



DRIVESTATS

Functional Requirements Documentation



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https://github.com/AxelInd/COS301_DriveStats/

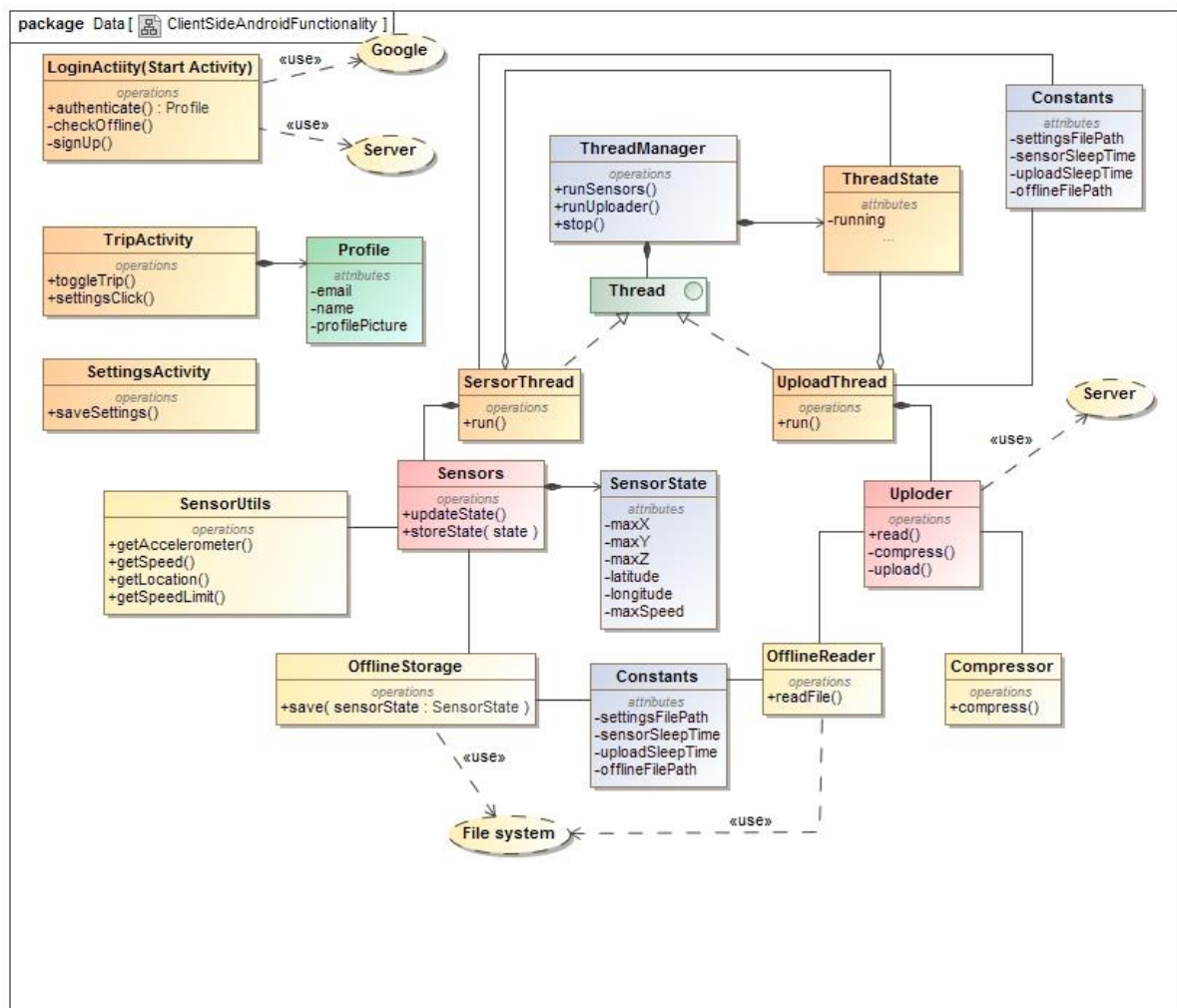
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High Level Class Diagrams

Client Side Android Functionality

This section refers to the mobile application aspect of the DVT DriveStats program. This details the use of activities, external application requests, sensor data aggregation, and their respective management.



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.

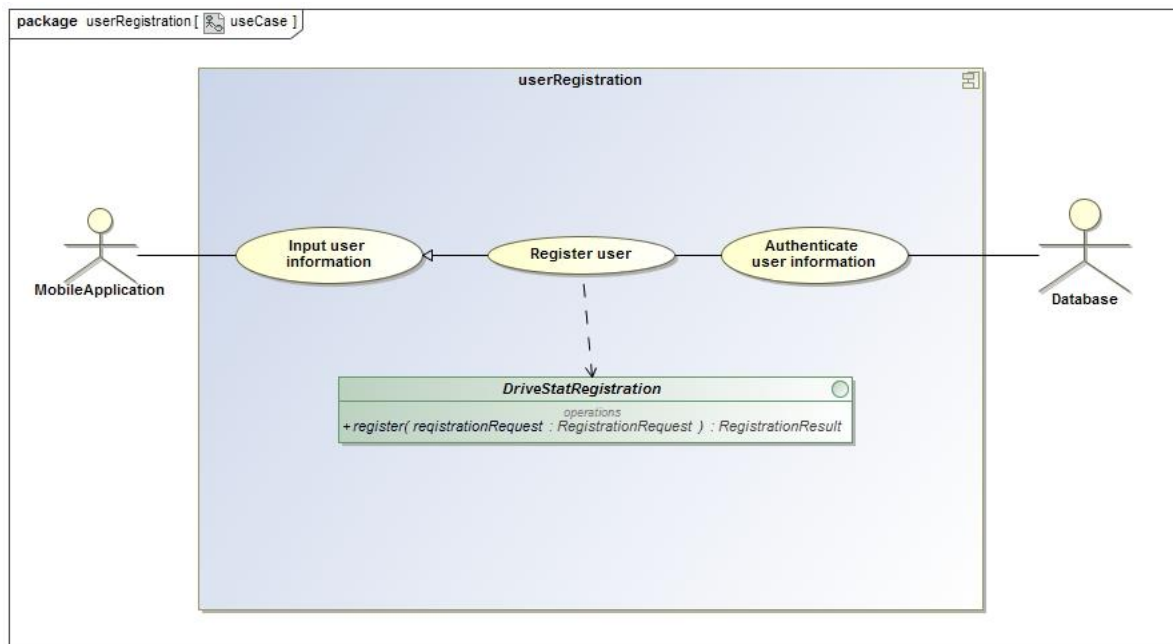
Critical

userRegistration

Description

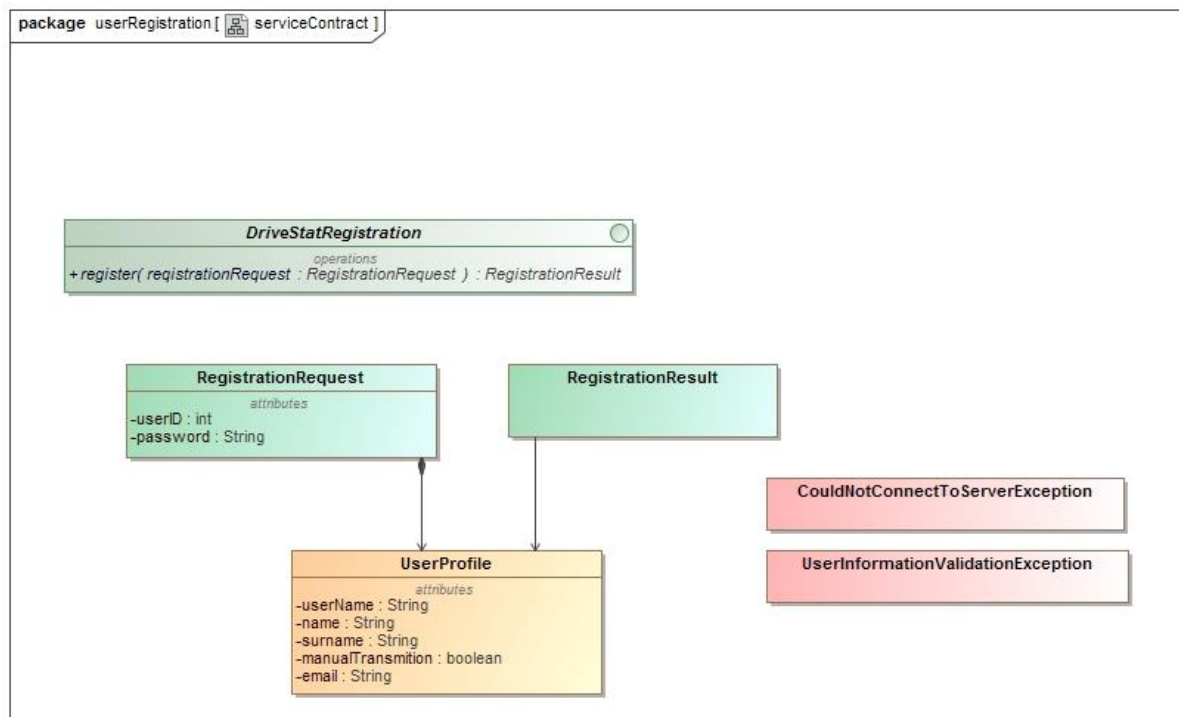
This use case will be used by the android client and the web interface to allow new users to save their information in the database.

Use Case



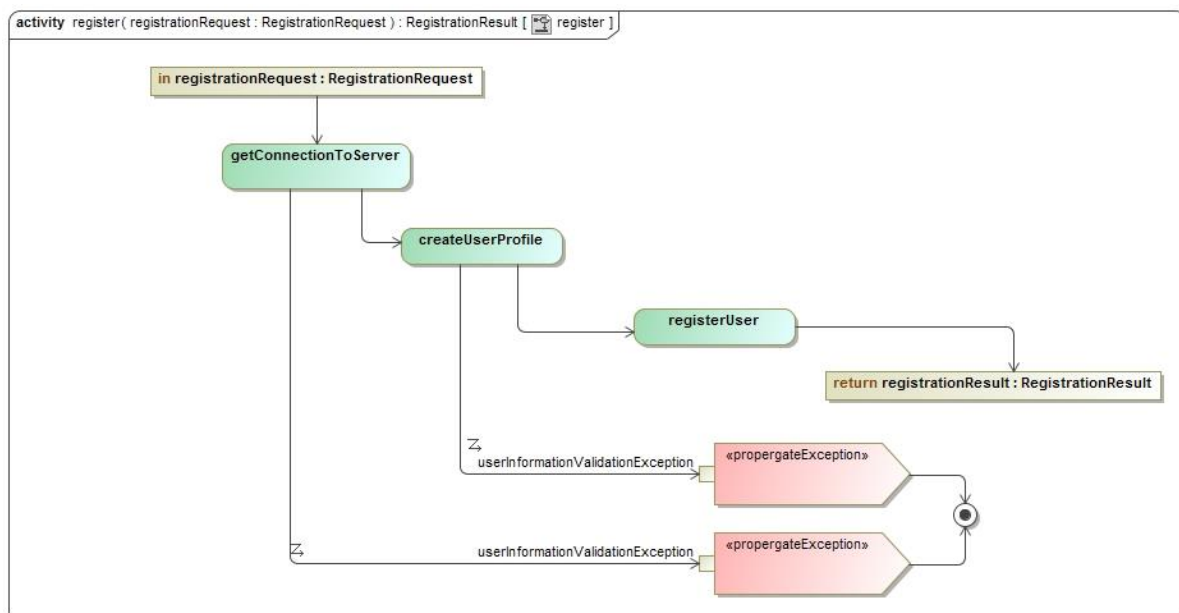
Service Contract

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.

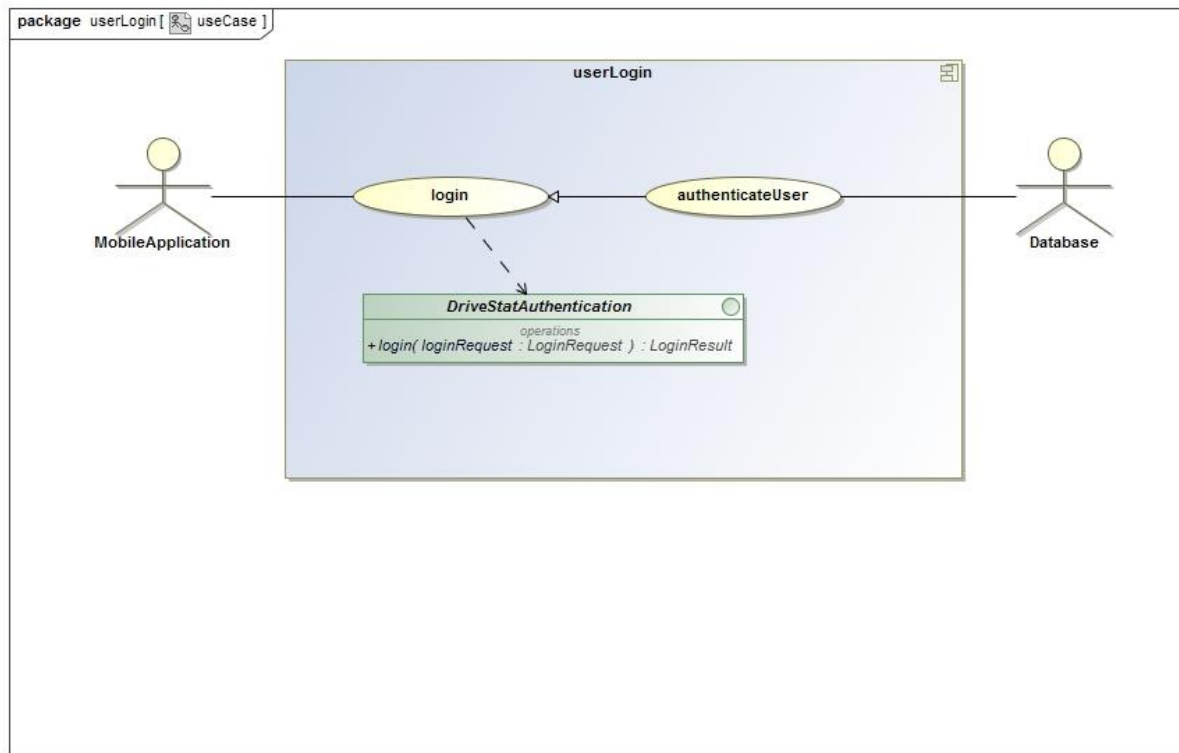


userLogin

Description

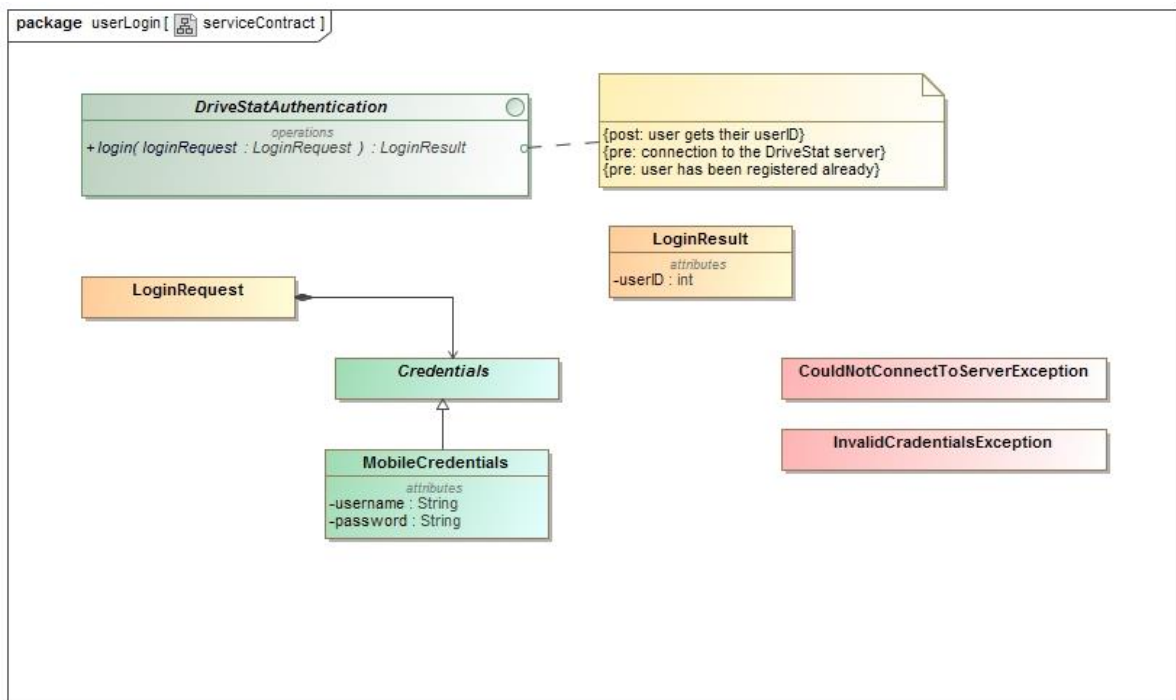
This use case will be used by the android client to initiate login, via the server, for use on the client-side Android application. This use case extends to direct login of a system admin for server manipulation.

Use case



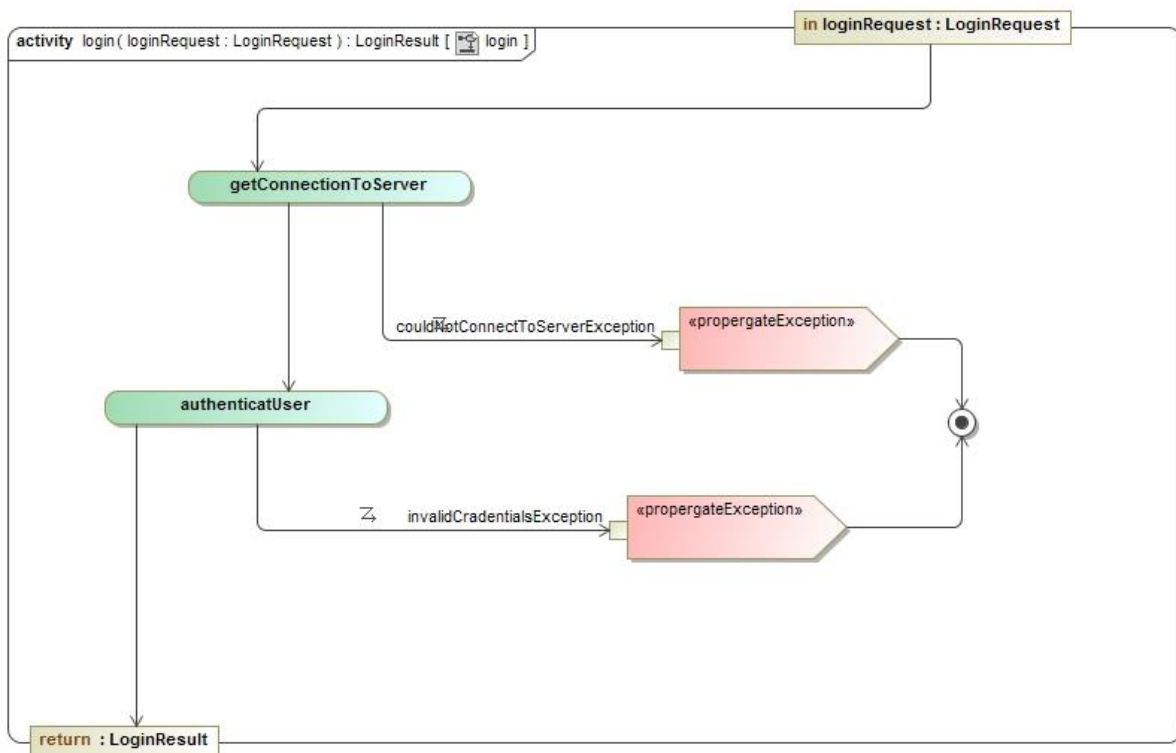
Service Contract

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.

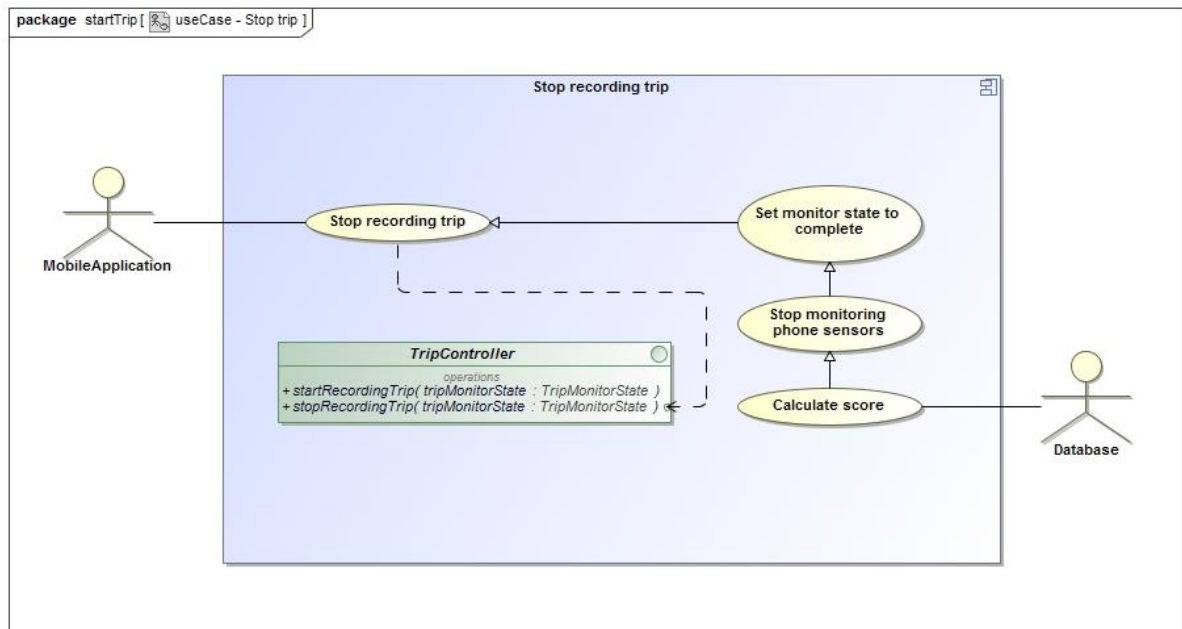
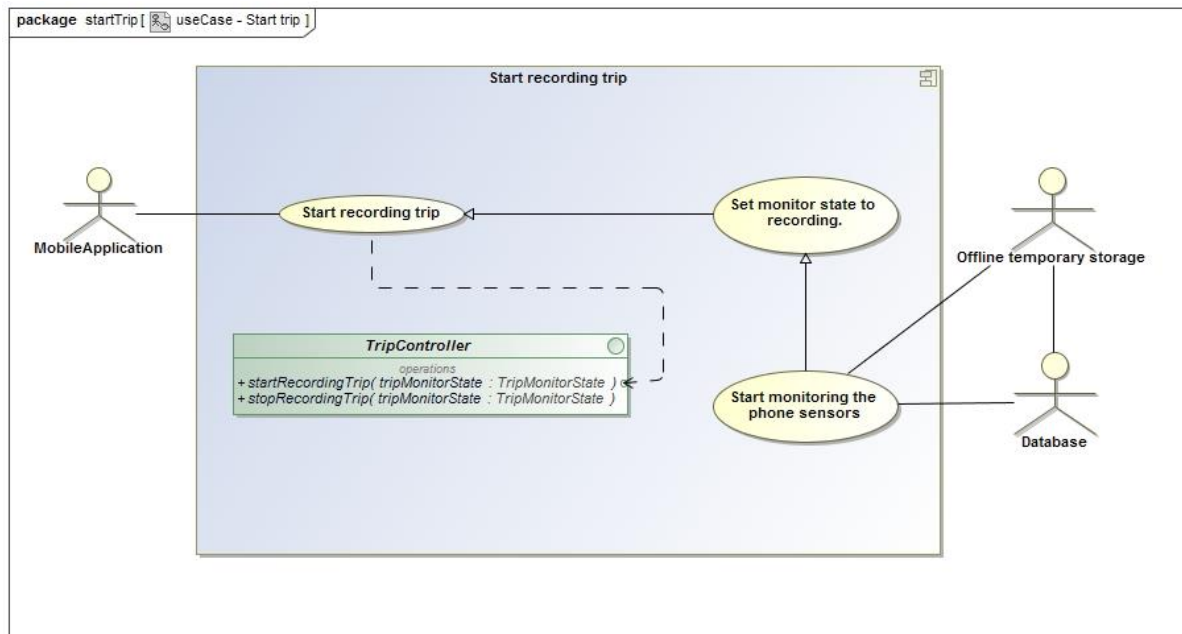


TripMonitorState

Description

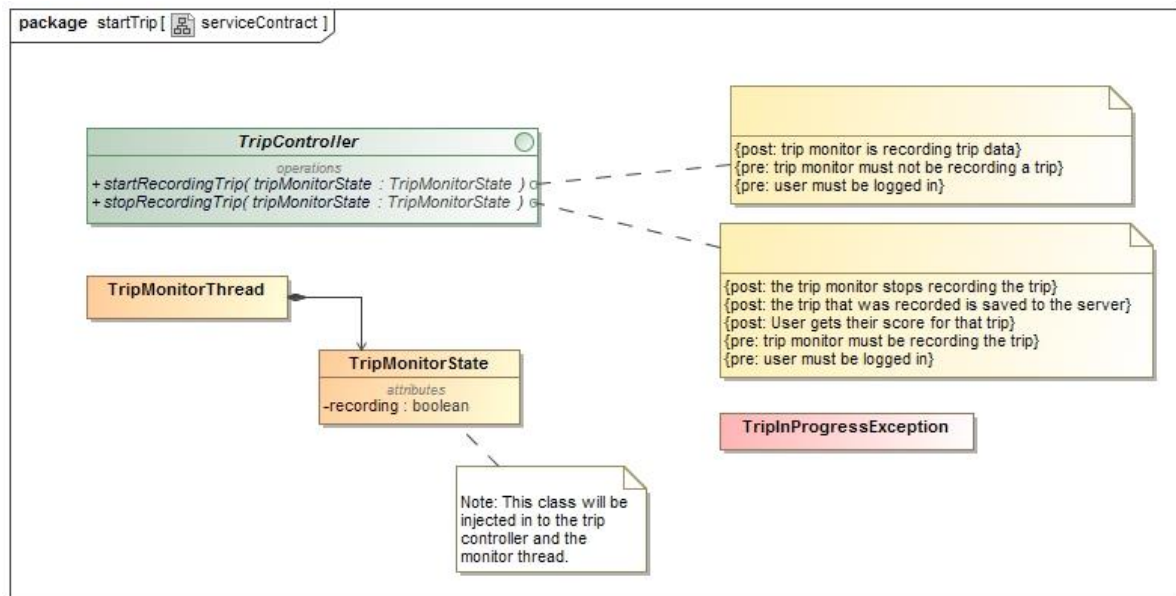
This use case will be used by the user to activate and deactivate the monitoring of the phones sensors.

Use cases



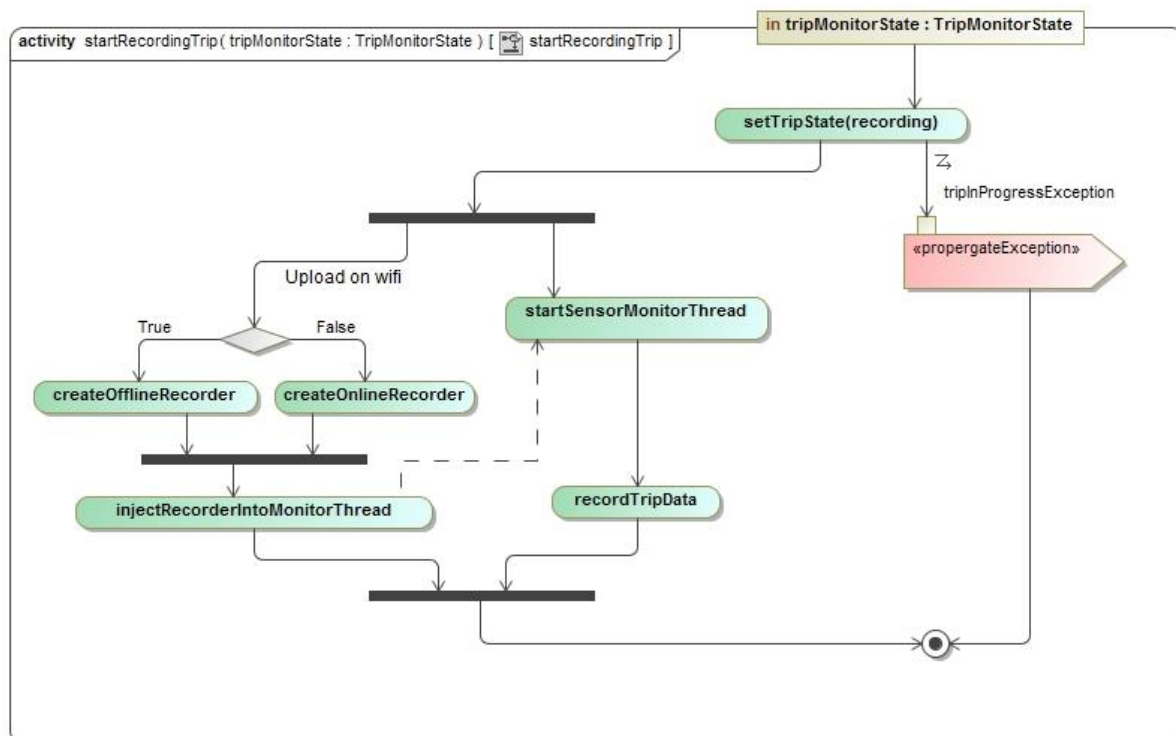
Service Contract

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.



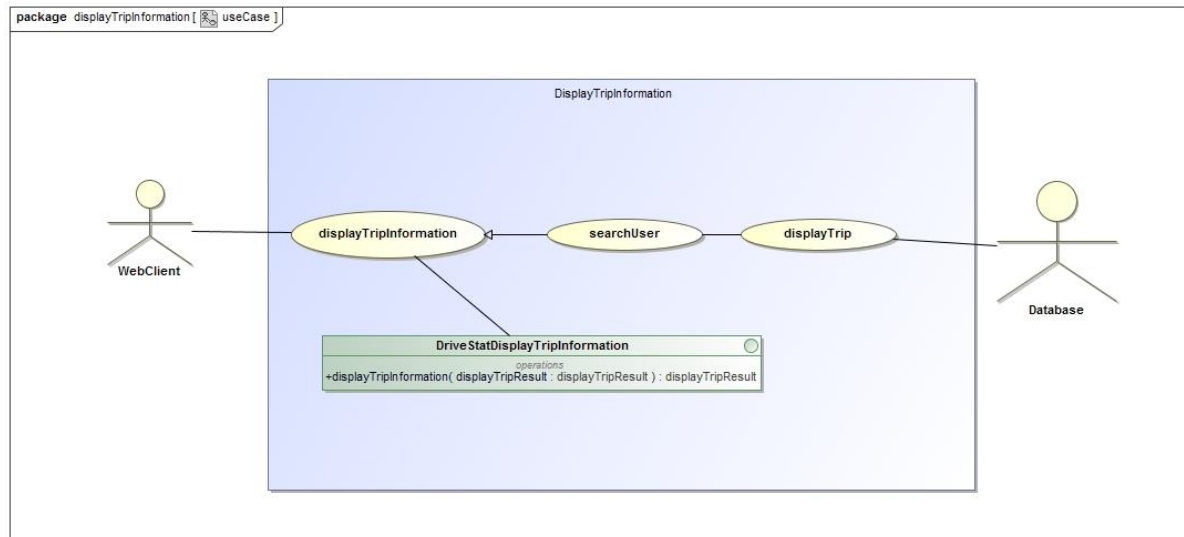
Important

DisplayTripInformation

Description

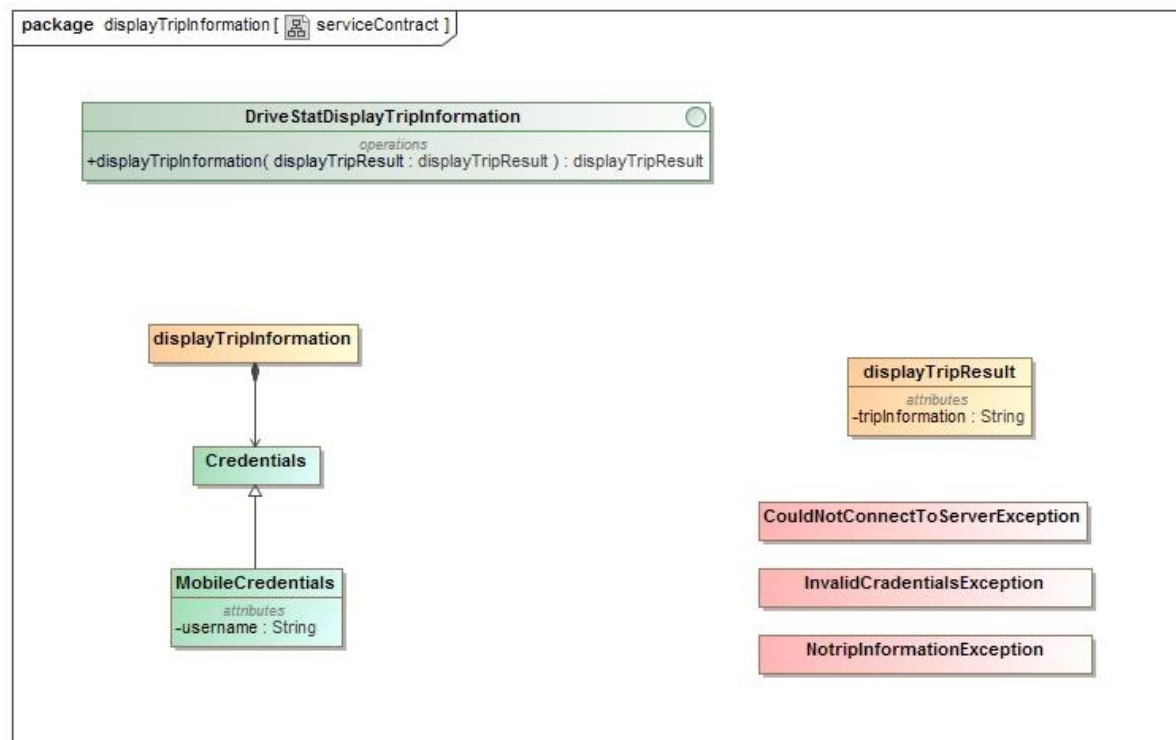
This use case will be used by the user to receive a graphical display of the use information from their current trip.

Use case



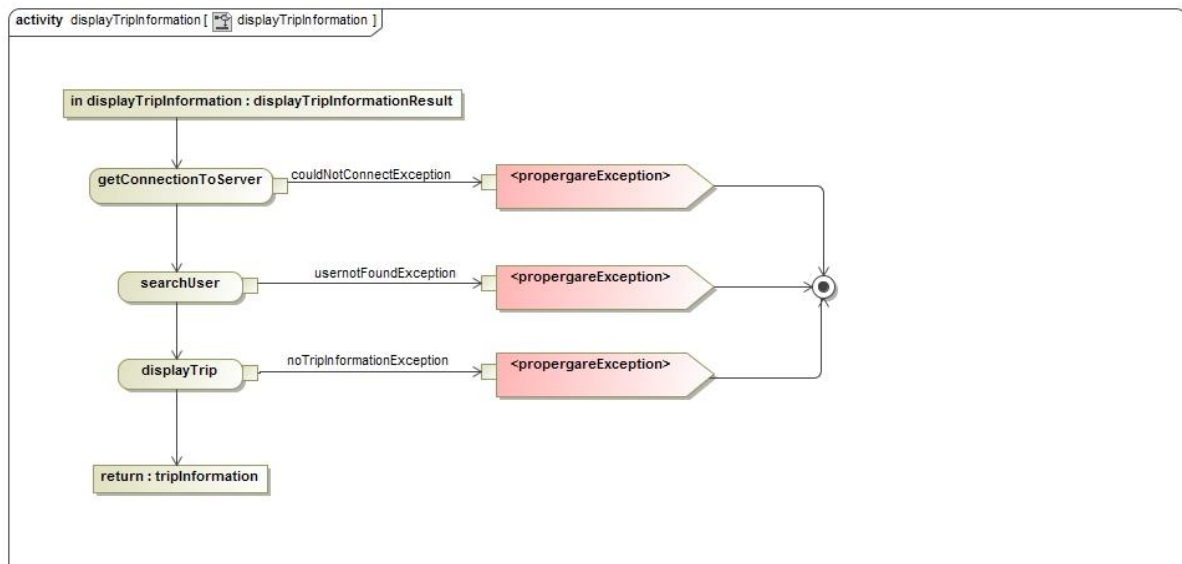
Service Contract

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.



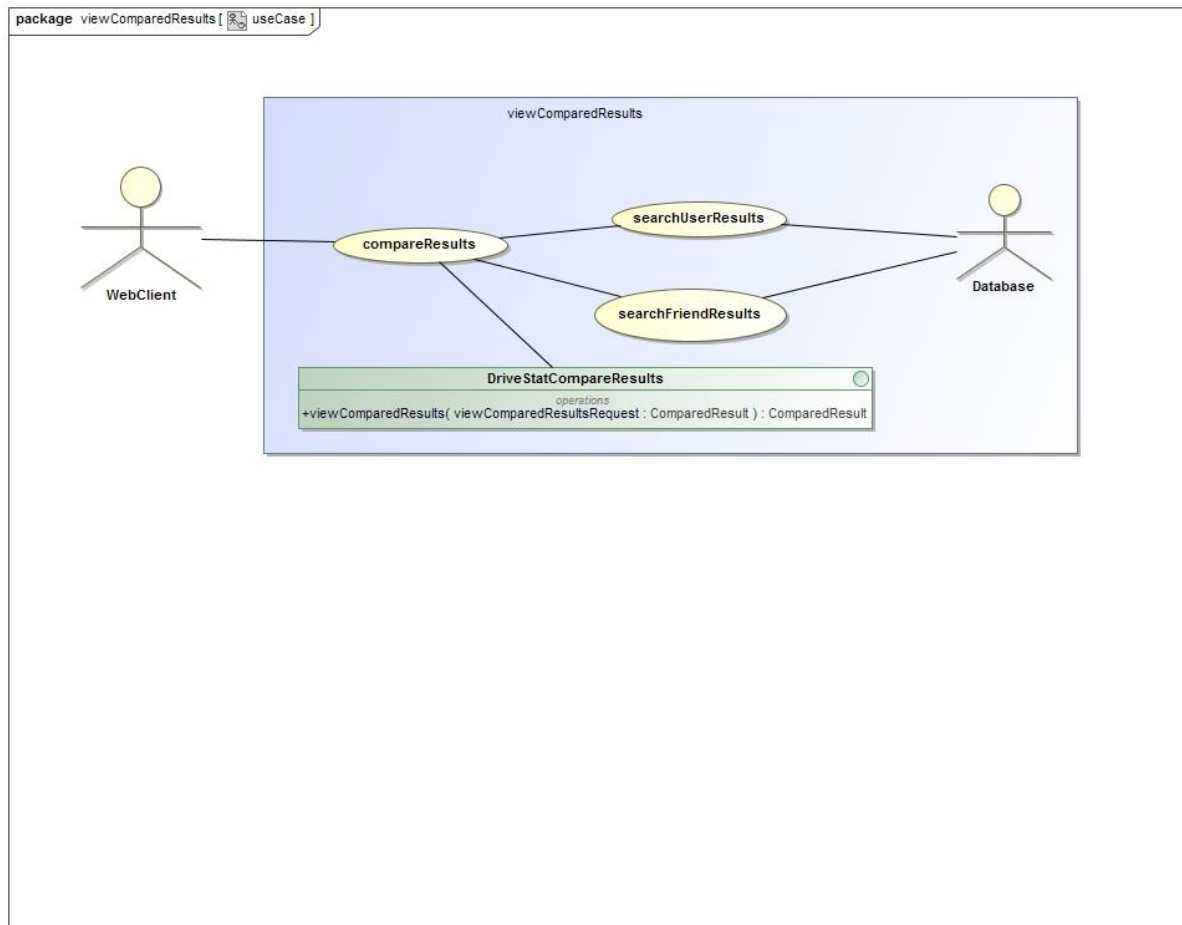
Nice-To-Have

viewComparedResults

Description

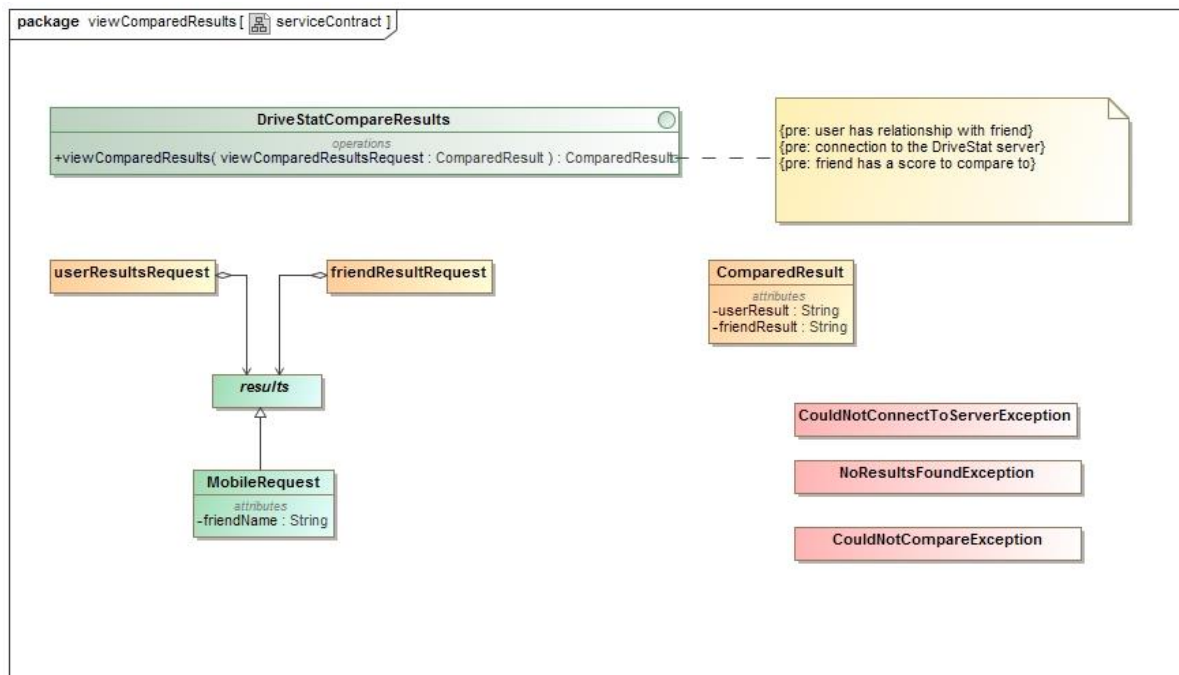
This use case describes the mechanism by which the user will be able to compare their trip information against that of their “Friends”.

Use case



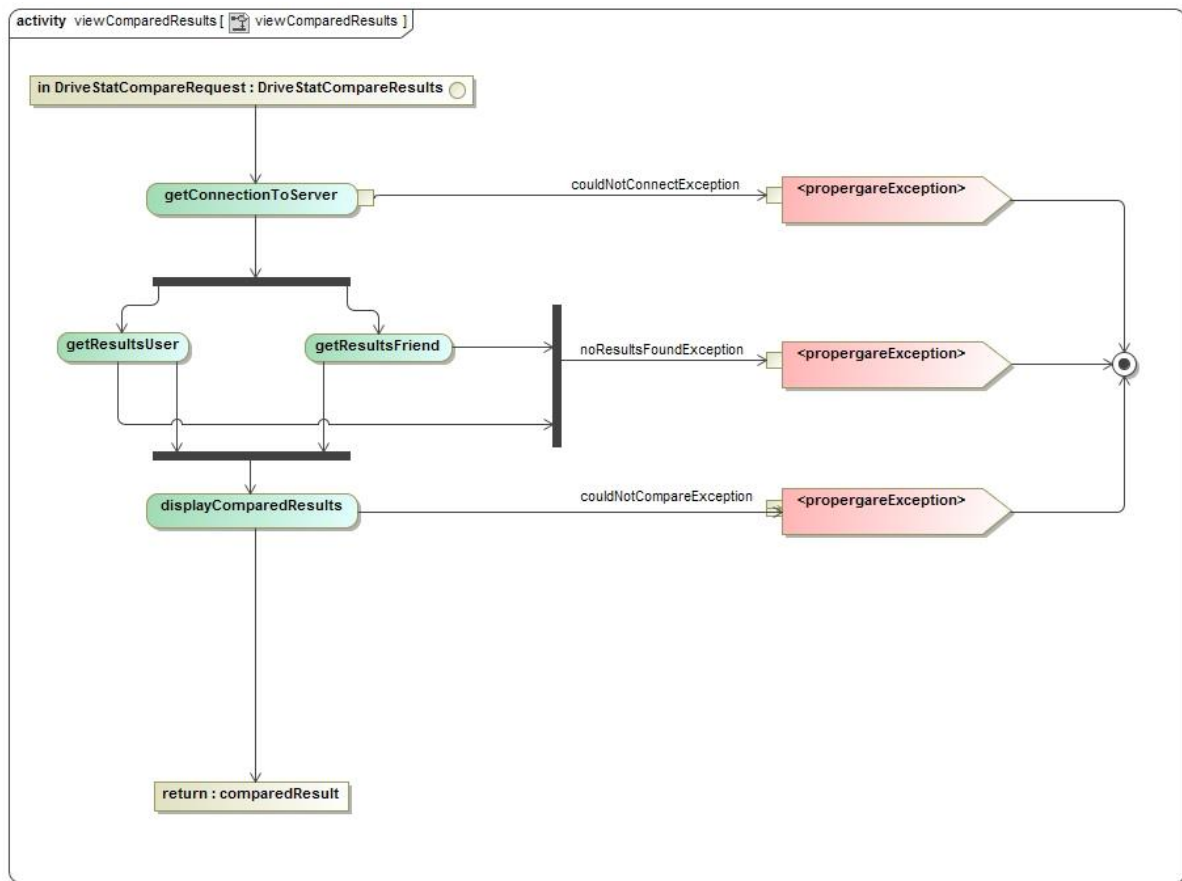
Service contract

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

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

Develop core functionality of server and app

June 2015

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
21	22	23	24	25	26	27
28	29	30				

Bibliography

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