

Programming Exercise Frontend - 4

Sightseeing Tours By Sixt Chauffeured Services

As Sixt Ride we would like to offer our customers in Munich luxury car sightseeing tours they can book for a certain time (duration).

We have several possible user pickup locations:

1. the famous Munich Hofbräuhaus (address: Hofbräuhaus München, Platzl, Munich, Germany; Google Place ID: ChIJxfSz4t1nkcRLxq9ze1wwak)
2. just in the city center: the Stachus (address: Stachus, Munich, Germany; Place ID: EhtLYXJsc3BsLiwgTcO8bmNoZW4sIEdlcm1hbnkiLiosChQKEgkfRGon93WeRxEvZKuqllsjsxIUChIJJ8yNql7fnUcRAKU5CaQIHQU)
3. the Olympic Tower (address: Spiridon-Louis-Ring, Munich, Germany; Place ID: ChIJU-Q6JoF2nkcRdQApBoHvU8s)
4. the beautiful English Garden (address: Englischer Garten, Munich, Germany; Place ID: ChIJayv4IZd1nkcR0e_vfGLfm8k)
5. the iconic Allianz Arena (address: Allianz Arena, Werner-Heisenberg-Allee, Munich, Germany; Place ID: ChIJHyWKEoVznkcRI8QyjkJgTe0)
6. the impressive Nymphenburg Castle (address: Schloss Nymphenburg, Schloß Nymphenburg, Munich, Germany; Place ID: ChIJLWiif8x3nkcRZm0epRZWTCc)

Exercise

Please implement a small application in which our customers can:

- select one of the given Pickup locations
- or search for his desired Pickup location using our locations autocomplete endpoint (this step is optional)
- enter the Date and Time when they want to do the sightseeing
- select the duration (how long they want to do sightseeing, e.g. 2,3 or 4 hours)

After having specified those parameters, we would like to display our Sixt Limousine service first class and van offers to our customers.

Additional Hints

Framework

You should use React and related frameworks to solve this problem.

Locations Endpoint

Request type: **GET**

Endpoint: <https://www.mydriver.com/api/v5/locations/autocomplete?searchString=muc>

Response Interface

```
[
  {
    "id": "number",
    "label": "string",
    "address": "string",
    "category": "string",
    "placeId": "string",
    "iataCode": "string",
    "city": "string",
    "countryCode": "string"
  }
]
```

Response Example

```
[
  {
    "id": 783,
    "label": "(MUC) Munich Airport",
    "address": "85356 München Flughafen, Munich",
    "category": "airport",
    "placeId":
      "EjdUZXJtaW5hbHN0cmHDn2UgV2VzdCwgODUzNTYgTc08bmNoZW4tRmx1Z2hhZmVuLCBHZXXJtYW55Ii4qLAoUChIJXWA1N30TnkcR_SQ9ebFzDaA
      SFAoSCRGTmVBiE55HERfhkrIzgT7m",
    "iataCode": "MUC",
    "city": "Germany Intercity",
    "countryCode": "DE"
  }
]
```

Offers Endpoint

Request type: **POST**

Endpoint: <https://www.mydriver.com/api/v5/offers>

Request Interface

```
{
  "originPlaceId": string,
  "selectedStartDate": string,
  "duration": string,
  "type": string
}
```

Request Body Example

```
{
  "originPlaceId": "ChIJRW3aI1kTnkcRS89W0oV6xeM",
  "selectedStartDate": "2021-11-22T12:45:00+02:00",
  "duration": "120",
  "type": "DURATION"
}
```

Response Interface

```
{
  "reservationAmounts": {
    "finalRidePriceNet": "number",
    "finalRidePriceGross": "number"
  },
  "vat": "number",
  "currency": "string",
  "cancellationPolicy": {
    "id": "number",
    "name": "string",
    "rideType": "string",
    "parameters": {
      "additionalProp1": {}
    }
  },
  "vehicleTypeId": "number",
  "vehicleTypeName": "string",
  "numberOfPassengers": "number",
  "numberOfBaggage": "number",
  "voucherCode": "string",
  "appliedPromotions": [
    {
      "promotionHeadline": "string",
      "promotionUsageMessage": "string",
      "promotionMarketingMessage": "string",
      "couponCode": "string",
      "promotionName": "string"
    }
  ],
  "distance": "number",
  "duration": "number",
  "companyId": "number",
  "reversed": "boolean",
  "isReturnRideAvailable": "boolean",
  "estimatedArrivalTime": "number",
  "offerIdentifier": "string",
  "onDemand": "boolean",
  "priceVary": "boolean",
  "imageType": "string",
  "fixed": "boolean",
  "provider": "string",
  "sixtCustomerNumber": "number",
  "group": "string",
  "isPreselected": "boolean"
}
```