Data

To find the best location for a fitness center, we need to research each district in the administrative district of Moscow we have chosen for analysis. For the implementation of the project, it is important to obtain a list of the names of 12 boroughs and 125 neighborhoods of the city of Moscow with their reference to geographic coordinates. This is necessary for the segmentation and study of city districts, that is, we need a dataset containing boroughs and neighborhoods, as well as the latitude and longitude coordinates of each neighborhoods.

Fortunately, this dataset is available free on the Internet. We will use information from the open data portal of the Moscow Government (https://data.mos.ru). According to the portal, more than 1000 thematic data sets and reference books have been published on it, which disclose information on more than 1,900,000 urban infrastructure facilities. The most widely presented data on the portal are education, sports, health care, key cultural and leisure places. For residents and guests of Moscow, data is presented in tabular and cartographic form, and for developers - in specialized machine-readable formats. I will use a JSON dataset. The portal allows you to work with data directly through the REST API, but we will simplify the task by loading the 'data-4275-2021-06-01.json' file locally - which contains all the information we need to implement the project.

Here is a link to this file https://op.mos.ru/EHDWSREST/catalog/export/get?id=1106105

We will use data from the geo-powered social networking Foursquare (https://foursquare.com), which we will retrieve using the Foursquare API. These data contain recommendations for venues, including for all districts of Moscow, and are used to study popular venues in various districts.