Bumpy API

This is the amazing Bumpy API that powers both our web interface and the Android app.
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Version: 1.2.0
BasePath:/v1

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Access

Methods

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Device

GET /device/getLongDeviceUUID

Up

Get the long device UUID from the short device UUID (**getLongDeviceUuid**)

Query parameters

shortDeviceUUID (required)
Query Parameter —

Return type
UUID

Example data
Content-Type: application/json

```
"046b6c7f-0b8a-43b9-b35d-6489e6daee91"
```

Produces

This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- `application/json`

Responses
200
Successful operation UUID
404
Device UUID not found ApiResponse
500
Unexpected exception ApiResponse

GET /device/getShortDeviceUUID

Up

Get the short device UUID from the long device UUID (**getShortDeviceUuid**)

Query parameters

deviceUUID (required)
Query Parameter — format: uuid

Return type
String

Example data
Content-Type: application/json

```
" "
```

Produces
This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- `application/json`

Responses
200
Successful operation String
500
Unexpected exception ApiResponse

MapData

GET /mapData/getBumpyIssuePoints

Up

Get the autocomputed points (**getBumpyIssuePoints**)

Query parameters

bottomLeftLat (required)
Query Parameter — The bottom left coordinate of the corner of the screen

bottomLeftLon (required)
Query Parameter — The bottom left coordinate of the corner of the screen

topRightLat (required)
Query Parameter — The top right coordinate of the corner of the screen

topRightLon (required)
Query Parameter — The top right coordinate of the corner of the screen

Return type
array[BumpyPoint]

Example data
Content-Type: application/json

```
[ {
  "bumpyScore" : 5.962133916683182,
  "lon" : 26.384633649053015,
  "lat" : 54.24710564763363
}, {
  "bumpyScore" : 5.962133916683182,
  "lon" : 26.384633649053015,
  "lat" : 54.24710564763363
} ]
```

Produces
This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- `application/json`

Responses
200
Successful operation
500
Unexpected exception ApiResponse

GET /mapData/getRoadQualitySegments

Up

Get the paths composed of segments to display the heatmap (**getRoadQualitySegments**)

WARNING this measure is derived from vibration

Query parameters

bottomLeftLat (required)
Query Parameter — The bottom left coordinate of the corner of the screen

bottomLeftLon (required)
Query Parameter — The bottom left coordinate of the corner of the screen

topRightLat (required)
Query Parameter — The top right coordinate of the corner of the screen

topRightLon (required)
Query Parameter — The top right coordinate of the corner of the screen

Return type
array[Track]

Example data
Content-Type: application/json

```
[ {
  "segments" : [ {
    "startLat" : 7.2074537141491035,
    "endLat" : 13.192316824526507,
    "startLon" : 108.49421129526726,
    "endLon" : 107.31841050029728,
```

```
    "qualityScore" : 5.637376656633329
  }, {
    "startLat" : 7.2074537141491035,
    "endLat" : 13.192316824526507,
    "startLon" : 108.49421129526726,
    "endLon" : 107.31841050029728,
    "qualityScore" : 5.637376656633329
  } ]
}, {
  "segments" : [ {
    "startLat" : 7.2074537141491035,
    "endLat" : 13.192316824526507,
    "startLon" : 108.49421129526726,
    "endLon" : 107.31841050029728,
    "qualityScore" : 5.637376656633329
  }, {
    "startLat" : 7.2074537141491035,
    "endLat" : 13.192316824526507,
    "startLon" : 108.49421129526726,
    "endLon" : 107.31841050029728,
    "qualityScore" : 5.637376656633329
  } ]
} ]
```


Produces
This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- `application/json`

Responses
200
Successful operation
500
Unexpected exception ApiResponse

Trip

DELETE /trip/deleteTrip

Up

Deletes a trip. (**deleteTrip**)

Query parameters

tripUUID (required)
Query Parameter — format: uuid

Return type
ApiResponse

Example data
Content-Type: application/json


```
{
  "code" : 0,
  "type" : "type",
  "message" : "message"
}
```

Produces
This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- `application/json`

Responses
200
Deletion successful ApiResponse
500
Unexpected exception ApiResponse

GET /trip/getMotionFile

Up

Gets a csv motion file. (**getMotionFile**)

Query parameters

tripUUID (required)
Query Parameter — format: uuid

Return type
String

Example data
Content-Type: application/json

```
""
```

Produces
This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- `text/csv`
- `application/json`

Responses
200
Upload successful String
404
Trip not found ApiResponse
500
Unexpected exception ApiResponse

GET /trip/getTripByTripUUID

Up

Gets a trip given a tripUUID (**getTripByTripUuid**)

Query parameters

tripUUID (required)
Query Parameter — format: uuid

Return type
FullProcessedTrip

Example data
Content-Type: application/json

```
{
  "elevation" : {
    "minElevation" : 5.637376656633329,
    "maxElevation" : 5.962133916683182,
    "avgElevation" : 2.3021358869347655
  },
  "bumpyPoints" : [ {
    "bumpyScore" : 5.962133916683182,
    "lon" : 26.384633649053015,
    "lat" : 54.24710564763363
  }, {
    "bumpyScore" : 5.962133916683182,
    "lon" : 26.384633649053015,
    "lat" : 54.24710564763363
  } ],
  "distance" : 0.08008281904610115,
  "endTS" : { },
  "gnssData" : [ {
    "timeTS" : { },
    "precision" : 5.962133916683182,
    "lon" : 26.384633649053015,
    "lat" : 54.24710564763363,
    "speed" : 2.3021358869347655,
    "ele" : 5.637376656633329
  }, {
    "timeTS" : { },
    "precision" : 5.962133916683182,
    "lon" : 26.384633649053015,
    "lat" : 54.24710564763363,
    "speed" : 2.3021358869347655,
    "ele" : 5.637376656633329
  } ],
  "startTS" : { },
  "vibration" : {
    "minVibration" : 1.4658129805029452,
    "maxVibration" : 6.027456183070403,
    "avgVibration" : 5.962133916683182
  },
  "tripUUID" : "046b6c7f-0b8a-43b9-b35d-6489e6daee91",
  "deviceUUID" : "046b6c7f-0b8a-43b9-b35d-6489e6daee91",
  "speed" : {
    "maxSpeed" : 0.6027456183070403,
    "avgSpeed" : 0.14658129805029452
  }
}
```


Produces

This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- `application/json`

Responses

200
Successful operation FullProcessedTrip
404
Trip not found ApiResponse
500
Unexpected exception ApiResponse

GET /trip/getTripsByDeviceUUID

Up

Gets all the trips given a deviceUUID (**getTripsByDeviceUuid**)

Query parameters

deviceUUID (required)
Query Parameter — format: uuid

Return type
array[ProcessedTrip]

Example data
Content-Type: application/json


```
[ {
  "elevation" : {
    "minElevation" : 5.637376656633329,
    "maxElevation" : 5.962133916683182,
    "avgElevation" : 2.3021358869347655
  },
  "distance" : 0.08008281904610115,
  "bumpyPointsCount" : 0,
  "endTS" : { },
  "startTS" : { },
  "vibration" : {
    "minVibration" : 1.4658129805029452,
    "maxVibration" : 6.027456183070403,
    "avgVibration" : 5.962133916683182
  },
  "tripUUID" : "046b6c7f-0b8a-43b9-b35d-6489e6daee91",
  "deviceUUID" : "046b6c7f-0b8a-43b9-b35d-6489e6daee91",
  "speed" : {
    "maxSpeed" : 0.6027456183070403,
    "avgSpeed" : 0.14658129805029452
  }
}, {
  "elevation" : {
    "minElevation" : 5.637376656633329,
    "maxElevation" : 5.962133916683182,
    "avgElevation" : 2.3021358869347655
  },
  "distance" : 0.08008281904610115,
  "bumpyPointsCount" : 0,
  "endTS" : { },
  "startTS" : { },
  "vibration" : {
    "minVibration" : 1.4658129805029452,
    "maxVibration" : 6.027456183070403,
    "avgVibration" : 5.962133916683182
  },
  "tripUUID" : "046b6c7f-0b8a-43b9-b35d-6489e6daee91",
  "deviceUUID" : "046b6c7f-0b8a-43b9-b35d-6489e6daee91",
  "speed" : {
    "maxSpeed" : 0.6027456183070403,
    "avgSpeed" : 0.14658129805029452
  }
} ]
```


Produces

This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- `application/json`

Responses
200
Successful operation
500
Unexpected exception ApiResponse

POST /trip/insertNewTrip

Up

Insert a new bike trip and start the background processing. (**insertNewTrip**)

Consumes
This API call consumes the following media types via the Content-Type request header:

- `application/json`

Request body

body Trip (required)
Body Parameter —

Return type
ApiResponse

Example data
Content-Type: application/json

```
{
  "code" : 0,
  "type" : "type",
  "message" : "message"
}
```

Produces
This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- `application/json`

Responses
200
Validation successful ApiResponse
405
Validation exception ApiResponse
500
Unexpected exception ApiResponse

POST /trip/uploadMotionFile

Up

Uploads a csv motion file, only a few checks are performed. (**uploadMotionFile**)

Consumes
This API call consumes the following media types via the Content-Type request header:

- `multipart/form-data`

Form parameters

file (required)
Form Parameter — format: binary

tripUUID (required)
Form Parameter — format: uuid

Return type
ApiResponse

Example data
Content-Type: application/json

```
{
  "code" : 0,
  "type" : "type",
  "message" : "message"
}
```

Produces
This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- `application/json`

Responses
200
Upload successful ApiResponse
405
Validation exception ApiResponse
500
Unexpected exception ApiResponse

Models

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ApiResponse Up

code (optional)
Integer

type (optional)
String

message (optional)

String

BumpyPoint

[Up](#)

lat (optional)
BigDecimal

lon (optional)
BigDecimal

bumpyScore (optional)
BigDecimal

FullProcessedTrip

[Up](#)

deviceUUID (optional)
UUID format: uuid

tripUUID (optional)
UUID format: uuid

startTS (optional)
Date format: date-time

endTS (optional)
Date format: date-time

distance (optional)
BigDecimal Expressed in meters

speed (optional)
ProcessedTrip_speed

elevation (optional)
ProcessedTrip_elevation

vibration (optional)
ProcessedTrip_vibration

bumpyPoints (optional)
array[BumpyPoint]

gnssData (optional)
array[Trip_gnssData]

ProcessedTrip

[Up](#)

deviceUUID (optional)
UUID format: uuid

tripUUID (optional)
UUID format: uuid

startTS (optional)
Date format: date-time

endTS (optional)
Date format: date-time

distance (optional)
BigDecimal Expressed in meters

speed (optional)
ProcessedTrip_speed

elevation (optional)

ProcessedTrip_elevation

vibration (optional)
ProcessedTrip_vibration

bumpyPointsCount (optional)
Integer

ProcessedTrip_elevation

Up

maxElevation (optional)
BigDecimal Expressed in meters

minElevation (optional)
BigDecimal Expressed in meters

avgElevation (optional)
BigDecimal Expressed in meters

ProcessedTrip_speed

Up

maxSpeed (optional)
BigDecimal Expressed in meters per second

avgSpeed (optional)
BigDecimal Expressed in meters per second

ProcessedTrip_vibration

Up

maxVibration (optional)
BigDecimal

minVibration (optional)
BigDecimal

avgVibration (optional)
BigDecimal

Track

Up

segments (optional)
array[Track_segments]

Track_segments

Up

startLat (optional)
BigDecimal

startLon (optional)
BigDecimal

endLat (optional)
BigDecimal

endLon (optional)
BigDecimal

qualityScore (optional)
BigDecimal

Trip

[Up](#)

deviceUUID (optional)
UUID format: uuid

tripUUID (optional)
UUID format: uuid

startTS (optional)
Date format: date-time

endTS (optional)
Date format: date-time

gnssData (optional)
array[Trip_gnssData]

Trip_gnssData

[Up](#)

timeTS (optional)
Date format: date-time

lat (optional)
BigDecimal

lon (optional)
BigDecimal

precision (optional)
BigDecimal Expressed in meters

ele (optional)
BigDecimal Expressed in meters

speed (optional)
BigDecimal Expressed in meters per second

body

[Up](#)

file (optional)
byte[] format: binary

tripUUID (optional)
UUID format: uuid