```
In [ ]: #!/usr/bin/env python
# coding: utf-8
# import of relevant libraries
import scrapy
from scrapy.crawler import CrawlerProcess
from scrapy import Selector
from scrapy.linkextractors import LinkExtractor
from ferrari scraper.items import FerrariItem
import numpy as np
from scrapy.loader import ItemLoader
import csv
from datetime import datetime
#creating spider for Ferrari
class FinanceNewsScraperSpider(scrapy.Spider):
    name = "ferrarinewsarticles"
    def start requests(self):
        start_urls = ['https://www.reuters.com/companies/RACE.MI/news',
        urls = start_urls
        for url in urls:
            yield scrapy.Request(url=url, callback=self.parse newspage)
    def parse newspage(self, response):
        links = response.xpath('//a[contains(@href,"/article/")]/@href').extract()
#extract hyperlink
        for url in links:
            yield response.follow(url = url,callback = self.parse article)
    def parse article(self, response):
        item = FerrariItem()
        item['article link'] = response.url
        item['article headline'] = response.xpath('//*[contains(@class,"ArticleHead
er headline")]/text()').extract()
        item['article date'] = response.xpath('//*[contains(@class,"ArticleHeader d
ate")]/text()').extract()
        item['article text'] = response.xpath('//div[@class="StandardArticleBody bo
dy"]//p/text()').extract()
        print(item)
        #saving data to file.
        path = 'news/'
        file = 'ferrarinews ' + str(datetime.now().strftime("%Y%m%d-%H%M")) + '.csv
        file name = open(path + file, 'a')
        fieldnames = ['article_link', 'article_headline','article_date','article_te
xt'] #adding header to file
        writer = csv.writer(file name, lineterminator='\n')
        writer.writerow([item[key] for key in item.keys()])
```

1 von 1 25.09.2020, 13:37