instance, the above example illustrates a Behavior-Driven Development (BDD) style.

GIT as a source code repository

GIT [64] is a distributed version control system. Its highlights include: distributed development, strong support for non-linear development, efficient handling of large projects, and cryptographic authentication of history.

DETAILED DESIGN

Central Service

The central service is the key component of the system. Data collected by the sensing station are all sent to the central service for further processing. The algorithm of car identification resides here. Also if a client wants to query car identification result, it needs to query from the central service as well.

The user interface of the central service is a RESTful web service. With this interface, sensing stations can push data collected to the service. The central service then parses the data, generates domain models, and with the help from repositories saves the data into database. With these data, the car identification algorithm can perform computation and get the result.

The car identification algorithm is behind another RESTful web service. This web service is designed specifically for clients to query the result. The querying event triggers a identification action. As described in the algorithm sections, this event puts a test data into the classification algorithm and returns the result.

Whenever new data is captured by the sensing station, it is pushed back to the central server and added to the training dataset. The algorithm performs learning on this dataset to output a classifier, which is used to do car identification.