This write up is about the process of the task in "Shiny Developer @Appsilon"

I first downloaded the dataset and realised that the data is about 400MB, which is not efficient to be read-in every time and stored onto the repository. Thus, my first task is to trim down this dataset which contains only the shiny application's required variables and observations.

The variables that I would need are described below, these variables can be subdivided into two groups: the variables about the ship information and the variables to computes the distances from the begin to the end of the movement.

The variable about the ship information are:

* Ship\_type - ship’s type from SHIPTYPE
* DESTINATION - ship’s destination (reported by the crew)
* FLAG - ship’s flag
* LENGTH - ship’s length in meters
* SHIPNAME - ship’s name
* SHIPTYPE - ship’s type
* SHIP\_ID - ship’s unique identifier
* WIDTH - ship’s width in meters
* DWT - ship’s deadweight in tones
* DATETIME - date and time of the observation
* PORT - current port reported by the vessel

The variable for computing the distances that the ship travelled are:

* Is\_parked - indicator whether the ship is moving or not
* LAT - ship’s latitude
* LON - ship’s longitude
* SPEED - ship’s speed in knots
* COURSE - ship’s course as angle
* HEADING - ship’s compass direction