

# Software challenge

With this challenge we want to see how fit you are as a software architect, engineer and developer. For this we have come up with a small task with a looser context.

## Description

A friend's grandma knits socks on a regular basis. But she spends way too much money on the wool at the basel store next door. You want to program her (and all knitting grandmas) a comparison portal for wool. The portal is intended to display woollen ball information from various websites. To do this, you want to automatically read information from a first website, the Wollplatz, at the beginning. You are interested in the price, the delivery time, the needle size and the composition.

You have first selected the following balls for which you want to have the information

Marke	Bezeichnung
DMC	Natura XL
Drops	Safran
Drops	Baby Merino Mix
Hahn	Alpacca Speciale
Stylecraft	Special double knit

You are planning big things for your wool comparison portal. Accordingly, with this first website you already think about how you can encapsulate code so that you can add more websites and functionalities later. At first, you only want to save the data in a simple, practical format as a file.

# Technical requirements

## Language:

python

## Functional:

The listed balls of wool are automatically searched for on the website using the brand and name. For each of the balls of wool listed, the following information is saved in a data sheet, if available:

1. Price
2. Delivery Time
3. Needle Size
4. Composition

## Non-functional:

Create a few tests to verify the functional requirement. Your code should be SOLID. Use tools that are common for software development, especially for larger projects.

## Additional information:

The challenge should be processed in 2-3 hours. If you still have to read into one or the other topic, maybe a little longer. In any case, please make a note of how much time you have invested. The challenge is deliberately formulated so openly that you could put in significantly more time. If you can think of something while developing something that you think is important, but think is too extensive for this challenge, you can write it in comments, a readme or similar. hold on for us. Bonus: If 2-3 hours are too much time for you or you would like to invest more time on your own, you are welcome to try not to save the information only in one file. For example, they could also be saved in a database or displayed in the browser. To do this, you could choose technologies that are convenient for you