

# NMEA project

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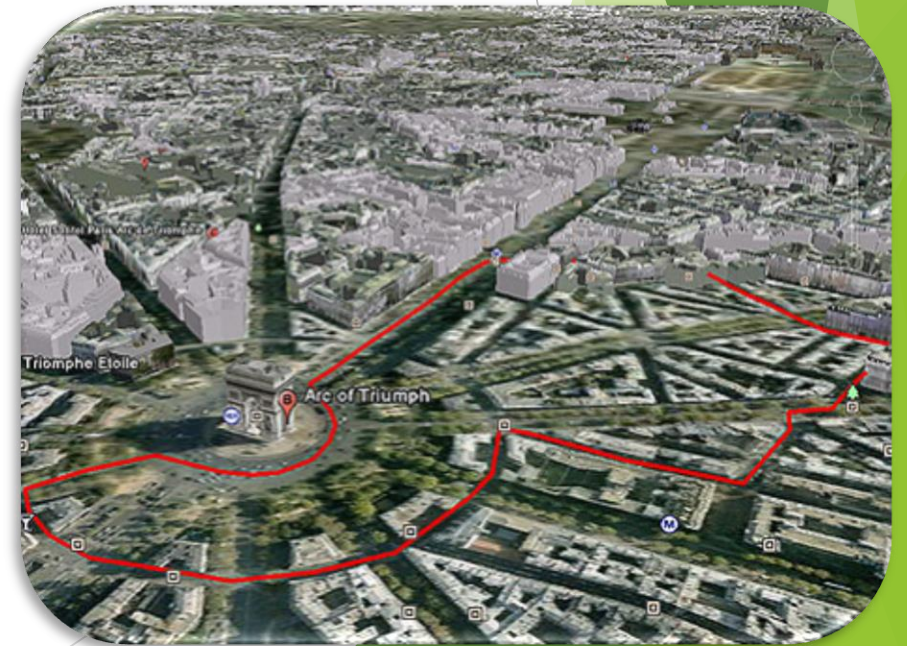


# Software Requirements Specification

Software that accepts NMEA files.

The software saves all data and gives the user an option to filter by file name, dates, times or location

And view them using google earth or excel (CSV or KML accordingly)



# Use cases

- ▶ Use Case: Putting information
- ▶ Actors: User
- ▶ Purpose: Filling DB with data
- ▶ Description: The user enters NMEA files into the system, the system stores the data in DB.

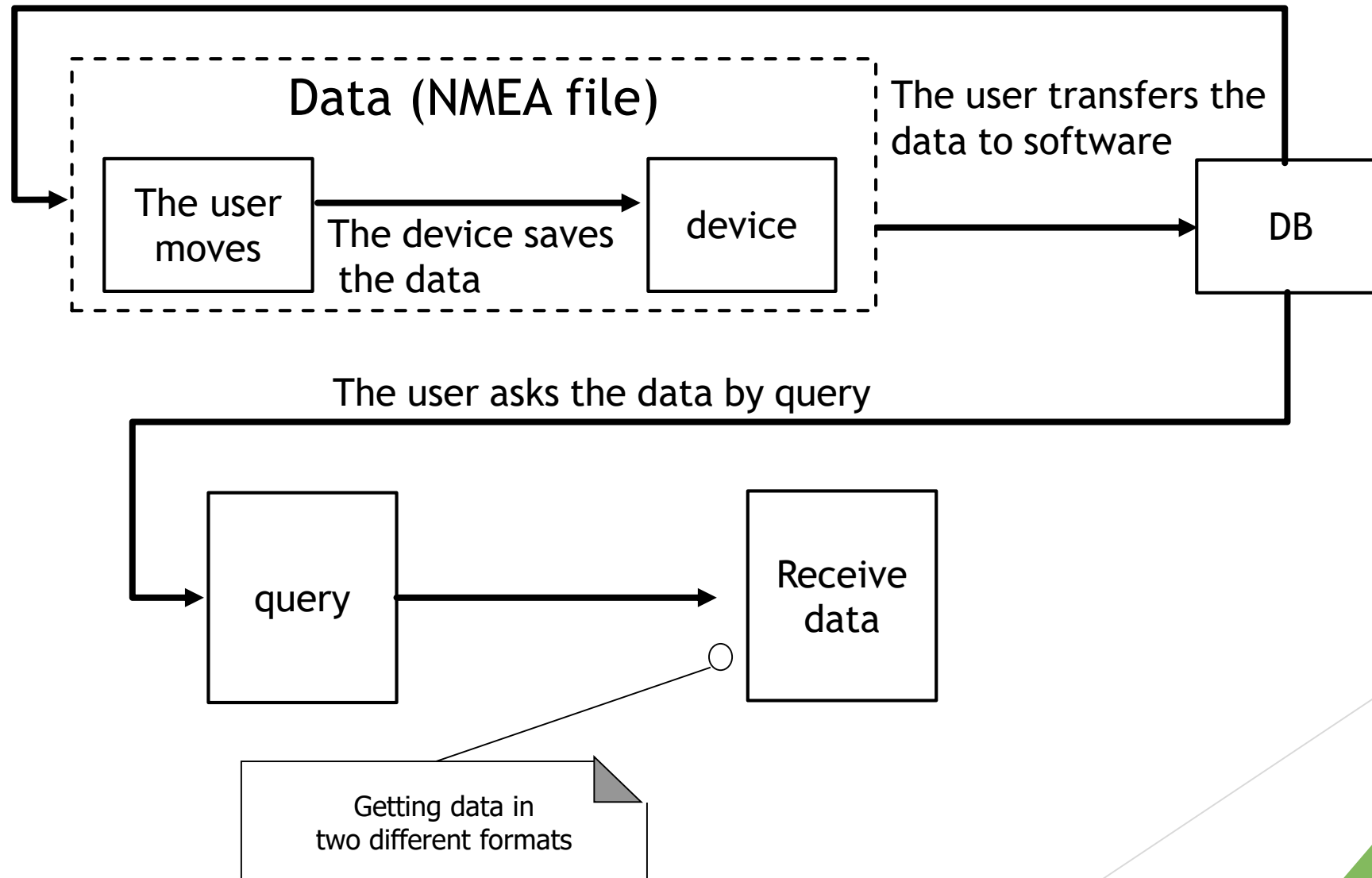
# Use cases

- ▶ Use Case: query
- ▶ Actors: User
- ▶ Purpose: Data filtering
- ▶ Description: The user chooses what data will be filtered

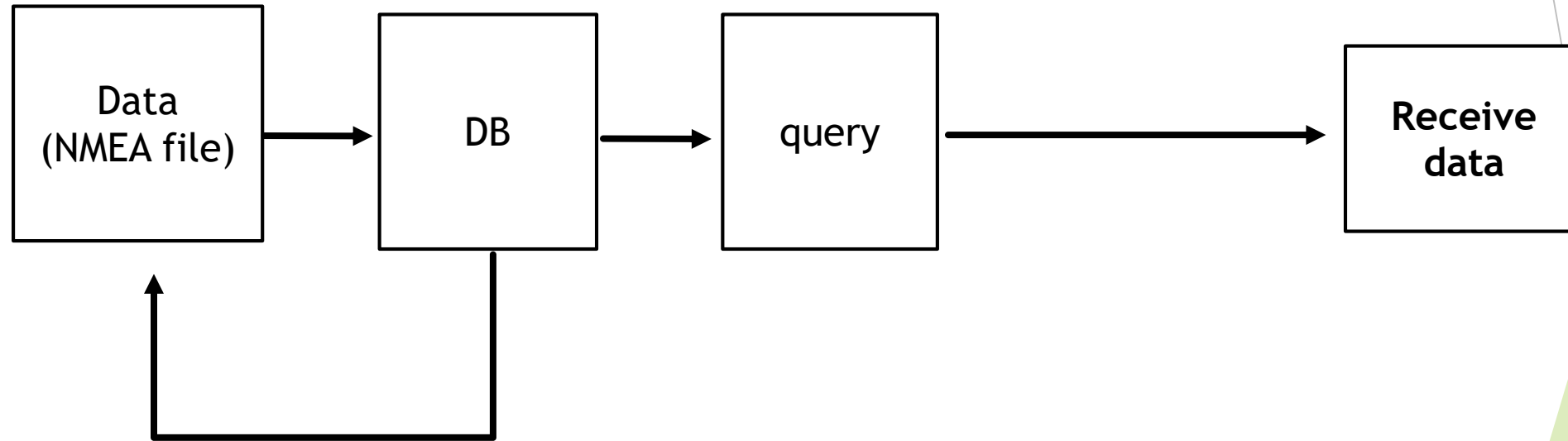
# Use cases

- ▶ Use Case: getting information
- ▶ Actors: User
- ▶ Purpose: Getting data format that the user can view him
- ▶ Description: In accordance with query, the user receives the data from the DB

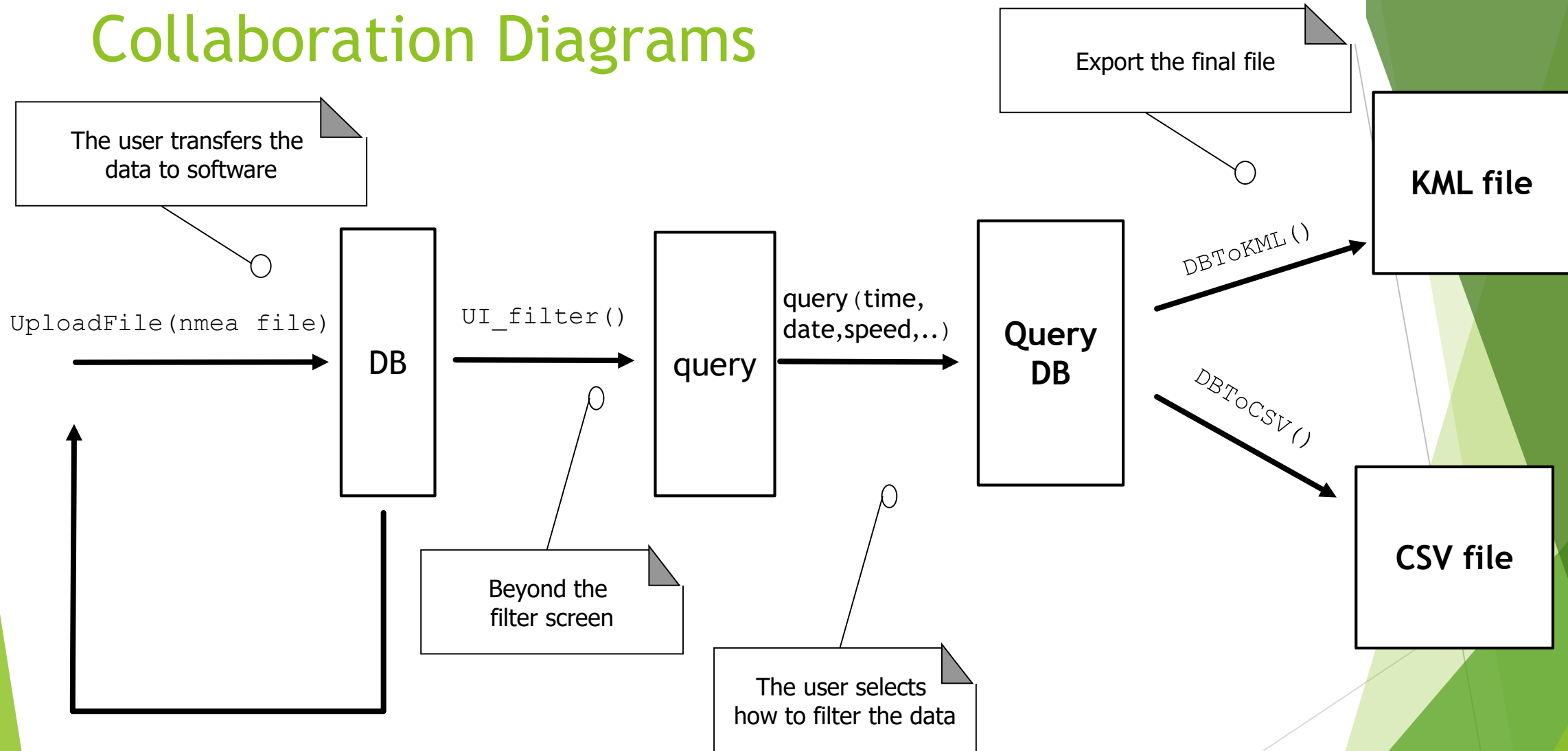
# Conceptual Model



# Advanced associations

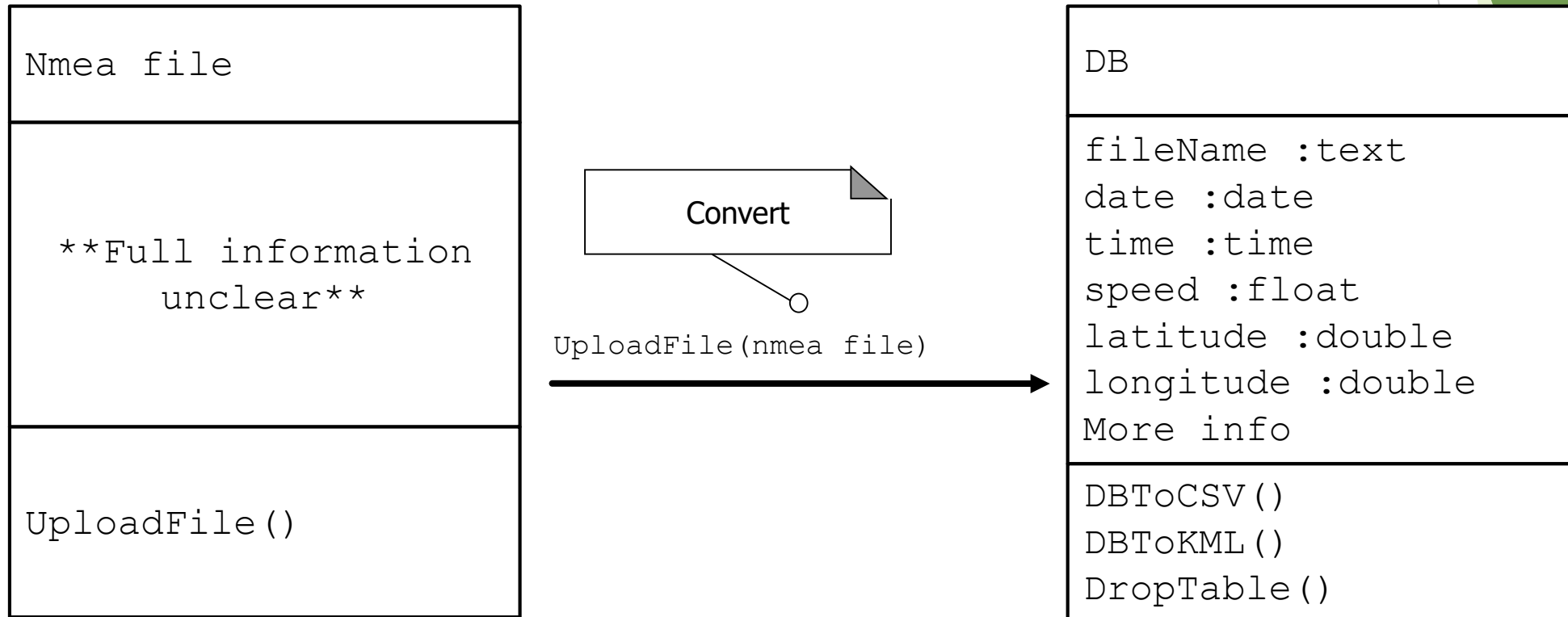


# Collaboration Diagrams


















# Design Class Diagrams



# A detailed diagram of the DB

 fileName	text	`fileName` text
 date	date	`date` date
 time	time	`time` time
 speed	float	`speed` float
 latitude	double	`latitude` double
 latitude_direction	text	`latitude_direction` text
 longitude	double	`longitude` double
 longitude_direction	text	`longitude_direction` text
 fix	text	`fix` text
 horizontal_dilution	text	`horizontal_dilution` text
 altitude	text	`altitude` text
 direct_of_altitude	text	`direct_of_altitude` text
 altitude_location	text	`altitude_location` text

# Sources

- ▶ <http://www.gpsinformation.org/dale/nmea.htm>
- ▶ <https://github.com/joabakk/Dynamic-NMEA-polar-diagram>
- ▶ <https://github.com/elcio/mysql2csv>
- ▶ <https://www.youtube.com/watch?v=B5XTGyfFmtc>