



# Flask Cheatsheet

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## Importing Flask

```
from flask import Flask
```

## Most used import functions

These are some of the most used import functions by flask developers

```
from flask import Flask, render_template, redirect, url_for, request
```

## Boilerplate code

This is the basic template or barebone structure of a Flask app

```
from flask import Flask

app = Flask(__name__)

@app.route("/")
def hello_world():
    return "<p>Hello, World!</p>"

app.run()
```

## Creating a route

This is to make different endpoints in our flask app.

```
@app.route("/")
```

## Setting Allowed methods

Used to specify which methods are allowed for a request. Allowing get and post requests on an endpoint.

```
methods = ['GET', 'POST']
```

## Re-run while coding

This is used to automatically rerun the program when the file is saved.

```
app.run(debug=True)
```

## Change host

This is used to change the host.

```
app.run(host='0.0.0.0')
```

## Change port

This is used to change the port.

```
app.run(port=80)
```

## Importing SQLAlchemy

```
from flask_sqlalchemy import SQLAlchemy
```

## Database URI

This is the database's address.

```
SQLALCHEMY_DATABASE_URI = "sqlite:///mydatabase.db"
```

```
app.config['SQLALCHEMY_DATABASE_URI'] = 'mysql://username:password@localhost/db_name'
```

or

```
app.config['SQLALCHEMY_DATABASE_URI'] = 'sqlite:///test.db'
```

## Initialization

This is used to initialize SQLAlchemy.

```
db = SQLAlchemy(app)
```

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## Creating a Model

Class used to get data from the database and to send data to the database.

```
class TableName(db.Model):
    column_1 = db.Column(db.Integer, primary_key=True)
    column_2 = db.Column(db.String(80), nullable=False)
    column_3 = db.Column(db.String(12), nullable=False)
```

## Get all data - all() method

This is used to get all the data from the database.

```
data = ClassName.query.filter_by().all()
```

## Filtered data - first() method

This is used to get the first dataset from the list returned by the filter\_by function. You can get targetted data by this.

```
data = ClassName.query.filter_by().first()
```

## Send/add data to database

This is used to send/add data to the database.

```
data_to_send = ClassName(column_1=dataset1, column_2=dataset2, column_3=dataset3)
db.session.add(data_to_send)
db.session.commit()
```

## Delete data from the database

This is used to delete data from the database.

```
data_to_send = ClassName(column_1=dataset1, column_2=dataset2, column_3=dataset3)
db.session.delete(data_to_send)
db.session.commit()
```

## Request method

This is used to know what request is made (get/post).

```
request.method
```

## Render Template

This is used to pass and render an html file directly.

```
render_template("file.html")
```

## Solving FSADeprecationWarning

SQLALCHEMY\_TRACK\_MODIFICATIONS allows you to disable the modification tracking system using this line:

```
app.config['SQLALCHEMY_TRACK_MODIFICATIONS'] = False
```

## Creating Database files

This is used to create database files

```
from yourapplicationname import db
db.create_all()
exit()
```

## Method to return database items

This is used to return database items.

```
def __repr__(self) -> str:
    return f"{self.item}"
```

## Printing returned content from the method

This is used to print returned database items.

```
data = ClassNameWithMethod.query.all()
print(data)
```

## Flask Documentation

Visit the [Flask documentation here](#)

## Flask SQLAlchemy Documentation

Visit the [Flask SQLAlchemy documentation here](#)

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