Untitled

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1 Flask Tutorial

1.1 I.Set Up

1.1.1 I.1 Installation

\$ pip install Flask

\$ pip install -U Flask-SQLAlchemy

1.1.2 I.2 Create your first app

```
app.py—
from flask import Flask ,redirect

app=Flask(__name__)

@app.route('/')
def home():
    return "<h1>Hello worl</h1>"

@app.route('/items')
def items():
    return "Items list"

@app.route('/<name>')
def user(name):
    return f'{name} page'

if __name__ == '__main__':
#auto save
    app.run(debug=True)
```

1.1.3 I.3 Render template

-app.py— You should create a folder named templates then you can add some html files into it.

```
[]: from flask import Flask , render_template ,redirect

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

```
def home():
    return render_template('index.html')

@app.route('/items')
def items():
    return render_template('items.html')
```

1.2 II.Data Integration

1.2.1 I.1 Session: POST request

Create html file

-form.html designation

Quantity

Price

```
-app-
```

```
[]: from flask import Flask ,session, render_template ,redirect, request,url_for
     app.secret_key = b'_5#y2L"F4Q8z\n\xec]/'
     @app.route('/', methods=['GET', 'POST'])
     def home():
         if request.method == "POST":
             # session.permanent=True
             designation=request.form["designation"]
             quantity = request.form["Quantity"]
             price = request.form["Price"]
             session['designation'] =designation
             session['quantity'] =quantity
             session['price'] =price
             return redirect(url for('items'))
         return render_template('index.html')
     def items():
         if 'designation' in session:
             designation=session['designation']
             return render_template('items.html',designation=designation)
         return render_template('index.html')
```

-items.html

1.2.2 I.2 Creating Database

```
[]: app.config['SQLALCHEMY_DATABASE_URI']='sqlite:///sqlite3'
app.config['SQLALCHEMY_TRACK_MODIFICATIONS']= False
db=SQLAlchemy(app)

[]: class Items(db.Model):
    _id= db.Column("id", db.Integer,primary_key=True)
    designation = db.Column(db.String(100))
    quantity = db.Column(db.Integer)
    price=db.Column(db.Integer)
    # save a data
    def __init__(self, designation,quantity,price):
        self.designation=designation
        self.quantity=quantity
        self.price=price
```

1.2.3 I.2 SqlAlchemy queries

Create database

```
[]: db.create_all()
```

Getting item by it's desingation using filter

```
[]: item = Items.query.filter_by(desingation = desingation).first()
```

Get all items

```
[]: items=Items.query.all()
```

Updating an item

```
[]: update_item = Items.query.filter_by(designation=request.form["Update_item"]).

⇒first()

update_item.quantity = int(request.form["Update_Quantity"])
```

Delete Item

```
[]: Items.query.filter_by(designation=request.form["Delete_item"]).delete()
```

Save data and changes

```
[]: db.session.commit()
```

1.3 III.Integrating bootstrap,css file and js file

1.4 IV. Full project

 ${\it Check\ my\ github\ repo:\ https://github.com/oubia/Flask-tutorial}$

Good luck