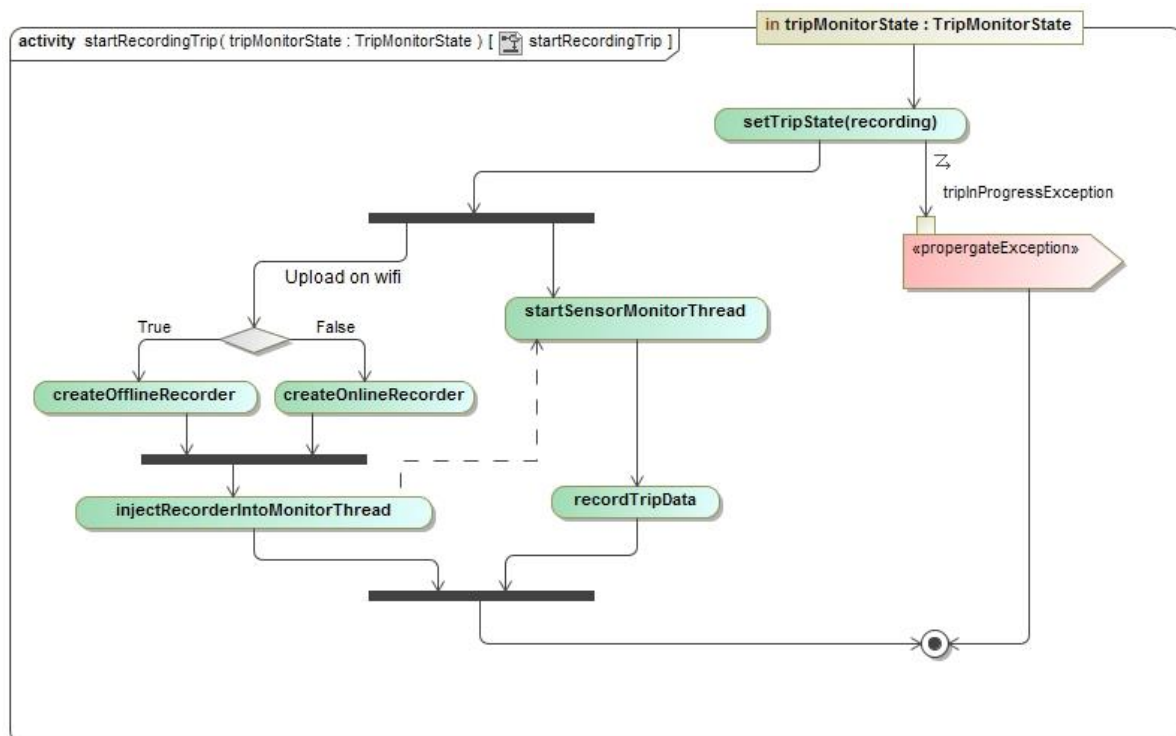
Service Contract

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.
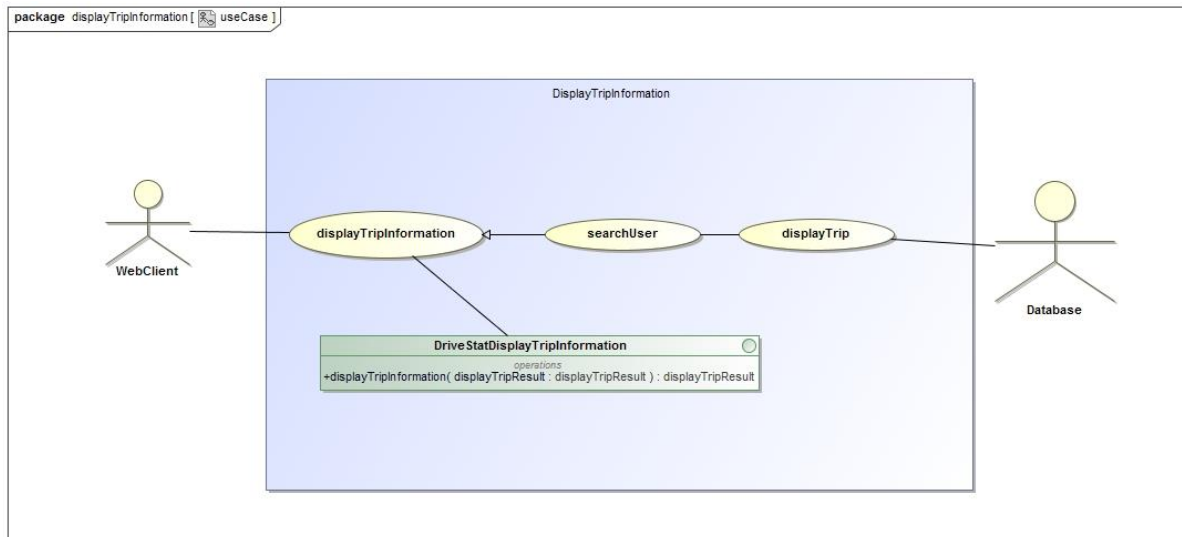
Important

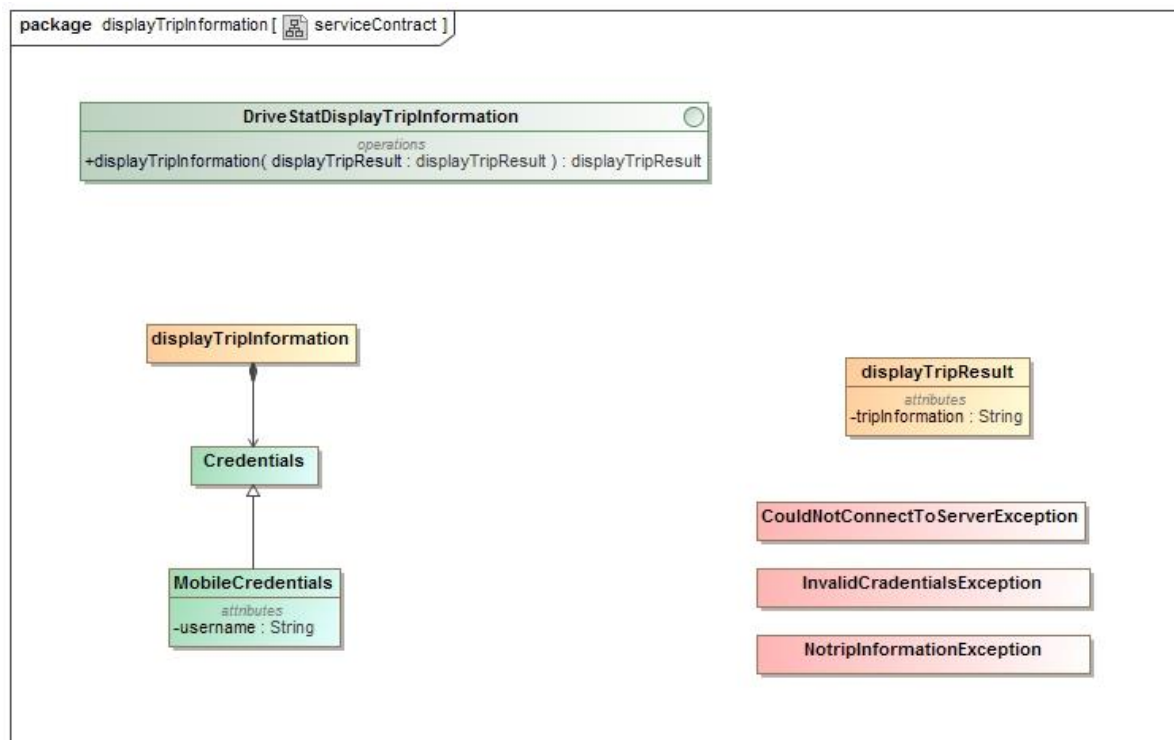## DisplayTripInformation

Description

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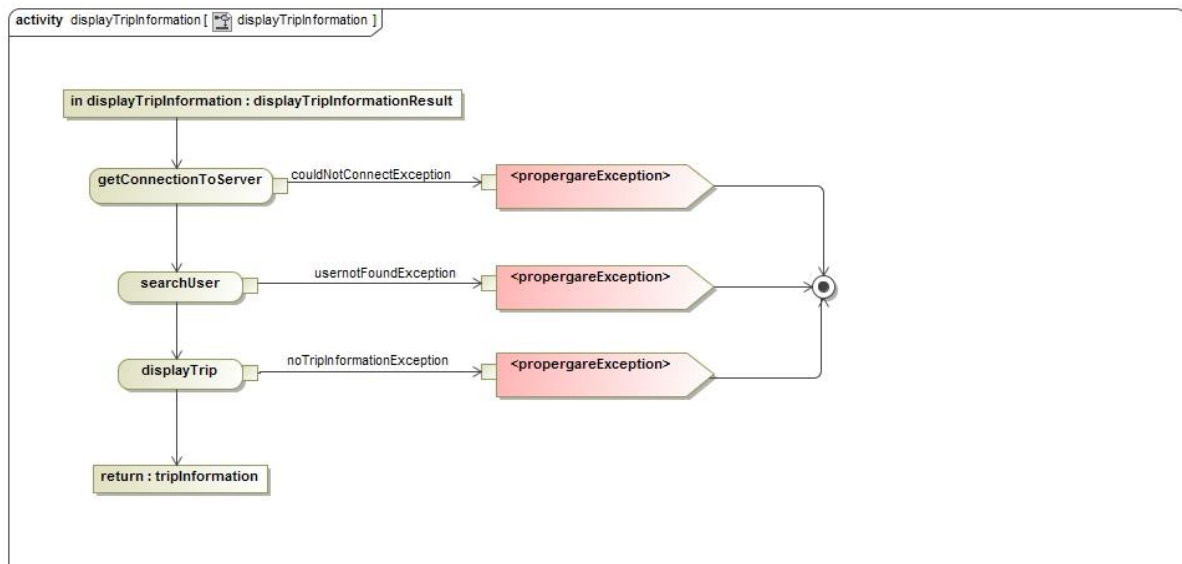
Use case

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.

activity displayTripInformation [🖼 displayTripInformation]

in displayTripInformation : displayTripInformationResult

getConnectionToServer — couldNotConnectException → <propergareException>

searchUser — usernotFoundException → <propergareException>

displayTrip — noTripInformationException → <propergareException>
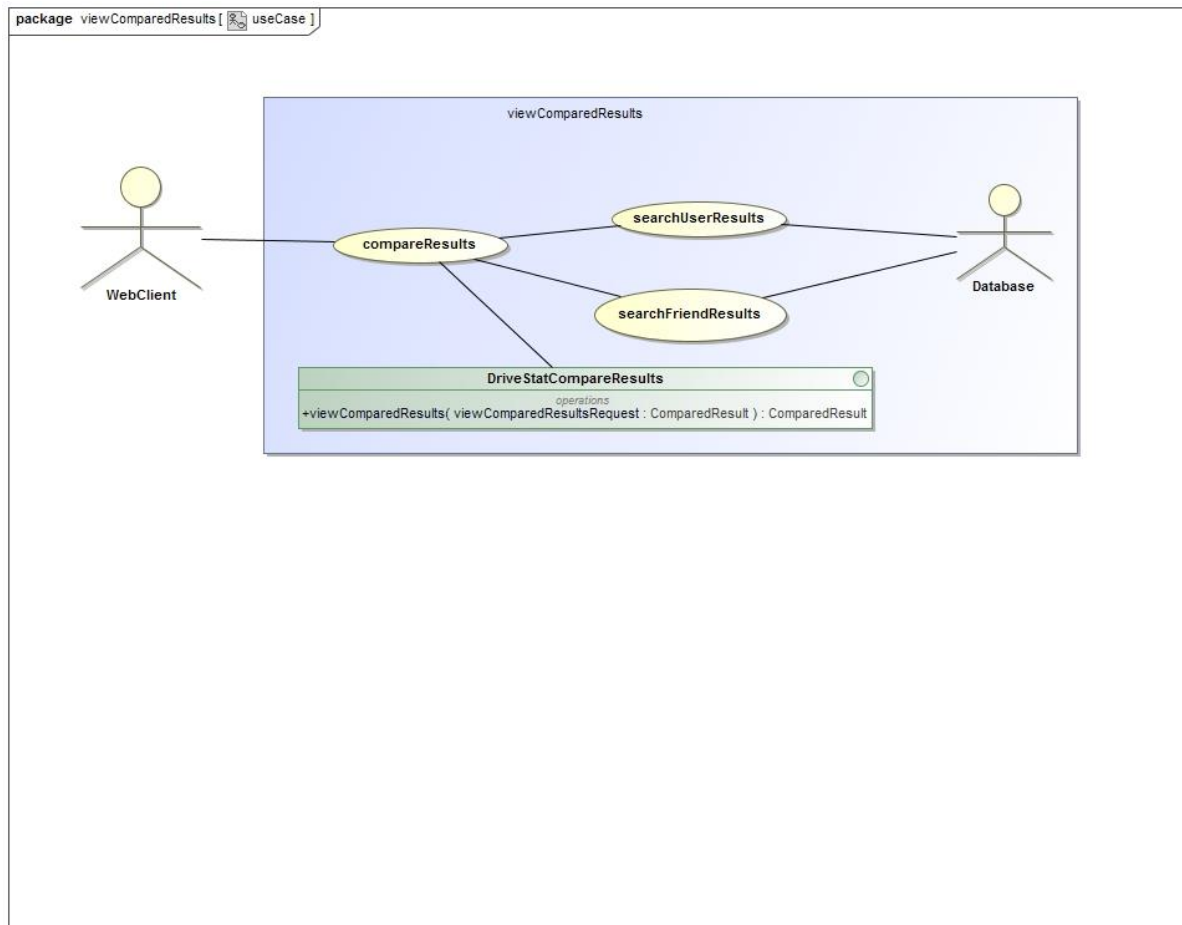
return : tripInformation

Nice-To-Have

viewComparedResults

Description

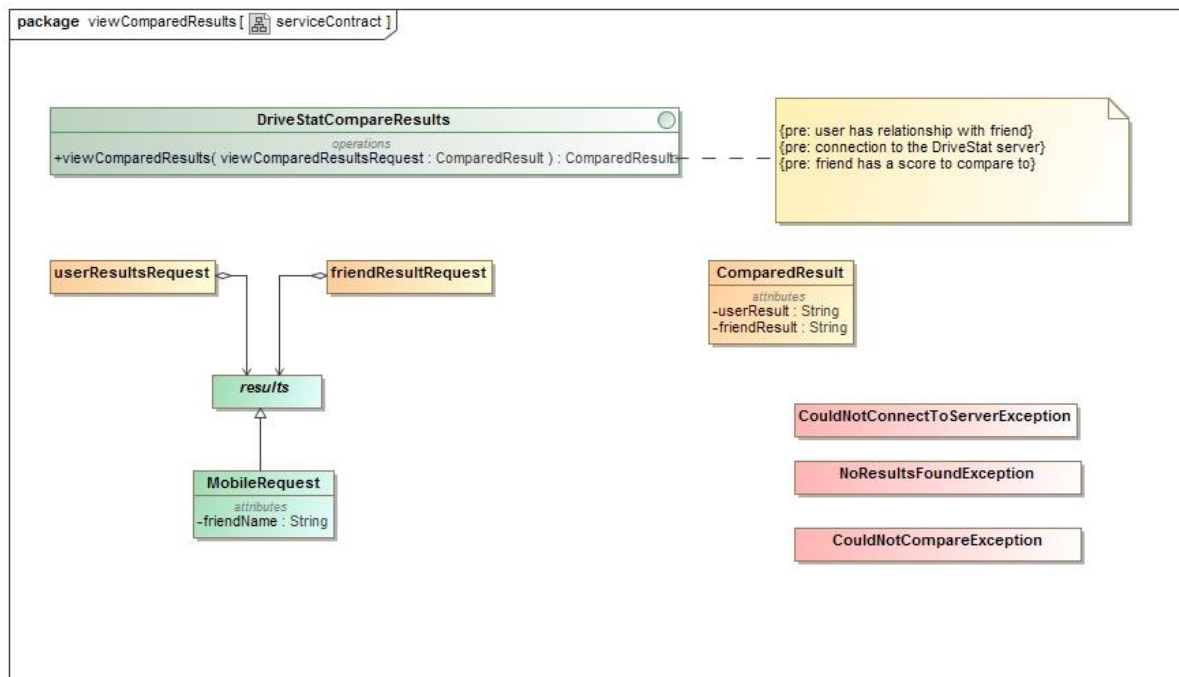This use case describes the mechanism by which the user will be able to compare their trip information against that of their "Friends".
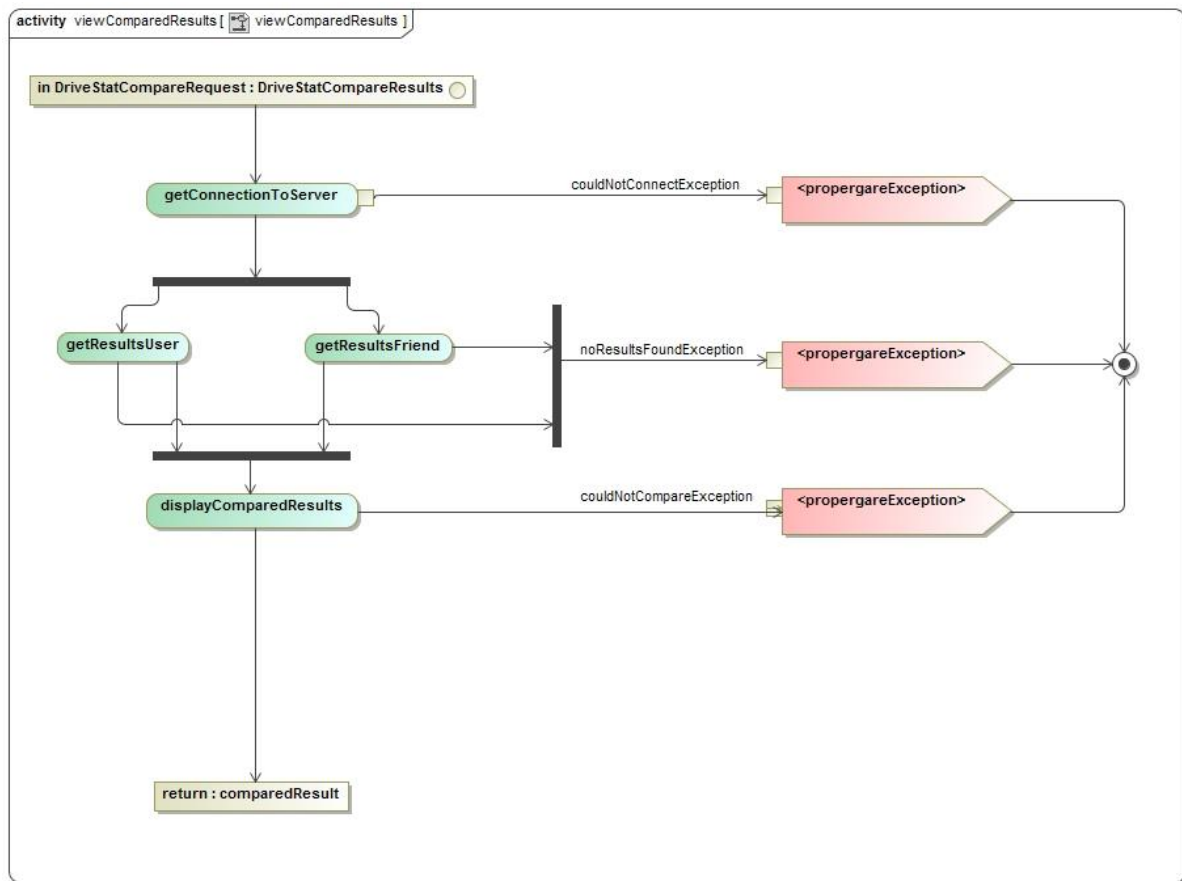
Use case

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".

activity viewComparedResults [viewComparedResults]

in DriveStatCompareRequest : DriveStatCompareResults

getConnectionToServer ──── couldNotConnectException ──── <propergareException>

getResultsUser   getResultsFriend ──── noResultsFoundException ──── <propergareException>

displayComparedResults ──── couldNotCompareException ──── <propergareException>

return : comparedResult

Bibliography

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