App2: Flatmates’ Bill

To begin with:

# Design:

To begin with your OOP project, instead of writing code directly, we want to make a BLUEPRINT.

1. Make a simple design text to describe what our object will look like.
2. Extract all of the nouns in the description to understand the Objects we aim at.
3. Create empty class & method according to these nouns

Outside Packages:

# fpdf: # PDF generator tool

from fpdf import FPDF

pdf = FPDF ( orientation = ‘’, unit= ‘’, format= ‘’ ) # For more info. [CLICK ME!](http://www.fpdf.org/en/doc/__construct.htm)

# orientation -> ‘P’ for portrait, ‘L’ for landscape

# unit -> ‘pt’ for regular size

# format -> ‘A4’

pdf.add\_page() # create / add a new page

pdf.set\_font( family= ‘Times’ , size= ‘24’, style = ‘B’ ) # ‘B’ for Bold, more info. [CLICK ME!](http://www.fpdf.org/en/doc/setfont.htm)

pdf.cell( w=\*int , h=\*int , txt= ‘\*str ’, border= 0 or 1, ln = 1, align= ‘C’) # More info, [HERE!](http://fpdf.org/en/doc/cell.htm)

pdf.output( ‘XXX.pdf’ ) # To save this pdf file under your folder

# webbrowser: # Web opener tool

import webbrowser

import os

# After you generate a pdf file, you want to automatically view that file.

webbrowser.open(self.filename) # if you are on Windows OS

------------------------------------- OR ---------------------------------------------

path\_pdf = os.path.abspath(self.filename) # if you are on Mac OS

webbrowser.get('safari').open\_new\_tab(f'file:///{path\_pdf}')

# \*\* Extra: If you want the pdf generated in a particular folder. E.g. ‘files’

pdf.output(f"files/{self.filename}") # enter the folder name you wish to generate + /

os.chdir('files') # change the path of searching to local file

# filestack: # file URL generator tool

from filestack import Client # More info, [CLICK HERE](https://github.com/filestack/filestack-python)

client= Client( ‘ \* Your Filestack API key ’ )

# To get your api key, go to [dev.filestack.com](https://www.filestack.com/) and register your own account

# My api key = 'ArFQU9ogfQ5uoneGAZTHqz'

new\_filelink = client.upload(filepath=' \* filename \* ')

print(new\_filelink.url)

Extra:

# User Interface Type:

1. Command Line Interface (CLI) # running your program via terminal
2. Desktop Graphic User Interface (GUI) # via GUI program
3. Web Interface # via an online URL \*\* Easiest way

# OOP Principles:

1. OOP entities are open for extension but close for modification # if you want to add new features