

CMPE273-Fall15-Assignment3

Description

You will be implementing the second part of the assignment 2.

Part II - Trip Planner

The trip planner is a feature that will take a set of locations from the database and will then check against [UBER's price estimates API](#) to suggest the best possible route in terms of costs and duration.

UBER Price Estimates Resource: GET /v1/estimates/price

You will be using UBER [Sandbox](#) environment for all API calls.

You need to implement these endpoints in order to take orchestrate between user and UBER services.

1. **POST** [/trips](#) # Plan a trip

Request:

```
{
  "starting_from_location_id": "999999",
  "location_ids": [ "10000", "10001", "20004", "30003" ]
}
```

Response: HTTP 201

```
{
  "id" : "1122",
  "status" : "planning",
  "starting_from_location_id": "999999",
  "best_route_location_ids" : [ "30003", "10001", "10000", "20004" ],
  "total_uber_costs" : 125,
  "total_uber_duration" : 640,
  "total_distance" : 25.05
}
```

2. **GET** [/trips/{trip_id}](#) # Check the trip details and status

Request: GET [/trips/1122](#)

Response:

```
{
  "id" : "1122",
  "status" : "planning",
  "starting_from_location_id": "999999",
  "best_route_location_ids" : [ "30003", "10001", "10000", "20004" ],
  "total_uber_costs" : 125,
  "total_uber_duration" : 640,
  "total_distance" : 25.05
}
```

3. **PUT** `/trips/{trip_id}/request` # Start the trip by requesting UBER for the first destination. You will call [UBER request API](#) to request a car from starting point to the next destination.

UBER Request API: `PUT /v1/sandbox/requests/{request_id}`

Once a destination is reached, the subsequent call the API will request a car for the next destination.

Request: `PUT /trips/1122/request`

Response:

```
{
  "id" : "1122",
  "status" : "requesting",
  "starting_from_location_id": "999999",
  "next_destination_location_id": "30003",
  "best_route_location_ids" : [ "30003", "10001", "10000", "20004" ],
  "total_uber_costs" : 125,
  "total_uber_duration" : 640,
  "total_distance" : 25.05,
  "uber_wait_time_eta" : 5
}
```