
Avgangstider

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1.1 API Documentation

1.1.1 Using the API in other projects

Avgangstider requires at least Python 3.7. I recommend using [pyenv](#) for installing and managing different Python versions.

Avgangstider is available on PyPi, so inside the environment where you want Avgangstider, all you have to do is:

```
pip install avgangstider
```

1.1.2 Functions and classes

class avgangstider.**Departure**(*line_id: str, line_name: str, destination: str, platform: str, departure_datetime: datetime.datetime, bg_color: str, fg_color: str*)

A data class to hold information about a departure

property departure_string: str

The departure time as a string relative to now()

class avgangstider.**Situation**(*line_id: str, line_name: str, transport_mode: str, bg_color: str, fg_color: str, summary: str*)

A data class to hold information about a situation

avgangstider.**get_departures**(*stop_id: str, line_ids: Optional[List[str]] = None, platforms: Optional[List[str]] = None, max_departures: int = 10*) → List[avgangstider.classes.Departure]

Query the Entur API and return a list of matching departures

Parameters

- **stop_id** – The stop_id you want departures for
- **line_ids** – An optional list with line_ids
- **platforms** – An optional list with platform_ids
- **max_departures** – The maximum number of departures to query for

Returns A list of departures

avgangstider.**get_situations**(*line_ids: List[str], language: str = 'no'*) → List[avgangstider.classes.Situation]

Query the Entur API and return a list of relevant situations

Parameters

- **line_ids** – A list of strings with line_ids
- **language** – A language string: 'en' or 'no'

Returns A list of relevant situations for that line

1.2 Web-app Documentation

1.2.1 Finding a stop_id

- Look it up on the Stop-register
- Find it on a map

1.2.2 Arguments

1.3 Developing

1. Install `pyenv` with some plugins, especially `pyenv-virtualenv` and `pyenv-which-ext`. These extensions will be installed automatically if you use the `pyenv-installer`
2. Install Poetry

1.3.1 Setting up your development environment

```
# Install Python 3.9 and make a new virtual environment
pyenv install 3.9.7
pyenv virtualenv 3.9.7 avgangstider

# Clone the repository
git clone git@github.com:marhoy/flask-entur-avgangstider.git

# Activate the virtual environment for this directory
cd flask-entur-avgangstider
pyenv local avgangstider 3.9.7

# Install all requirements (also for development)
poetry install
```

1.3.2 Start a debugging server

```
python src/avgangstider/flask_app.py
```

1.3.3 Run all tests and code checks

After having made changes: Make sure all tests are still OK, test coverage is still 100% and that flake8, mypy and isort are all happy:

```
tox

[...]
src/avgangstider/utils.py . [ 6%]
tests/test_classes.py . [ 12%]
tests/test_entur_api.py ... [ 31%]
tests/test_entur_query.py ... [ 50%]
tests/test_flask_app.py ..... [ 93%]
tests/test_utils.py . [100%]

----- coverage: platform darwin, python 3.7.4-final-0 -----
Name      Stmts   Miss  Cover   Missing
-----
TOTAL      197      0   100%

7 files skipped due to complete coverage.

===== 16 passed in 4.39s =====

[...]
lint run-test: commands[0] | poetry run flake8 src tests
lint run-test: commands[1] | poetry run isort --check-only src tests
lint run-test: commands[2] | poetry run mypy src

[...]

----- summary -----
py37: commands succeeded
py38: commands succeeded
py39: commands succeeded
lint: commands succeeded
docs: commands succeeded
congratulations :)
```

1.3.4 Build new docker image

If you want to build your own docker image:

```
docker build -t avgangstider .
docker run -d -p 5000:5000 avgangstider
```


SCREENSHOTS

This is what you would see in your browser for Oslo S:

Linje	Destinasjon	Avgang
L2	Stabekk	nå
L21	Moss	1 min
L13	Drammen	2 min
F2	Oslo Lufthavn	3 min
L21	Stabekk	4 min
L3	Hakadal	5 min
F1x	Stabekk	6 min
R11	Eidsvoll	7 min
50	Oslo S	8 min
50	Kristiansand	8 min

...or for Jernbanetorget:

Linje	Destinasjon	Avgang
3	Kolsås	nå
13	Bekkestua	nå
18	Ljabru	1 min
12	Majorstuen	2 min
85	Ulvøya via Malmøya	2 min
81	Fløysbonn	2 min
4	Vestli via Majorstuen	2 min
83	Jernbanetorget	2 min
3	Mortensrud	3 min
13	Storo-Grefsen st.	3 min
4: Buss for T-bane Helsfyr - Bergkrystallen etter ca. 23:30		

RUN FROM DOCKER CONTAINER

Avgangstider comes with a Docker container ready to run. In order to run your own server, just do:

```
docker run -d -p 5000:5000 marhoy/avgangstider
```

You can then access your own server at <http://localhost:5000/>

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