# Manual

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# Contents

1	Running & using the app		
	1.1	Starting the app	2
	1.2	Usage	2
2	API calls		
	2.1	Provinces	3
	2.2	Lines	4
	2.3	Routes & passings	5
3	Design choices		6
4	Too	ls used	7

## 1 Running & using the app

## 1.1 Starting the app

In order to run the app, the user needs to execute the run.sh script on Mac/Linux or the run.bat script on Windows.

## 1.2 Usage

### 2 API calls

#### 2.1 Provinces

```
{"data":{
    provinces":[
        {"entiteitcode":"A"
         "entiteitnummer":"1",
           ""rel":"detail","url":"https://api.delijn.be/DLKernOpenData/api/v1/entiteiten/1"},
{"rel":"haltes","url":"https://api.delijn.be/DLKernOpenData/api/v1/entiteiten/1/haltes"},
{"rel":"lijnen","url":"https://api.delijn.be/DLKernOpenData/api/v1/entiteiten/1/lijnen"},
           {"rel": gemeenten", "url": "https://api.delijn.be/DLKernOpenData/api/v1/entiteiten/1/gemeenten
        "omschrijving": "Antwerpen"},
{"entiteitcode": "0",
"entiteitnummer": "2",
        "omschrijving":"Oost-Vlaanderen"},
{"entiteitcode":"B",
          entiteitnummer": "3",
        "}],
        "omschrijving":"Vlaams-Brabant"},
{"entiteitcode":"L",
         "entiteitnummer":"4",
"links":[
           {"rel":"detail","url":"https://api.delijn.be/DLKernOpenData/api/v1/entiteiten/4"},
{"rel":"haltes","url":"https://api.delijn.be/DLKernOpenData/api/v1/entiteiten/4/haltes"},
{"rel":"lijnen","url":"https://api.delijn.be/DLKernOpenData/api/v1/entiteiten/4/lijnen"},
           {"rel":"gemeenten","url":"https://api.delijn.be/DLKernOpenData/api/v1/entiteiten/4/gemeenten
"}],
        "omschrijving": "Limburg"},
        {"entiteitcode":"W",
"entiteitnummer":"5",
         "links":[
           "rel":"detail","url":"https://api.delijn.be/DLKernOpenData/api/v1/entiteiten/5"},
{"rel":"haltes","url":"https://api.delijn.be/DLKernOpenData/api/v1/entiteiten/5/haltes"},
{"rel":"lijnen","url":"https://api.delijn.be/DLKernOpenData/api/v1/entiteiten/5/lijnen"},
           {"rel": gemeenten", "url": "https://api.delijn.be/DLKernOpenData/api/v1/entiteiten/5/gemeenten
         "omschrijving":"West-Vlaanderen"}
     1
"status": "success"
```

#### API call:

/get\_provinces

Return value: a JSON format response object as shown above.

#### 2.2 Lines

#### API call:

/get\_lines/<province>

Return value: a JSON format response object as (shortened) shown above. This object describes the available lines for the given province.

### 2.3 Routes & passings

#### API calls:

```
/get_timetable//<line>/to/
/get_timetable//<line>/from/
```

Return value: a JSON format response object as (shortened) shown above. This object describes the stops on the line and provides passing times, weather information and coordinates for the route that will be followed.

3 Design choices

## 4 Tools used

- $\bullet\,$  Flask as the main framework
- $\bullet$  Python requests module to reduce the lines of code needed to perform an API call
- $\bullet$  JavaScript & LeafLet. js for all things map-related