

## Sequence UML diagram

### Exercise

In the system supporting the management of urban courier company to choose how to carry a shipment is carried out the simulation of time of carrying by different types of transport (bicycle, motorbike, car, truck). For this purpose, an object of class Analyst wanting to know the best mean of transport, creates a temporary object of class Estimation (that at the end of the estimation is removed). The time needed to transport a package depends on the size and distance (for example, not every package can be transported by a bicycle, and the transport of a letter not need a truck). Draw a sequence diagram for this situation.

Classes and methods for use:

<i>TransportMeans</i>	<i>Number()</i> – returns the number of transport means <i>GetMean(no)</i> – returns the transport mean from the item of a specified number
<i>TransportMean</i>	<i>IsTransportability(shipment)</i> – is it possible to carry this shipment by this transport mean
<i>CityPlan</i>	<i>Time(start, end, mean)</i> – returns the time needed to reach the goal by defined mean
<i>Estimation</i>	<i>Estimation(start, end, shipment)</i> – constructor, calculates times for the various options <i>GetQuickest()</i> – returns the fastest transport mean in this case

### Proposition of solution

(see the next site)

