





Результат	В ходе лабораторной работы мы
	научились работать с сайтом
	https://dadata.ru/api/geolocate/,
	авторизироваться с помощью АРІ-
	ключей, создавать ссылки на
	коллекции.

Критерий оценивания

Отлично	Четко, лаконично, по факту, гитхаб
	на ура
Хорошо	Небольшие корректировки
Удовлетворительно	С вопросами, и комментариями
Неудовлетворительно	Ничего непонятно

Листинг 1. Ссылка на коллекцию

https://www.postman.com/research-engineer-21444594/workspace/lab5/collection/38279878-69cff1a2-b46f-4be7-ab17e2508bb870da?action=share&creator=38279878

```
Листинг 2.

{
    "suggestions": [
        {
             "value": "Казахстан, г Астана, район Есиль, ул Шакена
            Айманова, д 11",
            "unrestricted_value": "010000, Казахстан, г Астана, район Есиль,
            ул Шакена Айманова, д 11",
            "data": {
                  "postal_code": "010000",
                  "country": "Казахстан",
                  "country_iso_code": "KZ",
                  "federal_district": null,
                  "region_fias_id": "relation:3087155",
                  "region_kladr_id": null,
```

```
"region_iso_code": "KZ-AST",
"region_with_type": "г Астана",
"region_type": "r",
"region_type_full": "город",
"region": "Астана",
"area_fias_id": "relation:3479876",
"area_kladr_id": null,
"area_with_type": "район Есиль",
"area type": null,
"area_type_full": null,
"area": "район Есиль",
"city_fias_id": "relation:3087155",
"city_kladr_id": null,
"city_with_type": "г Астана",
"city type": "r",
"city type full": "город",
"city": "Астана",
"city_area": null,
"city_district_fias_id": null,
"city_district_kladr_id": null,
"city_district_with_type": null,
"city district type": null,
"city_district_type_full": null,
"city_district": null,
"settlement_fias_id": null,
"settlement_kladr_id": null,
"settlement_with_type": null,
"settlement type": null,
"settlement_type_full": null,
```

```
"settlement": null,
"street_fias_id": "way:25547411",
"street_kladr_id": null,
"street_with_type": "ул Шакена Айманова",
"street_type": "ул",
"street_type_full": "улица",
"street": "Шакена Айманова",
"stead_fias_id": null,
"stead cadnum": null,
"stead_type": null,
"stead_type_full": null,
"stead": null,
"house_fias_id": "way:241594855",
"house_kladr_id": null,
"house cadnum": null,
"house flat count": null,
"house_type": "д",
"house_type_full": "дом",
"house": "11",
"block_type": null,
"block_type_full": null,
"block": null,
"entrance": null,
"floor": null,
"flat_fias_id": null,
"flat_cadnum": null,
"flat_type": null,
"flat_type_full": null,
"flat": null,
```

```
"flat_area": null,
"square_meter_price": null,
"flat_price": null,
"room_fias_id": null,
"room_cadnum": null,
"room_type": null,
"room_type_full": null,
"room": null,
"postal_box": null,
"fias_id": "way:241594855",
"fias_code": null,
"fias_level": "-1",
"fias_actuality_state": "0",
"kladr_id": null,
"geoname_id": null,
"capital_marker": "0",
"okato": null,
"oktmo": null,
"tax_office": null,
"tax_office_legal": null,
"timezone": null,
"geo_lat": "51.1813125",
"geo_lon": "71.4278365",
"beltway_hit": null,
"beltway_distance": null,
"metro": null,
"divisions": null,
"qc_geo": "0",
"qc_complete": null,
```

```
"qc_house": null,
        "history_values": null,
        "unparsed_parts": null,
        "source": null,
        "qc": null
      }
    },
    {
      "value": "Казахстан, г Астана, район Есиль, ул Ыкылас
Дукенулы, д 23/1",
      "unrestricted value": "010000, Казахстан, г Астана, район Есиль,
ул Ыкылас Дукенулы, д 23/1",
      "data": {
        "postal_code": "010000",
        "country": "Казахстан",
        "country_iso_code": "KZ",
         "federal district": null,
        "region_fias_id": "relation:3087155",
        "region_kladr_id": null,
        "region_iso_code": "KZ-AST",
        "region_with_type": "г Астана",
        "region_type": "Γ",
        "region_type_full": "город",
        "region": "Астана",
        "area_fias_id": "relation:3479876",
         "area kladr id": null,
        "area with type": "район Есиль",
        "area_type": null,
        "area_type_full": null,
```

```
"area": "район Есиль",
"city_fias_id": "relation:3087155",
"city_kladr_id": null,
"city_with_type": "г Астана",
"city_type": "r",
"city_type_full": "город",
"city": "Астана",
"city_area": null,
"city district fias id": null,
"city_district_kladr_id": null,
"city_district_with_type": null,
"city_district_type": null,
"city_district_type_full": null,
"city_district": null,
"settlement fias id": null,
"settlement kladr id": null,
"settlement_with_type": null,
"settlement_type": null,
"settlement_type_full": null,
"settlement": null,
"street_fias_id": "way:178063506",
"street kladr id": null,
"street_with_type": "ул Ыкылас Дукенулы",
"street_type": "ул",
"street_type_full": "улица",
"street": "Ыкылас Дукенулы",
"stead_fias_id": null,
"stead cadnum": null,
"stead type": null,
```

```
"stead_type_full": null,
"stead": null,
"house_fias_id": "way:241594833",
"house_kladr_id": null,
"house_cadnum": null,
"house_flat_count": null,
"house_type": "д",
"house_type_full": "дом",
"house": "23/1",
"block_type": null,
"block_type_full": null,
"block": null,
"entrance": null,
"floor": null,
"flat_fias_id": null,
"flat_cadnum": null,
"flat_type": null,
"flat_type_full": null,
"flat": null,
"flat_area": null,
"square_meter_price": null,
"flat_price": null,
"room_fias_id": null,
"room_cadnum": null,
"room_type": null,
"room_type_full": null,
"room": null,
"postal_box": null,
"fias_id": "way:241594833",
```

```
"fias_level": "-1",
         "fias_actuality_state": "0",
         "kladr_id": null,
         "geoname_id": null,
         "capital_marker": "0",
         "okato": null,
         "oktmo": null,
         "tax_office": null,
         "tax_office_legal": null,
         "timezone": null,
         "geo_lat": "51.1812388",
         "geo_lon": "71.4270204",
         "beltway_hit": null,
         "beltway distance": null,
         "metro": null,
         "divisions": null,
         "qc_geo": "0",
         "qc_complete": null,
         "qc_house": null,
         "history_values": null,
         "unparsed_parts": null,
         "source": null,
         "qc": null
      }
    },
    {
       "value": "Казахстан, г Астана, район Есиль, ул Шакена
Айманова, д 9",
```

"fias_code": null,

```
"unrestricted_value": "010000, Казахстан, г Астана, район Есиль,
ул Шакена Айманова, д 9",
      "data": {
         "postal_code": "010000",
         "country": "Казахстан",
         "country_iso_code": "KZ",
         "federal_district": null,
         "region fias id": "relation:3087155",
         "region_kladr_id": null,
         "region_iso_code": "KZ-AST",
         "region with type": "г Астана",
         "region type": "Γ",
         "region_type_full": "город",
         "region": "Астана",
         "area_fias_id": "relation:3479876",
         "area_kladr_id": null,
         "area_with_type": "район Есиль",
         "area type": null,
         "area_type_full": null,
         "area": "район Есиль",
         "city_fias_id": "relation:3087155",
         "city_kladr_id": null,
         "city_with_type": "г Астана",
         "city type": "r",
         "city_type_full": "город",
         "city": "Астана",
         "city area": null,
         "city_district_fias_id": null,
```

"city_district_kladr_id": null,

```
"city_district_with_type": null,
"city_district_type": null,
"city_district_type_full": null,
"city_district": null,
"settlement_fias_id": null,
"settlement kladr id": null,
"settlement_with_type": null,
"settlement_type": null,
"settlement type full": null,
"settlement": null,
"street_fias_id": "way:25547411",
"street_kladr_id": null,
"street_with_type": "ул Шакена Айманова",
"street_type": "ул",
"street_type_full": "улица",
"street": "Шакена Айманова",
"stead_fias_id": null,
"stead_cadnum": null,
"stead_type": null,
"stead_type_full": null,
"stead": null,
"house_fias_id": "node:4286097094",
"house_kladr_id": null,
"house_cadnum": null,
"house_flat_count": null,
"house_type": "д",
"house_type_full": "дом",
"house": "9",
"block_type": null,
```

```
"block_type_full": null,
"block": null,
"entrance": null,
"floor": null,
"flat_fias_id": null,
"flat_cadnum": null,
"flat_type": null,
"flat_type_full": null,
"flat": null,
"flat_area": null,
"square_meter_price": null,
"flat_price": null,
"room fias id": null,
"room_cadnum": null,
"room_type": null,
"room_type_full": null,
"room": null,
"postal_box": null,
"fias_id": "node:4286097094",
"fias_code": null,
"fias_level": "-1",
"fias_actuality_state": "0",
"kladr_id": null,
"geoname_id": null,
"capital_marker": "0",
"okato": null,
"oktmo": null,
"tax_office": null,
"tax_office_legal": null,
```

```
"geo_lat": "51.1805418",
         "geo_lon": "71.4280193",
         "beltway_hit": null,
         "beltway_distance": null,
         "metro": null,
         "divisions": null,
         "qc_geo": "0",
         "qc_complete": null,
         "qc_house": null,
         "history_values": null,
         "unparsed_parts": null,
         "source": null,
         "qc": null
      }
    },
    {
      "value": "Казахстан, г Астана, район Есиль, ул Ыкылас
Дукенулы, д 23",
      "unrestricted_value": "010000, Казахстан, г Астана, район Есиль,
ул Ыкылас Дукенулы, д 23",
      "data": {
         "postal_code": "010000",
         "country": "Казахстан",
         "country_iso_code": "KZ",
         "federal_district": null,
         "region_fias_id": "relation:3087155",
         "region_kladr_id": null,
         "region_iso_code": "KZ-AST",
```

"timezone": null,

```
"region_with_type": "г Астана",
"region_type": "Γ",
"region_type_full": "город",
"region": "Астана",
"area_fias_id": "relation:3479876",
"area_kladr_id": null,
"area_with_type": "район Есиль",
"area_type": null,
"area type full": null,
"area": "район Есиль",
"city_fias_id": "relation:3087155",
"city_kladr_id": null,
"city_with_type": "г Астана",
"city type": "r",
"city_type_full": "город",
"city": "Астана",
"city_area": null,
"city_district_fias_id": null,
"city_district_kladr_id": null,
"city_district_with_type": null,
"city_district_type": null,
"city_district_type_full": null,
"city_district": null,
"settlement_fias_id": null,
"settlement_kladr_id": null,
"settlement_with_type": null,
"settlement_type": null,
"settlement_type_full": null,
"settlement": null,
```

```
"street_fias_id": "way:178063506",
"street_kladr_id": null,
"street_with_type": "ул Ыкылас Дукенулы",
"street_type": "ул",
"street_type_full": "улица",
"street": "Ыкылас Дукенулы",
"stead_fias_id": null,
"stead_cadnum": null,
"stead type": null,
"stead_type_full": null,
"stead": null,
"house fias id": "node:4938899243",
"house_kladr_id": null,
"house_cadnum": null,
"house flat count": null,
"house type": "д",
"house_type_full": "дом",
"house": "23",
"block_type": null,
"block_type_full": null,
"block": null,
"entrance": null,
"floor": null,
"flat_fias_id": null,
"flat_cadnum": null,
"flat_type": null,
"flat_type_full": null,
"flat": null,
"flat_area": null,
```

```
"square_meter_price": null,
"flat_price": null,
"room_fias_id": null,
"room_cadnum": null,
"room_type": null,
"room_type_full": null,
"room": null,
"postal_box": null,
"fias id": "node:4938899243",
"fias_code": null,
"fias_level": "-1",
"fias_actuality_state": "0",
"kladr_id": null,
"geoname_id": null,
"capital_marker": "0",
"okato": null.
"oktmo": null,
"tax_office": null,
"tax_office_legal": null,
"timezone": null,
"geo_lat": "51.1802947",
"geo_lon": "71.4274406",
"beltway_hit": null,
"beltway_distance": null,
"metro": null,
"divisions": null,
"qc_geo": "0",
"qc_complete": null,
"qc_house": null,
```

```
"history_values": null,
        "unparsed_parts": null,
        "source": null,
        "qc": null
      }
    },
      "value": "Казахстан, г Астана, район Есиль, ул Шакена
Айманова, д 20",
      "unrestricted_value": "010000, Казахстан, г Астана, район Есиль,
ул Шакена Айманова, д 20",
      "data": {
        "postal_code": "010000",
        "country": "Казахстан",
        "country_iso_code": "KZ",
        "federal_district": null,
        "region fias id": "relation:3087155",
        "region_kladr_id": null,
        "region_iso_code": "KZ-AST",
        "region_with_type": "г Астана",
        "region_type": "Γ",
        "region_type_full": "город",
        "region": "Астана",
        "area_fias_id": "relation:3479876",
        "area_kladr_id": null,
        "area with type": "район Есиль",
        "area type": null,
        "area_type_full": null,
        "area": "район Есиль",
```

```
"city_fias_id": "relation:3087155",
"city_kladr_id": null,
"city_with_type": "г Астана",
"city_type": "г",
"city_type_full": "город",
"citv": "Астана",
"city_area": null,
"city_district_fias_id": null,
"city district kladr id": null,
"city_district_with_type": null,
"city_district_type": null,
"city_district_type_full": null,
"city_district": null,
"settlement_fias_id": null,
"settlement kladr id": null,
"settlement with type": null,
"settlement_type": null,
"settlement_type_full": null,
"settlement": null,
"street_fias_id": "way:25547411",
"street_kladr_id": null,
"street_with_type": "ул Шакена Айманова",
"street_type": "ул",
"street_type_full": "улица",
"street": "Шакена Айманова",
"stead_fias_id": null,
"stead_cadnum": null,
"stead type": null,
"stead_type_full": null,
```

```
"stead": null,
"house_fias_id": "way:240440924",
"house_kladr_id": null,
"house_cadnum": null,
"house_flat_count": null,
"house_type": "д",
"house_type_full": "дом",
"house": "20",
"block_type": null,
"block_type_full": null,
"block": null,
"entrance": null,
"floor": null,
"flat_fias_id": null,
"flat_cadnum": null,
"flat_type": null,
"flat_type_full": null,
"flat": null,
"flat_area": null,
"square_meter_price": null,
"flat_price": null,
"room_fias_id": null,
"room_cadnum": null,
"room_type": null,
"room_type_full": null,
"room": null,
"postal_box": null,
"fias id": "way:240440924",
"fias code": null,
```

```
"fias_level": "-1",
         "fias_actuality_state": "0",
         "kladr_id": null,
         "geoname_id": null,
         "capital_marker": "0",
         "okato": null,
         "oktmo": null,
         "tax_office": null,
         "tax_office_legal": null,
         "timezone": null,
         "geo_lat": "51.1806402",
         "geo_lon": "71.4288214",
         "beltway_hit": null,
         "beltway_distance": null,
         "metro": null,
         "divisions": null,
         "qc_geo": "0",
         "qc_complete": null,
         "qc_house": null,
         "history_values": null,
         "unparsed_parts": null,
         "source": null,
         "qc": null
      }
    },
    {
       "value": "Казахстан, г Астана, район Есиль, ул Шакена
Айманова, д 13/1",
```

```
"unrestricted_value": "010000, Казахстан, г Астана, район Есиль,
ул Шакена Айманова, д 13/1",
      "data": {
         "postal_code": "010000",
         "country": "Казахстан",
         "country_iso_code": "KZ",
         "federal_district": null,
         "region fias id": "relation:3087155",
         "region_kladr_id": null,
         "region_iso_code": "KZ-AST",
         "region with type": "г Астана",
         "region type": "Γ",
         "region_type_full": "город",
         "region": "Астана",
         "area_fias_id": "relation:3479876",
         "area_kladr_id": null,
         "area_with_type": "район Есиль",
         "area type": null,
         "area_type_full": null,
         "area": "район Есиль",
         "city_fias_id": "relation:3087155",
         "city_kladr_id": null,
         "city_with_type": "г Астана",
         "city type": "r",
         "city_type_full": "город",
         "city": "Астана",
         "city area": null,
         "city_district_fias_id": null,
```

"city_district_kladr_id": null,

```
"city_district_with_type": null,
"city_district_type": null,
"city_district_type_full": null,
"city_district": null,
"settlement_fias_id": null,
"settlement_kladr_id": null,
"settlement_with_type": null,
"settlement_type": null,
"settlement type full": null,
"settlement": null,
"street_fias_id": "way:25547411",
"street_kladr_id": null,
"street_with_type": "ул Шакена Айманова",
"street_type": "ул",
"street_type_full": "улица",
"street": "Шакена Айманова",
"stead_fias_id": null,
"stead_cadnum": null,
"stead_type": null,
"stead_type_full": null,
"stead": null,
"house_fias_id": "way:500315700",
"house_kladr_id": null,
"house_cadnum": null,
"house_flat_count": null,
"house_type": "д",
"house_type_full": "дом",
"house": "13/1",
"block_type": null,
```

```
"block_type_full": null,
"block": null,
"entrance": null,
"floor": null,
"flat_fias_id": null,
"flat_cadnum": null,
"flat_type": null,
"flat_type_full": null,
"flat": null,
"flat_area": null,
"square_meter_price": null,
"flat_price": null,
"room fias id": null,
"room_cadnum": null,
"room_type": null,
"room_type_full": null,
"room": null,
"postal_box": null,
"fias_id": "way:500315700",
"fias_code": null,
"fias_level": "-1",
"fias_actuality_state": "0",
"kladr_id": null,
"geoname_id": null,
"capital_marker": "0",
"okato": null,
"oktmo": null,
"tax_office": null,
"tax_office_legal": null,
```

```
"geo_lat": "51.1819012",
         "geo_lon": "71.4278117",
         "beltway_hit": null,
         "beltway_distance": null,
         "metro": null,
         "divisions": null,
         "qc_geo": "0",
         "qc_complete": null,
         "qc_house": null,
         "history_values": null,
         "unparsed_parts": null,
         "source": null,
         "qc": null
      }
    },
    {
      "value": "Казахстан, г Астана, район Есиль, ул Шакена
Айманова, д 13",
      "unrestricted_value": "010000, Казахстан, г Астана, район Есиль,
ул Шакена Айманова, д 13",
      "data": {
         "postal_code": "010000",
         "country": "Казахстан",
         "country_iso_code": "KZ",
         "federal_district": null,
         "region_fias_id": "relation:3087155",
         "region_kladr_id": null,
         "region_iso_code": "KZ-AST",
```

"timezone": null,

```
"region_with_type": "г Астана",
"region_type": "Γ",
"region_type_full": "город",
"region": "Астана",
"area_fias_id": "relation:3479876",
"area_kladr_id": null,
"area_with_type": "район Есиль",
"area_type": null,
"area type full": null,
"area": "район Есиль",
"city_fias_id": "relation:3087155",
"city_kladr_id": null,
"city_with_type": "г Астана",
"city type": "r",
"city_type_full": "город",
"city": "Астана",
"city_area": null,
"city_district_fias_id": null,
"city_district_kladr_id": null,
"city_district_with_type": null,
"city_district_type": null,
"city_district_type_full": null,
"city_district": null,
"settlement_fias_id": null,
"settlement_kladr_id": null,
"settlement_with_type": null,
"settlement_type": null,
"settlement_type_full": null,
"settlement": null,
```

```
"street_fias_id": "way:25547411",
"street_kladr_id": null,
"street_with_type": "ул Шакена Айманова",
"street_type": "ул",
"street_type_full": "улица",
"street": "Шакена Айманова",
"stead_fias_id": null,
"stead_cadnum": null,
"stead type": null,
"stead_type_full": null,
"stead": null,
"house_fias_id": "way:500315702",
"house_kladr_id": null,
"house_cadnum": null,
"house flat count": null,
"house type": "д",
"house_type_full": "дом",
"house": "13",
"block_type": null,
"block_type_full": null,
"block": null,
"entrance": null,
"floor": null,
"flat_fias_id": null,
"flat_cadnum": null,
"flat_type": null,
"flat_type_full": null,
"flat": null,
"flat_area": null,
```

```
"square_meter_price": null,
"flat_price": null,
"room_fias_id": null,
"room_cadnum": null,
"room_type": null,
"room_type_full": null,
"room": null,
"postal_box": null,
"fias_id": "way:500315702",
"fias_code": null,
"fias_level": "-1",
"fias_actuality_state": "0",
"kladr_id": null,
"geoname_id": null,
"capital_marker": "0",
"okato": null.
"oktmo": null,
"tax_office": null,
"tax_office_legal": null,
"timezone": null,
"geo_lat": "51.1818862",
"geo_lon": "71.4272291",
"beltway_hit": null,
"beltway_distance": null,
"metro": null,
"divisions": null,
"qc_geo": "0",
"qc_complete": null,
"qc_house": null,
```

```
"history_values": null,
        "unparsed_parts": null,
        "source": null,
        "qc": null
      }
    },
    {
      "value": "Казахстан, г Астана, район Есиль, ул Ыкылас
Дукенулы, д 21/1",
      "unrestricted_value": "010000, Казахстан, г Астана, район Есиль,
ул Ыкылас Дукенулы, д 21/1",
      "data": {
        "postal_code": "010000",
        "country": "Казахстан",
        "country_iso_code": "KZ",
         "federal_district": null,
        "region fias id": "relation:3087155",
        "region_kladr_id": null,
        "region_iso_code": "KZ-AST",
        "region_with_type": "г Астана",
        "region_type": "Γ",
        "region_type_full": "город",
        "region": "Астана",
        "area_fias_id": "relation:3479876",
        "area_kladr_id": null,
        "area with type": "район Есиль",
        "area type": null,
        "area_type_full": null,
         "area": "район Есиль",
```

```
"city_fias_id": "relation:3087155",
"city_kladr_id": null,
"city_with_type": "г Астана",
"city_type": "г",
"city_type_full": "город",
"citv": "Астана",
"city area": null,
"city_district_fias_id": null,
"city district kladr id": null,
"city_district_with_type": null,
"city_district_type": null,
"city_district_type_full": null,
"city_district": null,
"settlement_fias_id": null,
"settlement kladr id": null,
"settlement with type": null,
"settlement_type": null,
"settlement_type_full": null,
"settlement": null,
"street_fias_id": "way:178063506",
"street_kladr_id": null,
"street_with_type": "ул Ыкылас Дукенулы",
"street_type": "ул",
"street_type_full": "улица",
"street": "Ыкылас Дукенулы",
"stead_fias_id": null,
"stead_cadnum": null,
"stead type": null,
"stead_type_full": null,
```

```
"stead": null,
"house_fias_id": "node:4286104293",
"house_kladr_id": null,
"house_cadnum": null,
"house_flat_count": null,
"house_type": "д",
"house_type_full": "дом",
"house": "21/1",
"block_type": null,
"block_type_full": null,
"block": null,
"entrance": null,
"floor": null,
"flat_fias_id": null,
"flat_cadnum": null,
"flat_type": null,
"flat_type_full": null,
"flat": null,
"flat_area": null,
"square_meter_price": null,
"flat_price": null,
"room_fias_id": null,
"room_cadnum": null,
"room_type": null,
"room_type_full": null,
"room": null,
"postal_box": null,
"fias_id": "node:4286104293",
"fias code": null,
```

```
"fias_actuality_state": "0",
         "kladr_id": null,
         "geoname_id": null,
         "capital_marker": "0",
         "okato": null,
         "oktmo": null,
         "tax_office": null,
         "tax_office_legal": null,
         "timezone": null,
         "geo_lat": "51.1809361",
         "geo_lon": "71.4264144",
         "beltway_hit": null,
         "beltway_distance": null,
         "metro": null,
         "divisions": null,
         "qc_geo": "0",
         "qc_complete": null,
         "qc_house": null,
         "history_values": null,
         "unparsed_parts": null,
         "source": null,
         "qc": null
      }
    }
  ]
}
```

"fias_level": "-1",