Tobor Inc Automation Process

J. R. Harper
QA Consulting
Project Supervisor: Roberto Fernandez
Chris Lucas: Consultant Project Liason

Contents

1 Introduction

I have been contracted to help Tobor Inc. automate their content aggregation service. This is under the project manager Roberto Fernandez, the Project Liaison Chris Lucas and the Managing Director David Bradbury.

The services to be automated included the user registration service, the content aggregation, and lastly sending a report of all actions to Tobor Inc. With regards to registration, this includes any new users, any updates that may need to happen to their accounts, or lastly if they wish for an account deletion.

The content aggregated is to be from three separate websites at minimum, and to be formatted in such a way to be easily readable by the user who has signed up for the service. There is also need for different content types to be collected, those being sport, tech or hobbies.

Finally, the report is to include any user changes, the content collected and the users who received the content formatted.

2 State of Project

As it stands, all the process listed are performed manually by Roberto and his team. The aim is to have all of these automated to free their workload within Tobor.

First Name	James
Last Name	Harper
Address	12 Indigo Lane
	Hull
	HL2 0BR
	United Kingdom
Telephone	+44 07464592836
Email	James.r.harper@hotmail.co.uk
Content Preference	Tech
Interval	Daily

Figure 1: Table used for registration

As was seen in figure 1 Tobor Inc. started out with using a HTML table sent through an email. This has now been adpapted for automation use with each box having an index of zero through to twenty, with the properties tables being zero, two, four etc... and the information being one, three, five etc... These tables can now be used as the standard format, as before, but with the robot calling the required index.
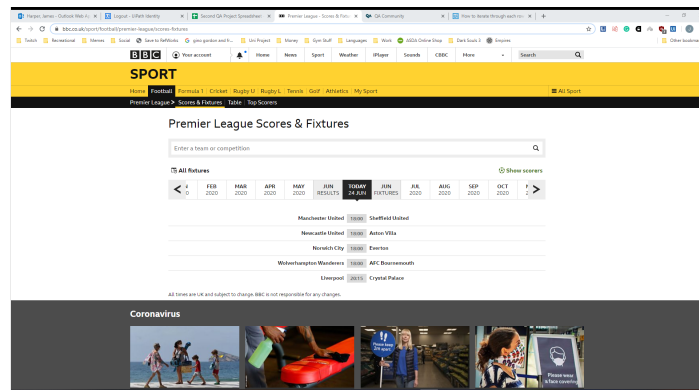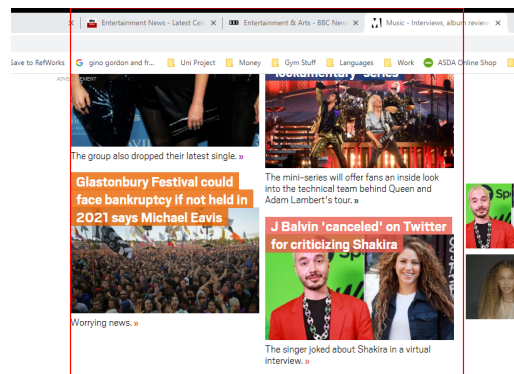
Figure 2: Example Page that was scanned

Figure 3: Second example Page that was scanned

Figure 2 and 3 show example pages that were scanned by UIPath. Both demonstrate the process used to pick up data and the thought process that went behind choosing the websites. This is shown by using websites that had tabular data, making for easier pick ups by UIPath. This enables not only an easier report collection as this can then be stacked into a secondary table per piece of news reported, but also allows for easier email formatting, enabling a smoother content delivery.
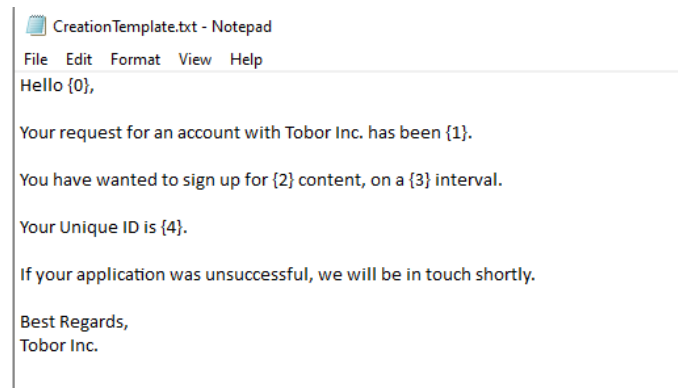
Figure 4: Example of an email template used

Figure 4 is one of the many email templates that have been set up for this automation. They have been created with the intent of speeding content delivery for the user and to provide an easily formattable environment for not only the RPA maintainer to go through, but it also allows for a clearer detail delivery to the user.
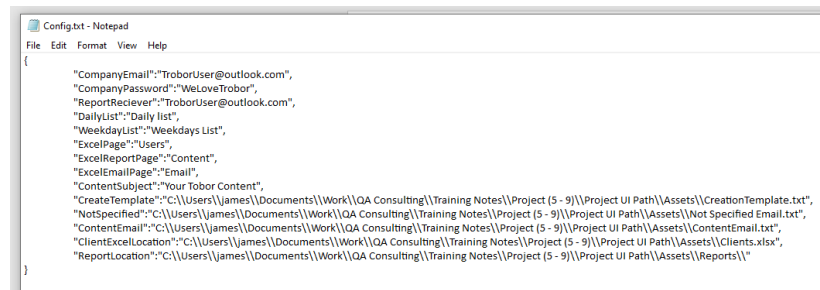

Figure 5: Example of a config file used

Figure 5 can show how the RPA solutions developed can be intended for long term use, and not just while they have an active developer on the site. Config files such as this help enable the company to maintain the program without having to a) have a knowledge of UIPath, and b) go inside of the UIPath application.

Figure 6: Part one of an example report .pdf

Figure 7: Part two of an example report .pdf

Both figures 6 and 7 show the result of the report output. This can now be automatically done by the program, and allows for a consistent keeping of records, unlike prior to the automation.

3   Benefits

Step	Time Consumed (m)
New Registration	15 per user
Content Aggregation	120
Content Send Off	10
Report Collating	15 per user

As discussed in the prior chapters, the enabling of automation helps Tobor Inc. reduce the time investment by their staff. This can be summarised by the table seen. The usual daily users that were requesting content could be up to and around 50 people, which as seen by the table means a lot of time was used, hence the introduction of the automated process.

In addition, allowing staff to work on other areas of the business instead of collating this data means that Tobor Inc. will have an excess of resources available for other areas of the business.

4 Challenges

Unfortunately, automating a series of tasks such as these can come with its own issues. For example, if a website changes their layout, any of the files get corrupted or change location, or even if the program is moved to a cloud resource instead of being hosted locally. Luckily, these are all address in the risk assessment given within this document.