```
from kivy.graphics import Color, RoundedRectangle
NoTransition
from Fil actualites screen import NewsFeedScreen
from Pronote screen import PronoteScreen
from Rappels screen import RappelsScreen
```

code calendar screen

```
import json
from kivy.app import App
```

```
from plyer import orientation
from parametres import *
from kivy.uix.label import Label
from kivy.uix.widget import Widget
from kivy.core.window import Window
from kivy.uix.screenmanager import Screen
from kivy.uix.gridlayout import GridLayout
from kivy.graphics import Color, Rectangle
from kivy.uix.boxlayout import BoxLayout
from Custom button screen import CustomButton
json data = '''
           "subject": "ED.PHYSIQUE & SPORT.",
           "subject": "SCIENCES VIE & TERRE",
           "color": "#212853"
           "color": "#FFED00"
```

```
data = json.loads(json data)
schedule data = data['schedule']
# --- Création du tableau du planning ---
class ScheduleTable(GridLayout):
      super(). init (**kwargs)
      self.spacing = 5
      self.padding = 5
"Statut"]
       for header in headers:
          self.add widget(header label)
```

```
# Combiner les colonnes Début et Fin en une seule
           time range = f"de {item['start time']} à
{item['end time']}"
           self.add widget(Label(text=time range,
           self.add widget(Label(text=item['subject'],
          self.add widget(Label(text=item['teacher'],
size hint y=None, height=40))
si c'est le cas
           room = item['room']
           if "[305 MEDIA]" in room:
"Salle"
"[305 MEDIA]")
           self.add widget(Label(text=room, size hint y=None,
neight=40))
211 est dans le statut)
           status = item['status']
           self.add widget(Label(text=status, size hint y=None,
class CalendarScreen(Screen):
  def __init__ (self, **kwargs):
      super(). init (**kwargs)
       self.background color = (1, 1, 1, 1) # Fond blanc
       layout = BoxLayout(orientation='vertical')
       label = Label(
           text size=(600, None),
```

```
label.pos hint = \{'x': 0.15, 'y': 0.85\}
       separator = Widget(size hint=(None, None),
size=(Window.width, 2.5), pos hint={'x': 0, 'y': 0.85})
       with separator.canvas:
           self.sep rect = Rectangle(pos=separator.pos,
size=separator.size)
       separator.bind(pos=self.update sep, size=self.update sep)
                                      size hint=(1, None), #
Taille dynamique
                                      height=Window.height * 0.6,
# Limiter la hauteur à 60%
0.1})  # Placer le tableau avec un peu d'espace
noir
       back button = CustomButton(
           size hint=(None, None),
droite
       with back button.canvas.before:
oos=back button.pos, radius=[20])
       back button.bind(on press=self.goto home)
       layout.add widget(label) # Ajouter d'abord le titre
       layout.add widget(separator) # Ajouter la ligne de
```

```
layout.add_widget(schedule_table) # Ajouter le tableau
layout.add_widget(back_button) # Ajouter le bouton retour
en bas

self.add_widget(layout)

def update_sep(self, instance, value):
    # Cette méthode est appelée lorsque la position ou la
taille du séparateur change
    self.sep_rect.pos = instance.pos
    self.sep_rect.size = instance.size

def goto_home(self, instance):
    self.manager.current = 'home'
# Lancement de l'application
class MyApp(App):
    def build(self):
        return CalendarScreen() # Pas de 'name' ici
```

code connexion_pronote:

```
# -*- coding: utf-8 -*-
import time
import logging
import sys
import re
from selenium import webdriver
from selenium.webdriver.common.by import By
from selenium.webdriver.common.keys import Keys
from selenium.webdriver.firefox.service import Service
from selenium.webdriver.support.ui import WebDriverWait
from selenium.webdriver.support import expected conditions as EC
from selenium.common.exceptions import TimeoutException
from bs4 import BeautifulSoup
logging.basicConfig(
  level=logging.INFO,
  stream=sys.stdout
```

```
logger = logging.getLogger("ScrapPronote")
def wait for element(driver, by, selector, wait time=20):
           EC.presence of element located((by, selector))
  except TimeoutException:
       logger.warning("Timeout lors de l'attente de l'élément :
ss", selector)
      return None
class ScrapPronote:
       self.USERNAME = "ethan.trunsard"
       self.PASSWORD = "ARfox324#384268"
"https://www.moncollege-ent.essonne.fr/auth/login?callback=%2Fcas%
       self.WAIT TIME = 20
  def login(self, driver):
      logger.info("Accès à la page de connexion Pronote...")
      driver.get(self.URL LOGIN)
       time.sleep(3) # Pause initiale
self.WAIT TIME)
       password field = wait for element(driver, By.NAME,
"password", self.WAIT TIME)
       if not email field or not password field:
       email field.send keys(self.USERNAME)
```

```
password field.send keys(self.PASSWORD)
       password field.send keys(Keys.RETURN)
       logger.info("Formulaire de connexion soumis.")
une liste de cours)
       if not wait for element (driver, By.CSS SELECTOR,
"ul.liste-cours", self.WAIT TIME):
pas chargée correctement.")
       logger.info("Connexion réussie, page d'accueil chargée.")
def parse schedule(soup):
  schedule = []
  ul = soup.find("ul", class ="liste-cours")
   if ul:
       for li in ul.find all("li", class = "flex-contain",
recursive=False):
matière
           sr text = li.find("span",
:lass ="sr-only").get text(strip=True)                           if li.find("span",
SPORT."
           match =
re.search(r"de\s+(\d\{1,2\}h\d\{2\})\s+a\s+(\d\{1,2\}h\d\{2\})\s+(.*)",
sr text)
           if match:
               start time = match.group(1)
               end time = match.group(2)
               subject text = match.group(3)
               start time = end time = subject text = ""
           items = [item.get text(strip=True) for item in
container.find all("li")] if container else []
un statut (ex: "Prof. absent")
```

```
room = items[2] if len(items) > 2 else ""
           status = items[3] if len(items) > 3 else ""
           trait = li.find("div", class ="trait-matiere")
               style = trait["style"]
               m = re.search(r"background-color\s*:\s*([^;]+)",
style)
               if m:
                   color = m.group(1).strip()
           schedule.append({
               "subject": subject text,
               "teacher": teacher,
               "status": status,
  return schedule
def parse homework(soup):
  homework list = []
  if container:
           subject el = li.find("span", class ="titre-matiere")
cecursive=True)
          date_el = li.find parent("li",
           date text = ""
           if date el and date el.find("h3"):
               date_text = date_el.find("h3").get_text(strip=True)
```

```
homework list.append({
               "subject": subject el.get text(strip=True) if
subject el else "",
               "status": status el.get text(strip=True) if
status el else "",
               "description": desc el.get text(strip=True) if
desc el else "",
               "date": date text
   return homework list
def parse notes(soup):
  notes = []
  if ul:
           a = li.find("a", class ="wrapper-link")
           if a:
               subject el = a.find("h3")
class ="infos-conteneur").find("span", class ="date") if
a.find("div", class ="infos-conteneur") else None
               eval container = a.find("div",
               evaluations = []
               if eval container:
                   for span in eval container.find all("span",
                       title = span.get("title", "").strip()
                       style = span.get("style", "")
                       color = ""
re.search(r"background-color\s*:\s*([^;]+)", style)
                           color = m.group(1).strip()
                       evaluations.append({
                           "title": title,
                           "color": color,
                           "text": span.get text(strip=True)
               notes.append({
                   "subject": subject el.get text(strip=True) if
subject el else "",
                   "date": date el.get text(strip=True) if date el
else "",
                   "evaluations": evaluations
```

```
return notes
def time to minutes(t):
      parts = t.split("h")
      if len(parts) == 2:
          hours = int(parts[0])
          minutes = int(parts[1])
          return hours * 60 + minutes
  gecko path =
  service = Service(gecko path)
  driver = webdriver.Firefox(service=service)
  scrap = ScrapPronote()
       scrap.login(driver)
       time.sleep(5) # Attendre que le JavaScript ait terminé de
      html = driver.page source
       soup = BeautifulSoup(html, "html.parser")
      for script in soup.find all("script"):
           script.decompose()
           f.write(str(soup))
       logger.info("Le code HTML dynamique a été récupéré et
enregistré dans 'code html pronote sans script.html'.")
```

```
# Extraction des données
       schedule = parse schedule(soup)
       homework = parse homework(soup)
       notes = parse notes(soup)
time to minutes(x.get("start time", "")))
       data = {
           "schedule": schedule,
           "homework": homework,
           "notes": notes
f:
          json.dump(data, f, ensure ascii=False, indent=4)
       logger.info("Les données ont été extraites et sauvegardées
dans 'extracted data.json'.")
      print(json.dumps(data, ensure ascii=False, indent=4))
  except Exception as e:
      logger.error("Une erreur s'est produite : %s", e)
      logger.info("Driver fermé.")
if __name__ == " main ":
  main()
```

code Custom buttun screen defrom kivy.uix.button import Button

```
from kivy.graphics import Color, RoundedRectangle

class CustomButton(Button):
    def __init__(self, **kwargs):
        super().__init__(**kwargs)
        self.background_normal=''
        self.background_color = (0, 0, 0, 0)
        self.color = (1, 1, 1, 1)

    with self.canvas.before:
        Color(0, 0.5, 1, 1)
        self.rounded_rect = RoundedRectangle(size=self.size,
pos=self.pos, radius=[50])
```

```
self.bind(size=self.update_rounded_rect,
pos=self.update_rounded_rect)

def update_rounded_rect(self, *args):
    self.rounded_rect.size = self.size
    self.rounded_rect.pos = self.pos
```

code json extracted dat {

```
"subject": "ED.PHYSIQUE & SPORT.",
"subject": "SCIENCES VIE & TERRE",
"status": "Prof. absent",
"subject": "ANGLAIS LV1",
"color": "#FFED00"
"subject": "Pas de cours",
```

```
"subject": "ESPAGNOL LV2",
           "color": "#A2C62B"
           "subject": "ARTS PLASTIOUES",
           "status": "Fait",
lesquels vous pourriez découper, n'hésitez pas à les apporter
jeudi !",
           "status": "Fait",
           "description": "Si vous avez des magazines dans
lesquels vous pourriez découper, n'hésitez pas à les apporter
           "subject": "HISTOIRE-GEOGRAPHIE-EMC",
```

```
"status": "Fait",
           "description": "Apportez votre ordinateur chargé pour
           "subject": "ESPAGNOL LV2",
           "status": "Non Fait",
secuencia.Puedes escuchar de nuevo mi comentario oral sobre la
evaluacion precedente",
           "status": "Fait",
           "description": "Rendre son rapport de stage relié et
dactylographié (format papier). Vous pouvez bien entendu le rendre
avant. Aucun retard ne sera accepté.",
           "subject": "FRANCAIS",
           "status": "Non Fait",
           "description": "Faire sur feuille correctement
présentée :Rédigez la question de synthèse.Faire l'exercice sur
les personnifications.",
```

```
"description": "Faire sur feuille correctement
           "description": "79p41",
           "subject": "SCIENCES VIE & TERRE",
interrogés sur 1 à 3 questions parmi celles des fiches de
mémorisation n°1, n°2 et n°3",
           "status": "Non Fait",
           "description": "Évaluation fiche mémo : vous serez
interrogés sur 1 à 3 questions parmi celles des fiches de
mémorisation n°1, n°2 et n°3",
           "subject": "FRANCAIS",
           "evaluations": [
                   "title": "Très bonne maîtrise - Lire des œuvres
littéraires et fréquenter des œuvres d'art.",
                   "color": "#008000",
```

```
"text":
rendre un travail pour la date demandée",
idées principales de documents courts.",
informations ciblées.",
```

```
"title": "",
court récit, des poèmes simples...",
                   "color": "#45B851",
voix un texte très bref.",
prononciation est compréhensible, l'intonation et l'accentuation
sont généralement correctes.",
                   "color": "#45B851",
```

```
"date": "le 14 févr.",
partager, argumenter et débattre",
idées principales de documents courts.",
```

```
code fil actulaites from kivy.uix.label import Labe
from kivy.uix.floatlayout import FloatLayout
from kivy.graphics import Color, Rectangle
from kivy.uix.screenmanager import Screen
from kivy.uix.widget import Widget
from kivy.core.window import Window
from parametres import *
from Custom button screen import CustomButton
class NewsFeedScreen(Screen):
  def init (self, **kwargs):
       layout = FloatLayout()
       with layout.canvas.before:
           self.rect = Rectangle(size=self.size, pos=self.pos)
       self.bind(size=self.update rect, pos=self.update rect)
           size hint=(None, None),
           size=(112.5, 75),
vertical button retour}
       back button.rounded rect.radius = [20] # Par exemple, 20
au lieu de 50
       back button.bind(on press=self.goto home)
       label = Label(
           size=(600, 200),
```

```
label.pos hint = \{'x': 0.12, 'y': 0.77\}
      separator = Widget(size hint=(None, None),
      with separator.canvas:
          self.sep rect = Rectangle(pos=separator.pos,
ize=separator.size)
      separator.bind(pos=self.update sep, size=self.update sep)
      layout.add widget(back button)
      layout.add widget(label)
      layout.add widget(separator)
     self.add widget(layout)
      self.rect.pos = self.pos
 def update sep(self, instance, value):
      self.sep rect.pos = instance.pos
      self.sep_rect.size = instance.size
     self.manager.current = 'home'
```

code home screen from kivy.uix.widget import Widget

```
from kivy.uix.boxlayout import BoxLayout

from kivy.uix.gridlayout import GridLayout

from kivy.graphics import Color, Rectangle

from kivy.uix.screenmanager import Screen

from Custom_button_screen import CustomButton

class HomeScreen(Screen):
    def __init__(self, **kwargs):
        super().__init__(**kwargs)
        layout = BoxLayout(orientation='vertical', padding=50,

spacing=20)
```

```
with layout.canvas.before:
    self.rect = Rectangle(size=self.size, pos=self.pos)
self.bind(size=self.update_rect, pos=self.update_rect)
calendar button = CustomButton(
    text="Calendrier",
    size hint=(None, None),
news feed button = CustomButton(
    size hint=(None, None),
    size=(300, 100),
pronote button = CustomButton(
    text="Pronote",
    size hint=(None, None),
rappels button = CustomButton(
    size hint=(None, None),
calendar button.bind(on press=self.goto calendar)
news feed button.bind(on press=self.goto news feed)
pronote button.bind(on press=self.goto pronote)
rappels button.bind(on press=self.goto rappels)
button grid = GridLayout(cols=2, spacing=20, padding=50)
```

```
# Ajout des widgets au layout
layout.add_widget(Widget(size_hint_y=1)) # Espace vide en
haut

layout.add_widget(button_grid)
layout.add_widget(Widget(size_hint_y=0.5)) # Espace en bas

# Ajout des boutons au grid
button_grid.add_widget(calendar_button)
button_grid.add_widget(pronote_button)
button_grid.add_widget(pronote_button)
button_grid.add_widget(rappels_button)

self.add_widget(layout)

def goto_calendar(self, instance):
    self.manager.current = 'calendar'

def goto_pronote(self, instance):
    self.manager.current = 'news_feed'

def goto_pronote(self, instance):
    self.manager.current = 'rappels'

def update_rect(self, *args):
    self.rect.size = self.size
    self.rect.pos = self.pos
```

code main

```
from kivy.app import App
from kivy.uix.screenmanager import ScreenManager, NoTransition

from Home_screen import HomeScreen
from Rappels_screen import RappelsScreen
from Pronote_screen import PronoteScreen
from Calendar_screen import CalendarScreen
from Fil_actualites_screen import NewsFeedScreen

class MainApp(App):
    def build(self):
        # Création du gestionnaire de screens
        sm = ScreenManager(transition=NoTransition())
        sm.add_widget(HomeScreen(name='home'))
        sm.add_widget(CalendarScreen(name='calendar'))
```

```
sm.add_widget(NewsFeedScreen(name='news_feed'))
    sm.add_widget(RappelsScreen(name='rappels'))
    sm.add_widget(PronoteScreen(name='pronote'))
    return sm

if __name__ == '__main__':
    MainApp().run()
```

code parametre

```
horizontale_button_retour = 0.99
vertical_button_retour = 0.15
horizontale_titre = 0.12
vertical_titre = 0.77
```

code pronote screen from kivy.uix.label import Label

```
from kivy.uix.floatlayout import FloatLayout
from kivy.graphics import Color, Rectangle
from kivy.uix.screenmanager import Screen
from kivy.uix.widget import Widget
from kivy.core.window import Window
from parametres import *
from Custom button screen import CustomButton
class PronoteScreen(Screen):
  def init (self, **kwargs):
      super(). init (**kwargs)
      layout = FloatLayout()
      with layout.canvas.before:
          self.rect = Rectangle(size=self.size, pos=self.pos)
      self.bind(size=self.update rect, pos=self.update rect)
       back button = CustomButton(
          size=(112.5, 75),
vertical button retour}
```

```
back button.rounded rect.radius = [20] # Par exemple, 20
      back button.bind(on press=self.goto home)
      label = Label(
          size=(600, 200),
      label.pos hint = \{'x': 0.12, 'y': 0.77\}
      separator = Widget(size hint=(None, None),
size=(Window.width, 2.5), pos hint={'x': 0, 'y': 0.85})
      with separator.canvas:
          self.sep rect = Rectangle(pos=separator.pos,
size=separator.size)
      separator.bind(pos=self.update sep, size=self.update sep)
      layout.add widget(back button)
      layout.add widget(label)
      layout.add widget(separator)
      self.add widget(layout)
      self.rect.size = self.size
      self.rect.pos = self.pos
  def update sep(self, instance, value):
      self.sep rect.pos = instance.pos
      self.manager.current = 'home'
```

```
rappel screen from kivy.uix.label import Label
from kivy.uix.floatlayout import FloatLayout
from kivy.graphics import Color, Rectangle
from kivy.uix.screenmanager import Screen
from kivy.uix.widget import Widget
from kivy.core.window import Window
from parametres import *
from Custom button screen import CustomButton
class RappelsScreen(Screen):
  def init (self, **kwargs):
       super(). init (**kwargs)
      layout = FloatLayout()
       with layout.canvas.before:
           self.rect = Rectangle(size=self.size, pos=self.pos)
       self.bind(size=self.update rect, pos=self.update rect)
       back button = CustomButton(
           size=(112.5, 75),
vertical button retour}
```

back_button.bind(on_press=self.goto_home)

label = Label(

size=(600, 200),

```
label.pos_hint = \{'x': 0.12, 'y': 0.77\}
largeur de l'écran)
      separator = Widget(size hint=(None, None),
      with separator.canvas:
           self.sep rect = Rectangle(pos=separator.pos,
 ize=separator.size)
       separator.bind(pos=self.update sep, size=self.update sep)
       layout.add widget(back button)
       layout.add widget(label)
      layout.add widget(separator)
      self.add widget(layout)
      self.rect.size = self.size
      self.rect.pos = self.pos
  def update sep(self, instance, value):
      self.sep rect.pos = instance.pos
       self.sep rect.size = instance.size
      self.manager.current = 'home'
```

code scrap #!/usr/bin/env python

```
du JS,
ATTENTION :
Historique :
import time
import json
import logging
import sys
import traceback
from typing import TextIO, Any
from selenium import webdriver
from selenium.webdriver.common.by import By
from selenium.webdriver.common.keys import Keys
from selenium.webdriver.firefox.options import Options as
FirefoxOptions
from selenium.webdriver.firefox.service import Service as
FirefoxService
from selenium.webdriver.support.ui import WebDriverWait
from selenium.webdriver.support import expected conditions as EC
```

```
from selenium.common.exceptions import (NoSuchElementException,
TimeoutException,
                                       WebDriverException)
logging.basicConfig(
  level=logging.INFO,
  stream=sys.stdout
logger = logging.getLogger("ScrapPronote")
def wait for element(driver, by, selector, wait time=20):
  try:
      element = WebDriverWait(driver, wait time).until(
       return element
   except TimeoutException:
       logger.warning("Timeout lors de l'attente de l'élément :
ss", selector)
def click element(driver, by, selector, wait time=20):
       element = WebDriverWait(driver, wait time).until(
           EC.element to be clickable ((by, selector))
       element.click()
       return True
   except TimeoutException:
      logger.warning("Timeout lors du clic sur l'élément : %s",
selector)
      return False
      logger.error("Erreur lors du clic sur l'élément %s: %s",
selector, e)
      return False
def retry operation(func, max retries=3, delay=5):
   for attempt in range(max retries):
```

```
return func()
           logger.warning("Tentative %d échouée: %s", attempt + 1,
e)
           time.sleep(delay)
   return None
def save data to file(data, filename="pronote data.json"):
  try:
           json.dump(data, f, ensure ascii=False, indent=4)
       logger.info("Données sauvegardées dans le fichier : %s",
filename)
       logger.error("Erreur lors de la sauvegarde des données :
def parse sr only text(text):
  result = {"horaire debut": "", "horaire fin": "", "matiere":
   try:
       if text.lower().startswith("de ") and "à" in text.lower():
           parts = text.split("a")
           start part = parts[0].replace("de", "").strip() # ex:
"8h30"
           rest = parts[1].strip() # ex: "9h25 PHYSIQUE-CHIMIE"
           subparts = rest.split(" ", 1)
           if len(subparts) == 2:
               result["horaire debut"] = start part
               result["horaire fin"] = subparts[0].strip()
               result["matiere"] = subparts[1].strip()
       logger.error("Erreur lors du parsing du texte sr-only :
   return result
def convert color(rgb string):
  try:
```

```
rgb = rgb string.replace("rgb(", "").replace(")",
"").split(",")
       rgb = [int(x.strip()) for x in rgb]
       return "#{:02X}{:02X}{:02X}".format(rgb[0], rgb[1], rgb[2])
       logger.warning("Erreur lors de la conversion de couleur :
      return rgb string
class ScrapPronote:
      self.USERNAME = "ethan.trunsard"
eleve.html#/"
       self.GECKODRIVER PATH =
      self.WAIT TIME = 20
       self.data = {
           "homework": [],
```

```
logger.info("Accès à la page de connexion Pronote...")
       driver.get(self.URL LOGIN)
      time.sleep(3) # Pause pour le chargement initial
       email field = wait for element(driver, By.NAME, "email",
self.WAIT TIME)
      password field = wait for element(driver, By.NAME,
"password", self.WAIT TIME)
       if not email field or not password field:
accessibles.")
      email field.send keys(self.USERNAME)
      password field.send keys(self.PASSWORD)
      password field.send keys(Keys.RETURN)
       logger.info("Formulaire de connexion soumis.")
       if not wait for element (driver, By.CSS SELECTOR,
"ul.liste-cours", self.WAIT TIME):
pas chargée correctement.")
       logger.info("Connexion réussie, page d'accueil chargée.")
  def get timetable data(self, driver):
       logger.info("Début de l'extraction de l'emploi du
       try:
           courses = driver.find elements(By.CSS SELECTOR,
          logger.info("Nombre de cours trouvés: %s",
len(courses))
           for course in courses:
               course info = {
```

```
div.container-heures
               try:
course.find element(By.CSS SELECTOR, "div.container-heures")
                   heures =
container heures.find elements(By.TAG NAME, "div")
heures[0].text.strip()
                       course info["horaire fin"] =
heures[1].text.strip()
                       logger.warning("Nombre insuffisant de div
dans container-heures.")
               except NoSuchElementException:
                   logger.warning("Horaires non trouvés pour un
div.trait-matiere
                   trait = course.find element(By.CSS SELECTOR,
"div.trait-matiere")
trait.value of css property("background-color")
convert color(raw color)
               except NoSuchElementException:
                   logger.warning("Trait couleur non trouvé pour
ce cours.")
ul.container-cours
               try:
                   inner ul = course.find element(By.CSS SELECTOR,
"li")
                       course info["matiere"] =
inner lis[0].text.strip()
```

```
course info["professeur"] =
inner lis[1].text.strip()
                   if len(inner lis) > 2:
inner lis[2].text.strip()
               except NoSuchElementException:
                   logger.warning("Informations
matière/professeur/salle non trouvées pour un cours.")
extraites, tenter de parser le span.sr-only
course info["matiere"]):
course.find element(By.CSS SELECTOR, "span.sr-only").text.strip()
                       parsed = parse sr only text(sr text)
parsed.get("horaire debut", "")
                       course info["horaire fin"] =
parsed.get("horaire fin", "")
                       course info["matiere"] =
parsed.get("matiere", "")
                   except NoSuchElementException:
                       logger.warning("Élément sr-only non trouvé
pour le cours.")
               if not (course info["matiere"] or
course info["horaire debut"] or course info["professeur"]):
                   logger.info("Cours vide détecté, passage au
suivant.")
               timetable data.append(course info)
               logger.info("Cours extrait: %s", course info)
       except Exception as e:
           logger.error("Erreur lors de l'extraction de l'emploi
du temps: %s", e)
           traceback.print exc()
```

```
logger.info("Début de l'extraction des devoirs...")
selon le HTML réel)
           if not click element (driver, By.CSS SELECTOR,
".menu-cahierdetexte", self.WAIT TIME):
               logger.warning("Impossible de cliquer sur l'onglet
Devoirs/Cahier de texte.")
           if not wait for element(driver, By.CSS SELECTOR,
"#GInterface .conteneur-liste-CDT", self.WAIT TIME):
               logger.warning("Liste des devoirs non trouvée.")
               return homework data
           devoirs elements =
driver.find elements(By.CSS SELECTOR, "#GInterface
                   date element = d.find element(By.CSS SELECTOR,
date element.text.strip()
               except NoSuchElementException:
                   logger.warning("Date d'échéance non trouvée
pour un devoir.")
                   description element =
d.find_element(By.CSS_SELECTOR, ".description")
description element.text.strip()
               except NoSuchElementException:
                   logger.warning("Description non trouvée pour un
devoir.")
```

```
matiere element =
d.find element(By.CSS SELECTOR, ".titre-matiere")
matiere element.text.strip()
               except NoSuchElementException:
                   logger.warning("Matière non trouvée pour un
devoir.")
               homework data.append(devoir info)
               logger.info("Devoir extrait: %s", devoir info)
       except Exception as e:
           logger.error("Erreur lors de l'extraction des devoirs:
           traceback.print exc()
       logger.info("Début de l'extraction des notes...")
HTML réel)
          if not click element(driver, By.CSS SELECTOR,
".menu-notes", self.WAIT_TIME):
               logger.warning("Impossible de cliquer sur l'onglet
Notes.")
           if not wait for element (driver, By.CSS SELECTOR,
".liste-notes", self.WAIT TIME):
               logger.warning("Liste des notes non trouvée.")
           note rows = driver.find elements(By.CSS SELECTOR,
".liste-notes .note-row")
               note info = {"matiere": "", "note": "", "couleur":
                  matiere elem =
row.find element(By.CSS SELECTOR, ".note-matiere")
matiere elem.text.strip()
```

```
except NoSuchElementException:
                   logger.warning("Matière non trouvée dans une
ligne de note.")
                   note_elem = row.find element(By.CSS_SELECTOR,
                   note info["note"] = note elem.text.strip()
note elem.value of css property("color")
               except NoSuchElementException:
                   logger.warning("Valeur de note ou couleur non
               notes data.append(note info)
               logger.info("Note extraite: %s", note info)
           logger.error("Erreur lors de l'extraction des notes:
           traceback.print exc()
       logger.info("Initialisation du driver Firefox...")
       options = FirefoxOptions()
       options.headless = True # Mode headless
       try:
           service =
FirefoxService(executable path=self.GECKODRIVER PATH)
          driver = webdriver.Firefox(service=service,
options=options)
           driver.maximize window()
           self.login(driver)
           timetable = self.get timetable data(driver)
           self.data["timetable"] = timetable
           homework = self.get homework data(driver)
```

```
notes = self.get notes data(driver)
           self.data["notes"] = notes
           save data to file(self.data, "pronote data.json")
           driver.quit()
           logger.info("Script terminé, navigateur fermé.")
       except WebDriverException as wde:
           logger.error("Erreur WebDriver: %s", wde)
           traceback.print exc()
       except Exception as e:
           logger.error("Erreur lors de l'exécution du script:
           traceback.print exc()
               driver.quit()
def additional processing(data):
  processed = {}
  timetable = data.get("timetable", [])
course.get("matiere") or course.get("horaire debut")]
       filtered timetable.sort(key=lambda c:
c.get("horaire debut"))
       logger.warning("Impossible de trier l'emploi du temps: %s",
e)
  processed["timetable"] = filtered timetable
   processed["homework"] = data.get("homework", [])
  processed["notes"] = data.get("notes", [])
   return processed
def generate report(data, filename="report.txt"):
```

```
with open (filename, "w", encoding="utf-8") as f:
         f.write("==== Rapport d'extraction Pronote =====\n\n")
         f.write("=== Emploi du temps ===\n")
         for course in data.get("timetable", []):
f.write("------
            f.write("Horaire : {} -
{}\n".format(course.get("horaire debut"),
course.get("horaire fin")))
          f.write("Matière
{ } \n".format(course.get("matiere")))
            f.write("Professeur :
{ } \n".format(course.get("professeur")))
           f.write("Salle :
{ } \n".format(course.get("salle")))
            f.write("Couleur :
{ } \n".format(course.get("couleur")))
f.write("-------
         f.write("\n=== Devoirs ===\n")
         for hw in data.get("homework", []):
f.write("-----
            f.write("Date d'échéance :
{ } \n".format(hw.get("date echeance")))
            f.write("Description
{ } \n".format(hw.get("description")))
f.write("----\n")
         f.write("n=== Notes ===n")
         for note in data.get("notes", []):
f.write("-----\n")
            f.write("Matière :
{ } \n".format(note.get("matiere")))
            f.write("Note : {}\n".format(note.get("note")))
            f.write("Couleur :
{ } \n".format(note.get("couleur")))
f.write("-----\n")
     logger.info("Rapport généré dans le fichier : %s",
filename)
     logger.error("Erreur lors de la génération du rapport: %s",
e)
```

```
def dummy function 1():
       logger.debug("Dummy Function 1 - Iteration %s", i)
       time.sleep(0.1)
def dummy function 2():
       logger.debug("Dummy Function 2 - Iteration %s", i)
       time.sleep(0.1)
   return "Dummy2"
class ExtraProcessor:
      processed data = {"extra": []}
           processed data["extra"].append(f"Info extra {i}")
       return processed data
       report = "Rapport détaillé de ExtraProcessor:\n"
           report += f"Ligne détaillée {i}: description de l'info
extra.\n"
      return report
def dummy loop():
  for i in range (50):
       logger.debug("Dummy loop iteration %s", i)
       time.sleep(0.02)
def additional dummy code():
  data = {}
       data[key] = value
   return data
def main():
  logger.info("Lancement du script d'extraction Pronote.")
  scraper = ScrapPronote()
  retry result = retry operation(scraper.scrap all data,
```

```
if retry result is None:
      logger.error("L'extraction des données a échoué après
      logger.info("Extraction terminée avec succès.")
  data = scraper.data
  processed data = additional processing(data)
  save data to file(processed data, "nhvfsj.json")
  generate report(processed data, "report.txt")
  for course in processed data.get("timetable", []):
      print("Horaire :", course.get("horaire debut"), "-",
course.get("horaire fin"))
      print("Matière :", course.get("matiere"))
      print("Professeur :", course.get("professeur"))
      print("----")
  for hw in processed data.get("homework", []):
      print("Date d'échéance :", hw.get("date echeance"))
      print("Description :", hw.get("description"))
  for note in processed data.get("notes", []):
      print("Matière :", note.get("matiere"))
      print("Note :", note.get("note"))
      print("Couleur :", note.get("couleur"))
  logger.info("Fin du script main.")
  dummy function 2()
  ep = ExtraProcessor()
  report = ep.detailed report()
  logger.info("Rapport détaillé généré par ExtraProcessor :
\n%s", report)
  for k in range(100):
```

si besoin code app

```
:meth:`App.run` method.
To initialize your app with a widget tree, override the
:meth:`~App.build`
method in your app class and return the widget tree you constructed.
Here's an example of a very simple application that just shows a
button:
The file is also available in the examples folder at
:file: `kivy/examples/application/app with build.py`.
Here, no widget tree was constructed (or if you will, a tree with
```

```
You can also use the :doc:`api-kivy.lang` for creating applications.
is the same example as the Button one in a kv file.
Contents of 'test.kv':
Contents of 'main.py':
See :file:`kivy/examples/application/app with kv.py`.
The relationship between main.py and test.kv is explained in
:meth:`App.load kv`.
Application configuration
Use the configuration file
Your application might need its own configuration file. The
using the
```

```
(available in the examples directory):
because you need a JSON file / data first.
Let's take as an example the previous snippet of TestApp with custom
config. We could create a JSON like this::
```

```
Then, we can create a panel using this JSON to automatically create
That's all! Now you can press F1 (default keystroke) to toggle the
change in the panel is automatically saved in the config file.
You can also use :meth: `App.build settings` to modify properties of
prefer this to be narrower, you could add::
```

```
optimise. The standard library profilers
approaches of using profile as a module or profile's run method does
not work
with Kivy. It is however, possible to use :meth:`App.on start` and
```

```
Customising layout
You can choose different settings widget layouts by setting
sidebar layout, but you could set it to any of the other layouts
module documentation for :mod:`kivy.uix.settings` for more
You can customise how the settings panel is displayed by
displaying the settings panel on the screen. By default, it
:class:`~kivy.uix.screenmanager.ScreenManager` if you are using
panel appear in a popup you can do::
```

```
Pause mode
application. By default, your application will close and the
If you support Pause mode, when switching to another application,
your
application will wait indefinitely until the user
Android
devices: it is not guaranteed that the OpenGL ES Context will be
not yet
The currently implemented Pause mechanism is:
```

```
Here is a simple example of how on pause() should be used::
Asynchronous app
In addition to running an app normally,
Kivy can be run within an async event loop such as provided by the
Background
Normally, when a Kivy app is run, it blocks the thread that runs it
app
To be able to run asynchronously, the Kivy app may not sleep, but
```

```
Async configuration
To run a Kivy app asynchronously, either the
The environmental variable ``KIVY EVENTLOOP`` or the ``async lib``
parameter in
trio library is used. If the environment variable is not set and
is not provided, the stdlib ``asyncio`` is used.
:meth:`~kivy.clock.ClockBaseBehavior.init async lib` can also be
directly
before the
To run the app asynchronously, one schedules
:func:`async runTouchApp`
or :meth:`App.async run` to run within the given library's async
event loop as
in the examples shown below. Kivy is then treated as just another
use the
match the async library that is running Kivy.
```

```
all running
Kivy
is idling.
```

```
import os
from inspect import getfile
from os.path import dirname, join, exists, sep, expanduser, isfile
from kivy.config import ConfigParser
from kivy.base import runTouchApp, async runTouchApp, stopTouchApp
from kivy.compat import string types
from kivy.factory import Factory
from kivy.logger import Logger
from kivy.event import EventDispatcher
from kivy.resources import resource find
from kivy.utils import platform
from kivy.uix.widget import Widget
from kivy.properties import ObjectProperty, StringProperty
from kivy.setupconfig import USE SDL2
class App(EventDispatcher):
```

```
title = StringProperty(None)
documentation.
  icon = StringProperty(None)
```

```
documentation.
  use kivy settings = True
settings. If
  settings cls = ObjectProperty(None)
provided
  subclasses with different layouts
   :attr:`~App.settings cls` is an
```

```
which
If you set
resolve the
   kv directory = StringProperty(None)
defaults to None
file. By
  kv file = StringProperty(None)
  def init (self, **kwargs):
      App. running app = self
      self. app directory = None
       self. app name = None
       self. app settings = None
      self. app window = None
```

```
super(App, self). init (**kwargs)
    self.built = False
    self.options = kwargs
    self.config = None
    if not self.root:
        return Widget()
def build config(self, config):
```

```
def build settings(self, settings):
```

```
widget
      if filename:
           try:
               default kv directory =
dirname(getfile(self. class ))
               if default kv directory == '':
                  default kv directory = '.'
               default kv directory = '.'
           kv directory = self.kv directory or
default kv directory
                   not isfile(join(kv directory, '%s.kv' %
clsname))):
               clsname = clsname[:-3]
           filename = join(kv directory, '%s.kv' % clsname)
       Logger.debug('App: Loading kv <{0}>'.format(filename))
```

```
rfilename = resource find(filename)
       if rfilename is None or not exists (rfilename):
           Logger.debug('App: kv <%s> not found' % filename)
           return False
       root = Builder.load file(rfilename)
       if root:
           self.root = root
       return True
  def get application name(self):
      if self.title is not None:
       if clsname.endswith('App'):
           clsname = clsname[:-3]
       return clsname
       else:
           return resource find(self.icon)
  def get application config(self,
defaultpath='%(appdir)s/%(appname)s.ini'):
```

```
if platform == 'android':
         return join(self.user data dir,
.{0}.ini'.format(self.name))
          defaultpath = '~/Documents/.%(appname)s.ini'
         defaultpath = defaultpath.replace('/', sep)
      return expanduser(defaultpath) % {
          'appname': self.name, 'appdir': self.directory}
     return self._app_window
```

```
def load config(self):
          config = ConfigParser.get configparser('app')
          config = None
      if config is None:
          config = ConfigParser(name='app')
      self.config = config
      self.build config(config)
      if len(config.sections()) == 0:
      filename = self.get application config()
      if filename is None:
          return config
      Logger.debug('App: Loading configuration
<{0}>'.format(filename))
      if exists(filename):
              config.read(filename)
              Logger.error('App: Corrupted config file,
                  config = ConfigParser.get configparser('app')
                  config = None
```

```
if config is None:
                   config = ConfigParser(name='app')
               self.config = config
               self.build config(config)
           Logger.debug('App: First configuration, create
<{0}>'.format(
               filename))
           config.filename = filename
           config.write()
       return config
   @property
      if self._app_directory is None:
               self. app directory =
dirname(getfile(self.__class__))
               if self. app directory == '':
                   self. app directory = '.'
               self. app directory = '.'
       return self. app directory
       data dir = ""
       if platform == 'ios':
           data dir = expanduser(join('~/Documents', self.name))
       elif platform == 'android':
           PythonActivity =
autoclass('org.kivy.android.PythonActivity')
PythonActivity.mActivity)
           file p = cast('java.io.File', context.getFilesDir())
           data dir = file p.getAbsolutePath()
           data dir = os.path.join(os.environ['APPDATA'],
```

```
data dir = '~/Library/Application
Support/{}'.format(self.name)
           data dir = expanduser(data dir)
           data dir = os.environ.get('XDG CONFIG HOME',
'~/.config')
           data dir = expanduser(join(data dir, self.name))
       if not exists(data dir):
       return data dir
  @property
directory
```

```
self. user data dir = self. get user data dir()
       return self. user data dir
  @property
  def name(self):
      if self. app name is None:
           if clsname.endswith('App'):
               clsname = clsname[:-3]
           self. app name = clsname.lower()
       return self._app_name
       if not self.built:
           self.load config()
           root = self.build()
           if root:
              self.root = root
       if self.root:
           if not isinstance(self.root, Widget):
               Logger.critical('App.root must be an instance of
Widget')
           Window.add widget(self.root)
       from kivy.base import EventLoop
      window = EventLoop.window
       if window:
           self. app window = window
           window.set title(self.get application name())
           icon = self.get application icon()
               window.set icon(icon)
```

```
self. install settings keys(window)
        Logger.critical("Application: No window is created."
    self.dispatch('on start')
def run(self):
    self. run prepare()
    runTouchApp()
async def async run(self, async lib=None):
    self. run prepare()
    await async runTouchApp(async lib=async lib)
    self. stop()
def stop(self, *largs):
    if platform == 'android':
        from android import mActivity
        mActivity.finishAndRemoveTask()
        self. stop()
def stop(self, *largs):
    self.dispatch('on stop')
    stopTouchApp()
    if self. app window:
```

```
for child in self. app window.children:
            self. app window.remove widget(child)
    App. running app = None
def pause(self, *largs):
   if platform == 'android':
        from android import mActivity
        mActivity.moveTaskToBack(True)
    else:
        Logger.info('App.pause() is not available on this OS.')
```

```
return True
   return App. running app
def on_config_change(self, config, section, key, value):
def open settings(self, *largs):
```

```
if self._app_settings is None:
           self. app settings = self.create settings()
       displayed = self.display_settings(self._app_settings)
       if displayed:
           return True
       return False
  def display settings(self, settings):
      win = self. app window
       if not win:
you cannot'
       if settings not in win.children:
           win.add widget(settings)
           return True
       return False
  def close settings(self, *largs):
```

```
'''Close the previously opened settings panel.
win = self. app window
settings = self. app settings
if win is None or settings is None:
    return
if settings in win.children:
    win.remove widget(settings)
    return True
return False
if self.settings cls is None:
    from kivy.uix.settings import SettingsWithSpinner
    self.settings cls = SettingsWithSpinner
elif isinstance(self.settings cls, string types):
    self.settings cls = Factory.get(self.settings cls)
s = self.settings cls()
self.build settings(s)
if self.use kivy settings:
    s.add kivy panel()
s.bind(on close=self.close settings,
       on config change=self. on config change)
```

```
if self. app settings is not None:
        self. app settings = None
def on config change(self, *largs):
   self.dispatch('on config change', *largs[1:])
    window.bind(on keyboard=self. on keyboard_settings)
def on keyboard settings(self, window, *largs):
    key = largs[0]
        import pygame
        setting_key = pygame.K_MENU
        if not self.open settings():
           self.close settings()
        return True
```

```
def on_title(self, instance, title):
    if self._app_window:
        self._app_window.set_title(title)

def on_icon(self, instance, icon):
    if self._app_window:
        self._app_window.set_icon(self.get_application_icon())
```