Web data extraction Requirement document

Suggested Code Policy:

1. Copy the Project folder structure from bellow github link.

<https://github.com/pool23/pool_UK>

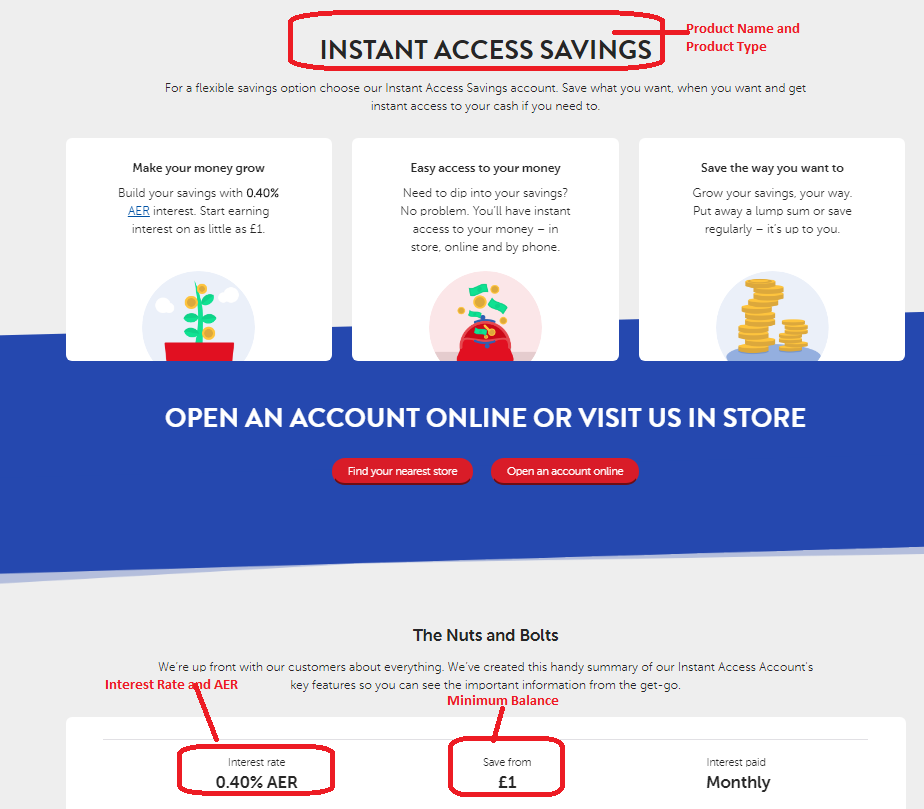
1. Use Python(Mandatory) with BeautifulSoup, Scrapy and Selenium (Feel free to use any other Python libraries)
2. Store Scrapped data with provided file name and CSV format.

Work 1:

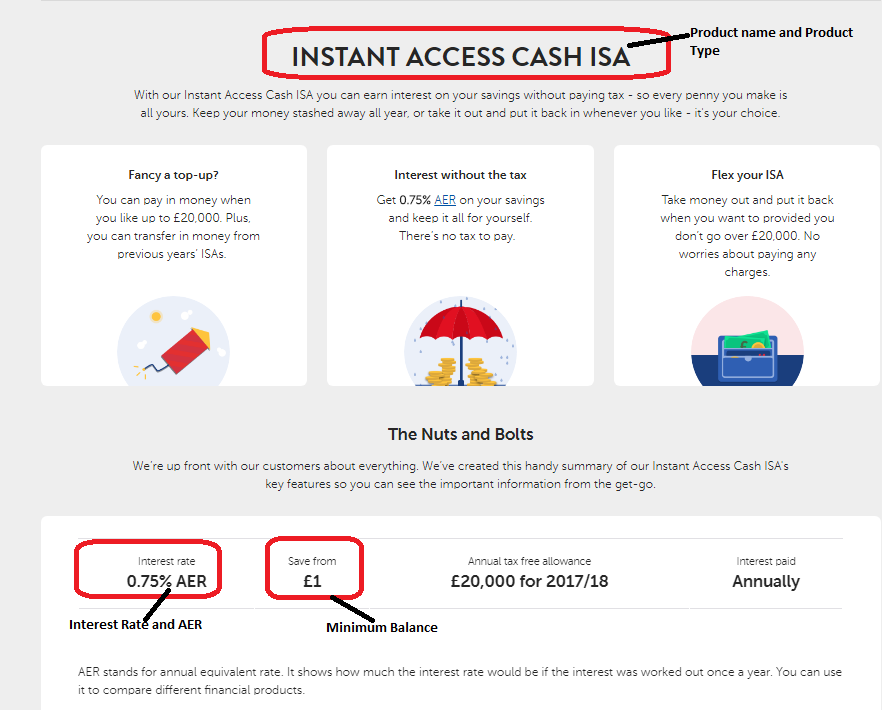
**Scarped Data Format (File Name - Metro\_Data\_Deposit\_<YYYY\_MM\_DD>.csv)**

|  |  |
| --- | --- |
| **Column NAMES for Deposits** | **Default Values** |
| Date | Date(YYYY-MM-DD) |
| Bank\_Native\_Country | UK |
| State | London |
| Bank\_Name | Halifax |
| Bank\_Local\_Currency | GBP |
| Bank\_Type | Bank |
| Bank\_Product | Deposits |
| Bank\_Product\_Type | SCRAPED DATA - Format should be Savings/Current/Term Deposits |
| Bank\_Product\_Name | SCRAPED DATA |
| Balance | SCRAPED DATA |
| Bank\_Offer\_Feature | Offline by default and Online where product name has keyword Online |
| Term in Months | SCRAPED DATA |
| Interest\_Type | SCRAPED DATA - Default is Variable |
| Interest | SCRAPED DATA |
| AER | SCRAPED DATA |
| Bank\_Product\_Code | LEAVE THIS COLUMN BLANK |

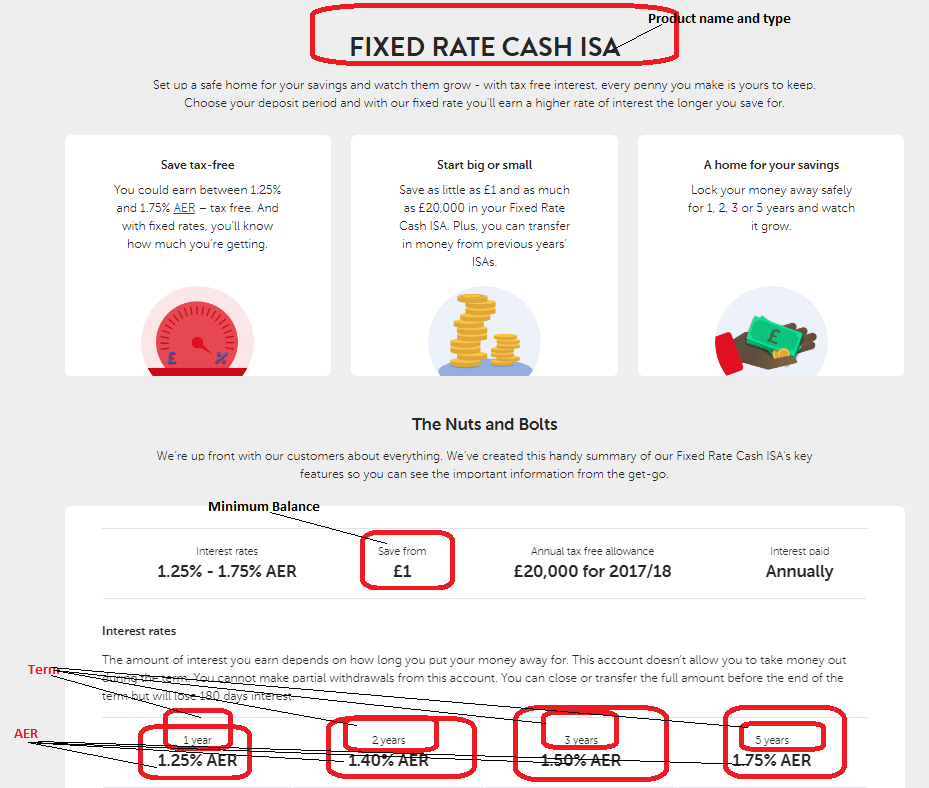
<https://www.metrobankonline.co.uk/savings/products/instant-access-savings/>

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[**https://www.metrobankonline.co.uk/savings/products/instant-access-cash-isa/**](https://www.metrobankonline.co.uk/savings/products/instant-access-cash-isa/)

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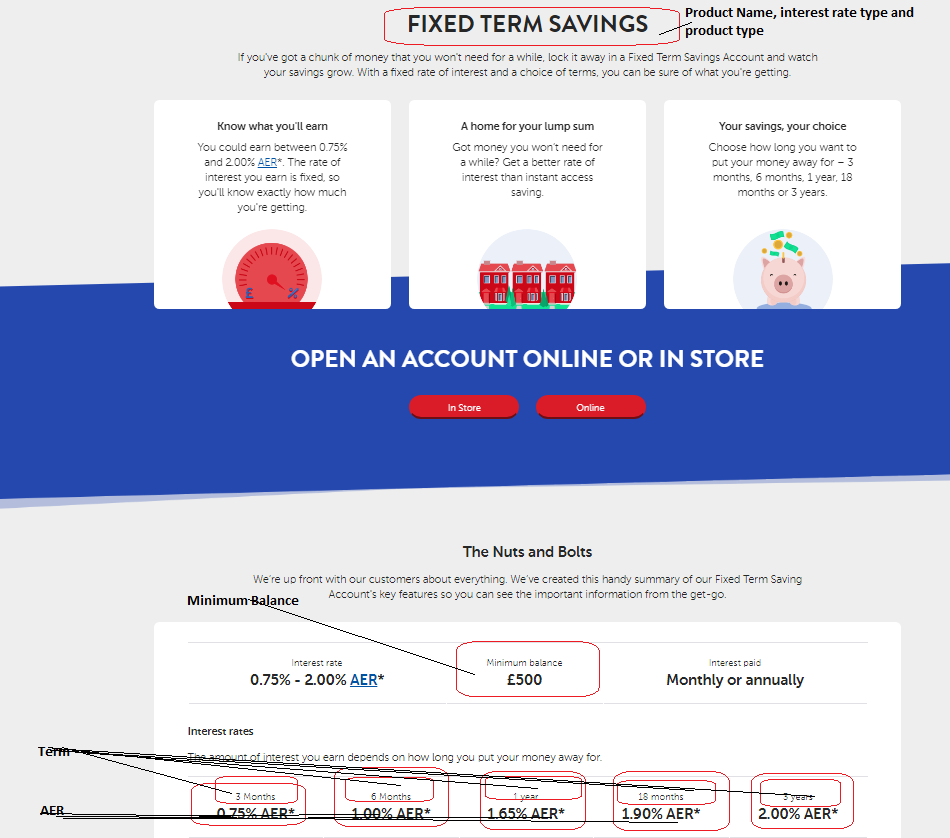
[**https://www.metrobankonline.co.uk/savings/products/fixed-rate-cash-isa/**](https://www.metrobankonline.co.uk/savings/products/fixed-rate-cash-isa/)

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[**https://www.metrobankonline.co.uk/savings/products/fixed-term-savings/**](https://www.metrobankonline.co.uk/savings/products/fixed-term-savings/)

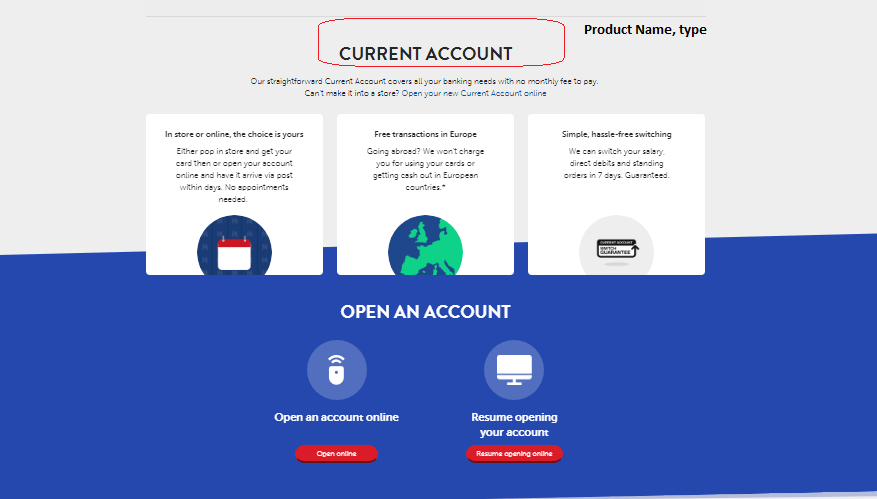
**OR**

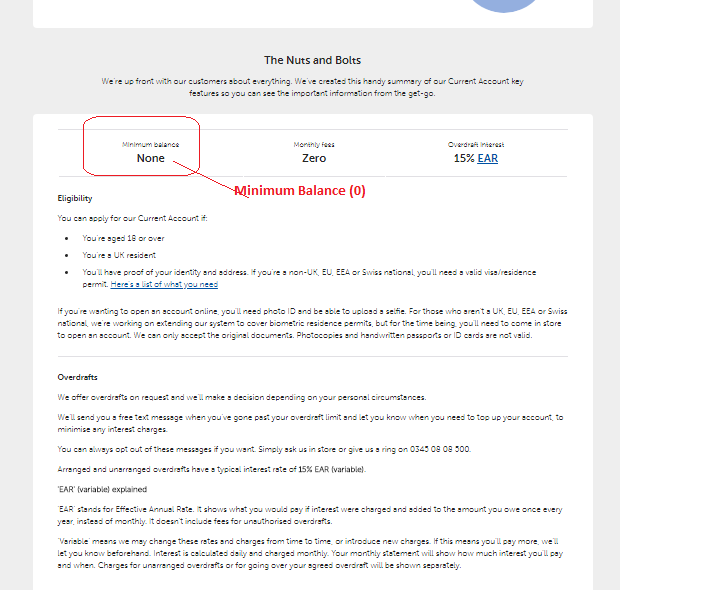
**PDF:** [**https://www.metrobankonline.co.uk/globalassets/documents/customer\_documents/personal/fixedtermsavingsaccount\_importantinformationsummary.pdf**](https://www.metrobankonline.co.uk/globalassets/documents/customer_documents/personal/fixedtermsavingsaccount_importantinformationsummary.pdf)

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**Current Account:**

[**https://www.metrobankonline.co.uk/bank-accounts/products/current-account/**](https://www.metrobankonline.co.uk/bank-accounts/products/current-account/)

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Work 2: Mortgage Rates

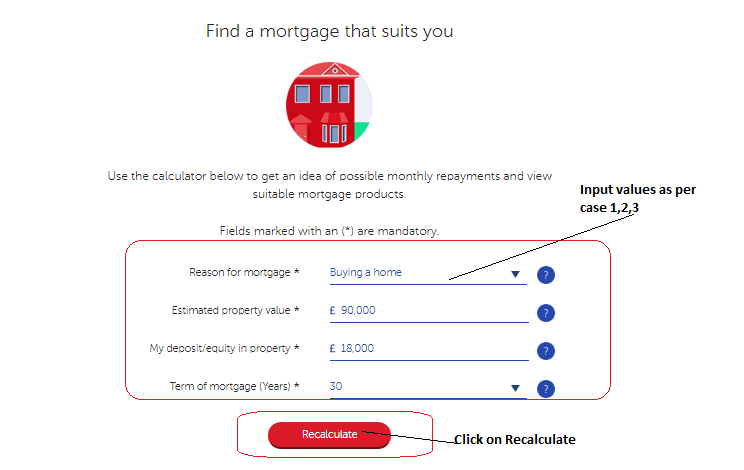
|  |  |
| --- | --- |
| **Mortgages Columns** | **Default Values** |
| Date | Date(YYYY-MM-DD) |
| Bank\_Native\_Country | UK |
| State | London |
| Bank\_Name | Lloyds Bank |
| Bank\_Local\_Currency | GBP |
| Bank\_Type | Bank |
| Bank\_Product | Mortgages |
| Bank\_Product\_Type | Mortgages |
| Bank\_Product\_Name | SCRAPED DATA |
| Min\_Loan\_Amount | SCRAPED DATA |
| Bank\_Offer\_Feature | Offline |
| Term (Y) | SCRAPED DATA |
| Interest\_Type | SCRAPED DATA (Variable, by default) |
| Interest | SCRAPED DATA |
| APRC | SCRAPED DATA |
| Mortgage\_Loan\_Amt | SCRAPED DATA |
| Mortgage\_Down\_Payment | 20% |
| Mortgage\_Category | New Purchase |
| Mortgage\_Reason | Primary Residence |
| Mortgage\_Pymt\_Mode | Principle + Interest |
| Fixed\_Rate\_Term | SCRAPED DATA <from title> |
| Bank\_Product\_Code | LEAVE THIS COLUMN BLANK |

<https://www.metrobankonline.co.uk/mortgages/products/residential-mortgages/mortgage-calculator/>

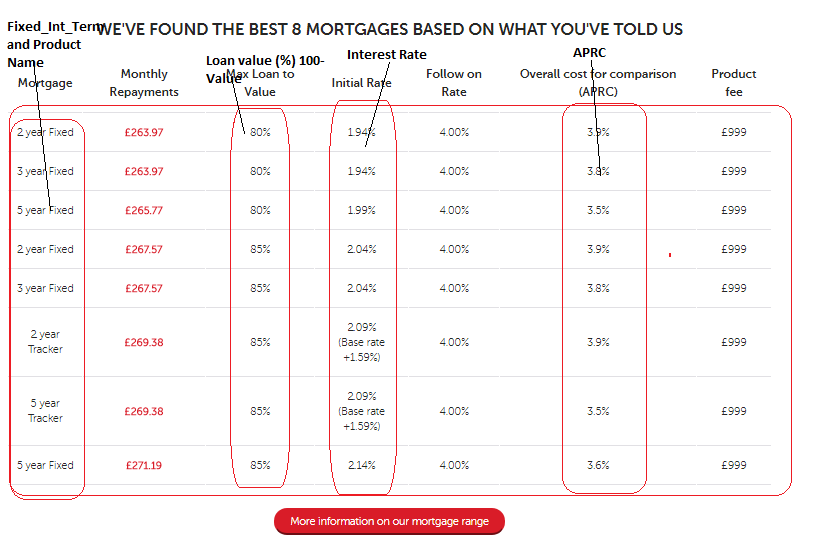
Case 1: Property Value: 90,000; Your deposit: 18,000

Case 2: Property Value: 270,000; Your deposit: 54,000

Case 2: Property Value: 450,000; Your deposit: 90,000



Click on Recalculate



Repeat for 10, 15, 25, 30 year loan term

**Example for 1st Product:**

Product Name: 2 Year Fixed

Term: 10

Fixed\_Rate\_Term: 2

Mortgage\_Down\_Pymt: 20%

Interest: 1.94%

APRC: 3.9%

Min\_Loan\_Amt: 25000