

{EPITECH.}

LE FUTUR DE L'INFORMATIQUE  
LE MEILLEUR DE L'INNOVATION

AJHOME

# B-PRO-600

# Internship Report

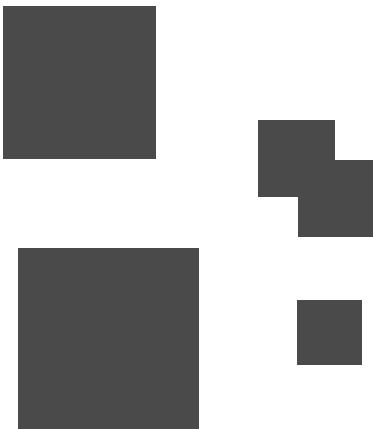
AJ HOME



01/04/21 - 13/08/21

INTERNSHIP REPORT  
BRUNO CAZABAT

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The objective of your periods of professionalization is to develop both your technical skills, namely those related to your interpersonal and communication skills.

You are expected to develop your leadership through qualities such as curiosity, adaptability, listening, empathy, benevolence and motivation.

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# 1- PREFACE

CURRENTLY, I AM IN MY THIRD YEAR AT EPITECH, AND TO CLOSE OUT MY THIRD YEAR, I HAD TO DO AN INTERNSHIP LASTING BETWEEN FOUR AND SIX MONTHS.

THE GOAL OF THIS INTERNSHIP IS TO MAKE ME DISCOVER THE WORLD OF WORK, APPLY MY LEARNING IN A CONCRETE CASE AND MAKE ME DISCOVER NEW TECHNOLOGIES.  
AFTER LOOKING FOR A COMPANY FOR THREE WEEKS, I DISCOVERED AJHOME.

IMMEDIATELY, I THOUGHT THAT THEIR PROJECTS WERE INTERESTING.

THE MANAGER OF THE COMPANY EXPLAINED TO ME A LOT OF THINGS HE WANTED ME TO DO AROUND HIS MARKETPLACES.  
MY INTERNSHIP BEGAN THE 1ST OF APRIL 2021 AND ENDED THE 13TH OF AUGUST.

# 2- RECOMMENDATIONS

FIRST OF ALL, I REALLY WANT TO THANK JEREMY ATTAR FOR ACCEPTING ME AS AN INTERN IN HIS COMPANY AS WELL AS THE WHOLE AJ HOME TEAM WHICH GAVE ME A HEARTWARMING WELCOME.

I ALSO WANT TO THANK FLORENCE HOAREAU, MY INTERNSHIP SUPERVISOR, WHO WAS ALWAYS PRESENT TO HELP ME WHEN I NEEDED IT AND FOR HAVING CONFIDENCE IN MY SKILLS.

THANKS TO EVERYONE I MET, THE WHOLE TEAM MADE MY INTERNSHIP A REAL PLEASURE, EVERY DAY WAS SPENT IN A GOOD MOOD.



# 3-

# SECTION 1

AJ HOME

This section is destined to a new employee in the company where you spent your internship: he/she will be taking over the project on which you've worked. You'll have to describe the context of the company, the project, the overall architecture of what you did, and the organization of the team. You are expected to write enough to inform your recently hired colleague (as a landmark, consider that under 3000 words, it'd be really difficult to convey all the information, unless you are really good at being efficiently concise).

# DISCLAIMER

THIS SECTION IS MAINLY DESTINED TO AN EMPLOYEE WHO WILL BE TAKING OVER THE PROJECT I HAVE WORKED ON.

ITS PURPOSE IS TO DESCRIBE THE CONTEXT OF THE COMPANY, TO EXPLAIN THE ORGANIZATION OF THE TEAM, TO EXPLAIN, TO EXPLAIN THE PROJECT I HAD TO DO AS WELL AS THE OVERALL ARCHITECTURE OF THE PROJECT, TO EXPLAIN HOW TO CONTINUE WHAT I HAVE STARTED AND TO BE SURE TO STAY IN THE RIGHT DIRECTION.

SINCE I DO NOT KNOW WHO WILL TAKE OVER, I WILL WRITE THIS REPORT AS IF I WERE DIRECTLY TALKING TO YOU TO MAKE THE TRANSITION EASIER.

# CONTEXT OF THE COMPANY

For starters, AJHOME is an independent company created in 2010 which was based in Marseille in the south of France. But, due to a fire, the company had to relocate in Aubagne, 20km away from Marseille.

As you probably guessed with all pictures of this internship report, AJHOME is a company specialised in the sales of synthetic grass and artificial hedges.

All synthetic grass and artificial hedges are fabricated in Belgium, France and Holland.

After growing for almost 10 years, AJHOME is now working and selling products around all Europe through some well known sellers like LEROY-MERLIN, MON AMENAGEMENT LOISIR and ATOUT LOISIR. The major part of those sales are in the summer because basically customers are willing to get a clean garden during spring and summer without having to cut the grass or trim all hedges.

AJHOME is now in a special spot because average sellings for a year even with the Covid 19 is about 200k euros.

As the day I am writing this report, the AJHOME's team is composed of approximately twenty members (often changing because of internships and temporary workers), here are the core members:

- Jeremy ATTAR - CEO of AJHOME
- Florence HOAREAU - WEBMASTER of AJHOME
- Gaelle DANIELS - Head of Sales of AJHOME
- Anne-Laure ATTAR - Product Consulting of AJHOME
- Dorian FASTMAGE - working for another company but helped me a lot

In those twenty members, 5 are working for the sales and products consulting, 2 are commercials, answerings questions all day for customers in the company showroom.

With Florence HOAREAU and I, we are the only 7 persons working for the IT department of the whole company, doing tasks going from repairing printers to managing products for Marketplaces like Amazon.

In the back of the company we can find a Warehouse, around 10 guys are working in it, preparing delivery and packages of synthetic grass for all our customers.

I have mentioned someone called Dorian previously in the short list of the members, I've been working with all the IT departments of our partners and Dorian has been the one who helped me the most, technically talking, resolving problems and advising me during my internship.



The Front door of AJHOME, leading to the showroom.



The showroom of AJHOME, where customers can try out all the grass and hedges.



# ORGANIZATION OF THE TEAM

Now that you are more familiar with what AJHOME is, I will explain the organization of it, but more specifically, the IT team.

First of all, like I already said in the previous section, AJHOME is divided into different categories. You have the IT branch, the Sales branch, the Customer branch, the Commercial branch, and the Logistic part.

The members of the team you will talk with the most are the Webmaster (Florence Hoareau) as well as the Customer branch team and, last but certainly not least, the CEO (Jeremy Attar) who's always going to tell you about more things to do. The IT team is made up of (ordered from oldest to most recent member):

- Florence HOAREAU - who is in charge of the marketplace Amazon
- Marion DEPARIS - who is in charge of a system called EBP/VESONET for billing.
- Alexandre VILETTE
- Arnaud PEDENON
- Valentin TREMARDI - who was a Freelancer for AJHOME, he worked for the company for 8 month during 2020
- Dorian PLATHEY - Who's working for FASTMAGE (another company) but he's helping a lot to resolve any kind of IT problems in AJHOME

Note: You will also work a lot in collaboration with Janek MEKRI who is working on the product selling branch, he will help you to check if all orders from a specific partner have been successfully imported to our platform, this thing will be explained later in the internship report.

There is not a clear organization among the developing team. Everyone is working on what is needed at the moment. As I am writing this report, the main concern is to make sure that all orders from our partners are processed automatically to our billing platform called EBP.

Another concern is to improve the speed of the creation of expedition request, because we are sending a lot of things to our customers going from synthetic grass to accessories and Lawnmowers thanks to KTO, GEFCO, GEODIS and COLISSIMO who are shipping companies, and sometimes, request for a shipping can take around 10 minutes for a single customer which is way too long when we have 300 customers per days.

As an intern working on the IT part, my missions were quite clear, and I was the only one among the company who had to work between 5 different projects, but I will explain what my project was in the next part.

# ALL PROJECTS

	brunocazabat Ajout des dernières features, projet fini à 90%
 1stpart_ExtractingMailsToEBP	Actualisation du repo
 2ndpart_ResolvingPrestaModulesFailu...	LOG du 02/04/2021 à 14H, analyse des soucis exi
 3rdpart_CreatingKTOPrestaModule	Creation du repo, push des sous-parties et push c
 4thpart_AdditionnalWorkOnAJhome	Creation du repo, push des sous-parties et push c
 EXISTING_CODE_KTOGEFCO	Push work done and scanned existing code from
 quickstart	Ajout des dernières features, projet fini à 90%

As you can see, I had a lot of working directories, you will get full access to my work of course.

So, for the technical part of my internship. After a lot of meeting with Jeremy ATTAR and Florence HOAREAU, my first mission was to create an EDI (Electronic Data Interchange) to help out the customer and selling branch of the company, they used to work on orders they receive from our partners by Email, had to open the PDF file in it and process all informations like the address and products ordered from the customer by hand. I took about 3 weeks of tests to get a clear idea of what I had to do.

The first step I had to do for this project was to convince all our international partners that creating an automated platform would fasten up the process of billing/shipping for everybody.

Our 5 biggest partners are called :

- ATOUT LOISIR, who's selling artificial grass, artificial hedges and accessories in Europe.
- MON AMENAGEMENT JARDIN, who's selling only artificial grass.
- LEROY MERLIN, who sells artificial grass, artificial hedges and accessories in France mainly.
- JARDIDECO, who sells only artificial hedges and accessories in France.
- DISTRICLOS and DISTRIPOOLS, working together and selling artificial grass, artificial hedges.

To give you a little idea of the work, the number of orders processed per year from all our partners is around 75 000. Imagine having to open up 75 000 emails to extract all the information, it can be tiring very fast.

ATOUT LOISIR was our first partner who agreed to automate the whole process. Arnaud PEDENON of the IT team made a suggestion, create a distant server (FTP) with a directory for each partner in which they will send their orders in a CSV file.

Site distant : /atout_loisir/orders_history			
	/		
	ako		
	atout_loisir		
	orders		
	orders_errors		
	orders_history		
	? tracking		
	distrilos		
	jardideco		
	leroy_merlin		
<hr/>			
Nom de fichier	Taille de fi...	Type de fic...	
..			
orders_James_Grass_2021-05-25_16-00-03.csv	611	Fichier CSV...	
orders_James_Grass_2021-05-26_11-00-01.csv	560	Fichier CSV...	
orders_James_Grass_2021-05-26_13-00-02.csv	957	Fichier CSV...	
orders_James_Grass_2021-05-26_15-00-01.csv	560	Fichier CSV...	
orders_James_Grass_2021-05-26_16-00-01.csv	565	Fichier CSV...	

A quick view from the distant server (FTP) with some orders from ATOUT LOISIR.

```
"id_commande_al;id_client;id_adress_client;id_transporteur;client_firstname;client_lastname;
```

Some informations were mandatory for our platform, the customer name per example.

ATOUT LOISIR was our first partner to send their orders by CSV, as AJHOME was already working with a Software called EBP the record their billing, all I had to do was to read all CSV and paste them into EBP but in this process we can't create shipping request.

The second Idea was to read all CSV and paste them in our Pro Website (<https://ajhome.fr/>), where we could create shipping request, and right after, the order freshly imported on our website will be exported to EBP using the EDI called VESONET.

Here is a little diagram of the process :



This is my first project, explained in a diagram.

To import those orders we had to create a Prestashop module that would check every hour all day long for new orders. If the module detects a new order it first checks if it has already been imported or not, this is a simple security to avoid all kinds of duplicates on our websites and later on on EBP. Another thing, the module needs to check if the order is from France, if it comes from belgium per example, it has to be sended to the Product and sales team because it is processed differently, shipping costs are different etc.

The module I've created can be found in the directory /module/ec\_external\_order in the server of the website.

Nom de fichier	Taille de fi...	Type de fic...	Dernière modification	Droits d'ac...	Propriétaire...
..					
controllers		Dossier de ...	14/05/2021 15:31:08	0777	1000 1000
file		Dossier de ...	20/05/2021 13:50:22	0777	1000 1000
invoice		Dossier de ...	14/05/2021 15:31:08	0777	1000 1000
log		Dossier de ...	14/05/2021 15:31:08	0777	1000 1000
translations		Dossier de ...	14/05/2021 15:31:08	0777	1000 1000
views		Dossier de ...	14/05/2021 15:31:08	0777	1000 1000
ajax.php	1 235	Fichier PHP	10/05/2021 11:01:19	0777	1000 1000
config.xml	512	Fichier XML	10/05/2021 11:01:19	0777	1000 1000
config_fr.xml	519	Fichier XML	10/05/2021 11:01:19	0777	1000 1000
ec_external_order.php	50 966	Fichier PHP	22/06/2021 11:03:02	0777	1000 1000
ec_payment.php	250	Fichier PHP	10/05/2021 11:01:19	0777	1000 1000
exemple.csv	1 810	Fichier CSV...	10/05/2021 11:01:19	0777	1000 1000
exemple_invoice.csv	101	Fichier CSV...	10/05/2021 11:01:18	0777	1000 1000

In the screen above you can see the module and its components.

In the controllers directory you will find all PHP files to edit the module in the Prestashop Back Office.

In the file, invoice, log, translations and views directory you'll find basic files that are mandatory for Prestashop to execute the module in different languages / versions.

None of those directory has to be deleted, you can edit of course but removing them will lead to problems.

The biggest part of the code of the module is in the file ec\_external\_order.php, you'll find in it all processes that are reading CSVs of our partners.

The "anti-duplication" security paste the name of orders in a unique SQL table that cannot be erased.

If you need to see the content of this table, write `SELECT * FROM ps_ec_import_order``.

The module is called every 1 hour with a CRON task leading the module to search on the partners server if any new orders have been sended.

On the partner server, you'll see 4 differents directory :

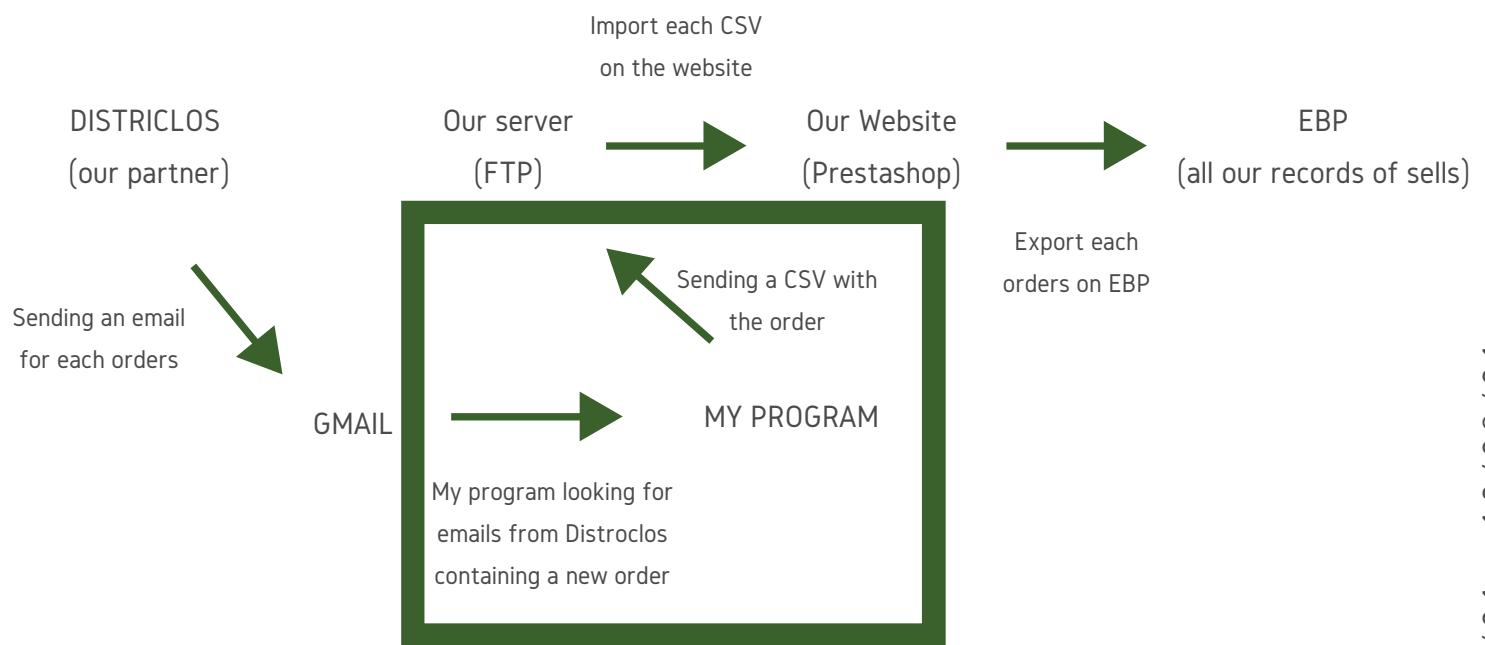
- orders -> Where the CSV is sended by our partner.
- orders\_errors -> Where the CSV will be moved if the module finds an error during the importation.
- orders\_history -> Where the CSV will be moved after a successful importation.
- tracking -> Where the partner will find an XML file containing shipping information of the order.

One of our partners, DISTROCLOS / DISTRIPOLL, one month after the start of my internship, thought it would be too expensive to send us all the CSV by an automated way.

I had a TEAMS call with them and they explained to me that they were using a Software for their billing that was a little too specific, and sending CSV orders would imply at least a 50 000€ dev cost to create such a feature in their software.

Here was my second mission in AJHOME, I had to create a program that would read all mail from DISTROCLOS / DISTRIPOLL containing an order, and after, pick out all informations, create a CSV with those informations and send this CSV to the partner server.

Here a little Diagram explaining the following process :



This is my second project, explained in a diagram.

Il will explain later everything about technologies and architectures of my program.

For this second program, the goal was clear: we had to look for emails every hour containing the keyword DISTROCLOS / DISTRIPOLL / ORDERS and then look again for a duplicate.

After an order is found, the program has to download the PDF bill contained in the order.

With that PDF we got everything we need, address, product, quantity, name of the customer, etc etc.

The difficult part is, the bill contains a lot of useless information like the SIREN number of our partner.

I have worked on the program to make him erase all useless informations and right after generate a CSV with all the content we need, and thus, in the right order because our first project can only read CSV with informations in a right order (the CSV is about 18 columns, if a column is missing the program will put the CSV in the orders\_errors directory)

Here is a friendly reminder about the composition of our CSV files.

- id\_command -> This is the internal reference of the order of our partner.
- id\_client -> A value that doesn't change to identify our partner.
- id\_adress\_client -> A value that doesn't change to identify the billing address of our partner.
- id\_transporteur -> A value that doesn't change to identify the shipping method.
- client\_firstname -> The first name of the customer.
- client\_lastname -> The last name of the customer.
- libelle -> The name of the product ordered.
- libelle\_al -> The name of the product ordered with all sizes summed up.
- libelle\_unit -> The name of the product ordered with all sizes per unit.
- ean -> The 13 numbers code of the product ordered (to identify it).
- quantite -> The quantity of the product ordered.
- addresse1 -> The address of the customer.
- addresse2 -> Additional information of the address (often empty but mandatory).
- code\_postal -> The postal code of the customer.
- ville -> The city name of the customer.
- pays -> The country of the customer.
- tel -> Phone number of the customer.
- tel\_mobile -> Cell Phone number of the customer.

A	B	C	D	E	F	G	H	I
1	id_command	id_client	id_adress_client	id_transport	client_firstname	client_lastname	libelle	libelle_al
2	100080402	6	154917	309	bruno	Cazabat	Haie Artificiel	FG-TFBO-1020
3								
J	K	L	M	N	O	P	Q	R
ean	quantite	addresse1	addresse2	code_postal	ville	pays	tel	tel_mobile
3,6626E+12	1	1 rue de rennes		35230	bruh	FR	671897540	

A typical CSV file with all information we need.

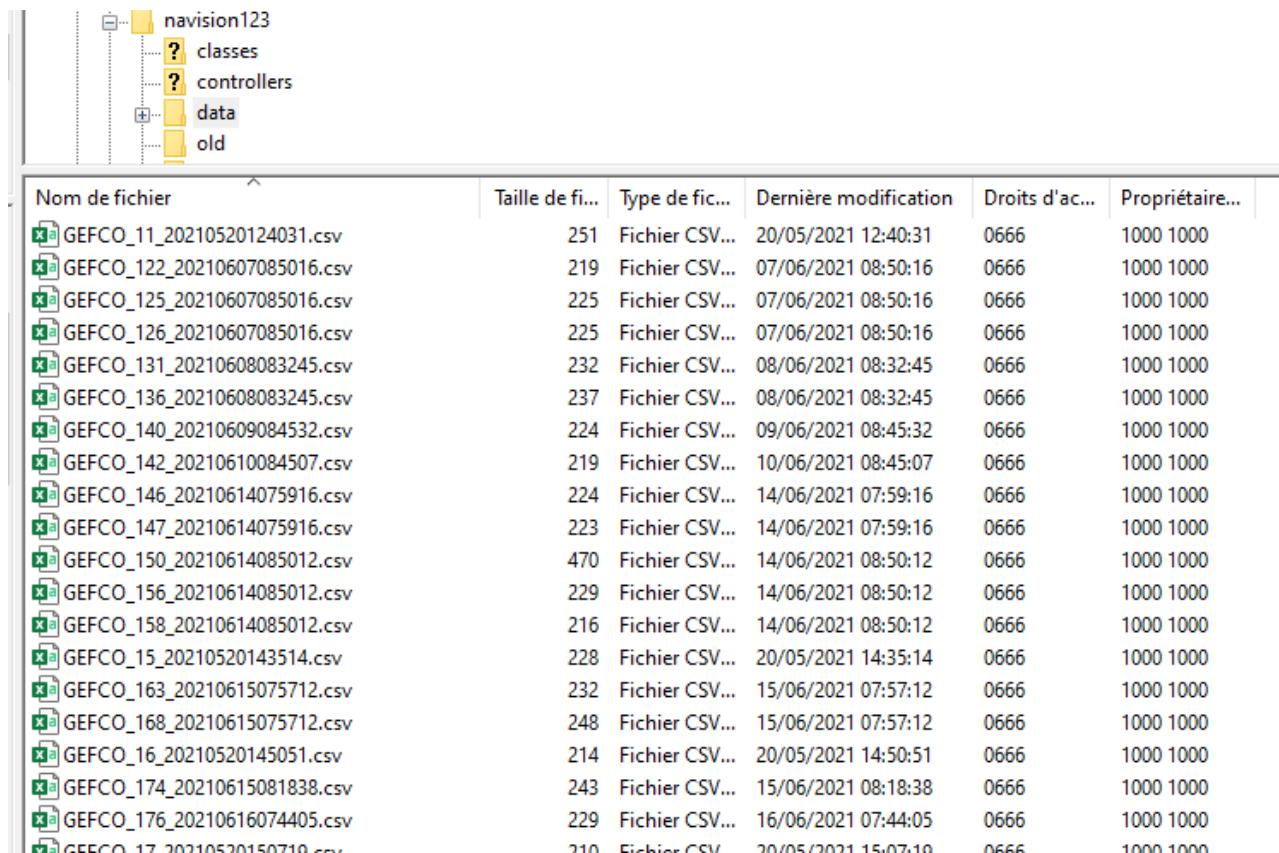
Please be careful, if DISTROCLOS / DISTRIPOLL want to change the object of the Email, or want to change the PDF file containing the order, you will need to check if we still get all our information. This system is fragile in a long term deployment, the program manually deletes all useless things it detects but if our partners add per example "new useless things" into its PDF, the program will malfunction. To finish about this project, all files and the program will be located in the local server at AJHOME, this computer is powered on all day long so my program can launch itself every hours.

For the third project, I had to work on a Prestashop module already created for the Shipping company GEFCO. GEFCO services à requested for almost 60% of all orders of AJHOME. When I started my internship the product and billing team came to ask if I could solve the problem of speed affecting all requests of shipping.

Nothing special about this problem, I've read the code in the module and it's pretty scary. This module has been developed by a company called LAGENCE123 and the man who created the module has been fired during the creation of the module. Nothing was finished and there were a lot of temporary files in the module directory.

All I did was remove all 25000 temporary files located in /modules/navision123/data and the module was way faster.

Here is a little screen of the content of this module after 1 week of use by the product and billing team, you can see a lot of useless files that should have been deleted :



The screenshot shows a Windows File Explorer window. At the top, there is a tree view of the 'navision123' module directory structure, which includes 'classes', 'controllers', 'data', and 'old' folders. Below this, a detailed list of CSV files is shown in a table format. The columns are 'Nom de fichier' (File name), 'Taille de fi...' (File size), 'Type de fic...', 'Dernière modification' (Last modified), 'Droits d'ac...', and 'Propriétaire...'. There are 25 entries listed, each representing a CSV file with a size between 210 and 470 bytes, modified between May 20 and June 2021, and owned by '1000 1000'.

Nom de fichier	Taille de fi...	Type de fic...	Dernière modification	Droits d'ac...	Propriétaire...
GEFCO_11_20210520124031.csv	251	Fichier CSV...	20/05/2021 12:40:31	0666	1000 1000
GEFCO_122_20210607085016.csv	219	Fichier CSV...	07/06/2021 08:50:16	0666	1000 1000
GEFCO_125_20210607085016.csv	225	Fichier CSV...	07/06/2021 08:50:16	0666	1000 1000
GEFCO_126_20210607085016.csv	225	Fichier CSV...	07/06/2021 08:50:16	0666	1000 1000
GEFCO_131_20210608083245.csv	232	Fichier CSV...	08/06/2021 08:32:45	0666	1000 1000
GEFCO_136_20210608083245.csv	237	Fichier CSV...	08/06/2021 08:32:45	0666	1000 1000
GEFCO_140_20210609084532.csv	224	Fichier CSV...	09/06/2021 08:45:32	0666	1000 1000
GEFCO_142_20210610084507.csv	219	Fichier CSV...	10/06/2021 08:45:07	0666	1000 1000
GEFCO_146_20210614075916.csv	224	Fichier CSV...	14/06/2021 07:59:16	0666	1000 1000
GEFCO_147_20210614075916.csv	223	Fichier CSV...	14/06/2021 07:59:16	0666	1000 1000
GEFCO_150_20210614085012.csv	470	Fichier CSV...	14/06/2021 08:50:12	0666	1000 1000
GEFCO_156_20210614085012.csv	229	Fichier CSV...	14/06/2021 08:50:12	0666	1000 1000
GEFCO_158_20210614085012.csv	216	Fichier CSV...	14/06/2021 08:50:12	0666	1000 1000
GEFCO_15_20210520143514.csv	228	Fichier CSV...	20/05/2021 14:35:14	0666	1000 1000
GEFCO_163_20210615075712.csv	232	Fichier CSV...	15/06/2021 07:57:12	0666	1000 1000
GEFCO_168_20210615075712.csv	248	Fichier CSV...	15/06/2021 07:57:12	0666	1000 1000
GEFCO_16_20210520145051.csv	214	Fichier CSV...	20/05/2021 14:50:51	0666	1000 1000
GEFCO_174_20210615081838.csv	243	Fichier CSV...	15/06/2021 08:18:38	0666	1000 1000
GEFCO_176_20210616074405.csv	229	Fichier CSV...	16/06/2021 07:44:05	0666	1000 1000
GEFCO_17_20210520150710.csv	210	Fichier CSV...	20/05/2021 15:07:10	0666	1000 1000

You will have to remove all those CSV sometimes, otherwise the module will be slow to use.

At the end of my Internship, when everything was working good, when all orders were imported automatically without any human intervention, my tasks were mainly about maintenance. Managing product stocks on our website, adding or editing products information and prices. Jeremy ATTAR (the CEO of AJHOME) asked me to find the access to olds Facebook and Instagrams accounts where they used to expose their product. Basically, few students came at AJHOME for an internship and even an Communication agency used to share content on social networks. But the reason why Jeremy ATTAR asked me about social networks is because they've losted all access (emails and logins), none of the students gave back all access information so I had to recover all email addresses and passwords.

Il had some work to do because one of the Facebook accounts was bugged really badly. All features weren't working and it was an empty account.

This bugged account was managing a page (Gazons-synthétiques.net) we had to keep because there were a lot of fans following this page. After 2 days of searching I found a method allowing me to change the admin of this page so I could delete this bugged account right after !

I've given all permissions of this page to the Facebook account called AJHOME. Job done.

The screenshot shows a list of managed Facebook pages:

- Sweepy-Grass.com**: Site web maison et jardin · 686 mentions J'aime · 751 abonnés. Notifications: 17, Messages: 19.
- Haie-Artificielle.net**: Site web maison et jardin · 0 mentions J'aime · 0 abonnés. Notifications: 1, Messages: 0.
- Gazons-synthétiques**: Site web maison et jardin · 1 663 mentions J'aime · 1 716 abonnés. Notifications: 20+, Messages: 16.

Here is the Facebook profile and all pages you will manage later on.

And that's all for the project explanation part of my Internship report.

I'm not going to talk about smaller tasks I was asked to do, like debugging the internet, repairing printers or having to film a little tutorial "how to install your artificial grass".

If you're joining AJHOME, keep in mind that you will have a lot of things to do and maintain.

Next part will be about Technologies and architectures of all projects.

# TECHNOLOGIES OF ALL PROJECTS

About all the work I did, for the technical aspect :

The first project, the one which consists of importing orders from a distant server (FTP), is a Prestashop module.

If you're new with Prestashop, it is a well known CMS (Content Management System) and most of its basis is coded in PHP. The module I have created is no exception and so, is coded with PHP.

Some knowledge is needed when using this module because it is working with the SQL table of the website AJHOME.fr, most requests are related with the "anti-duplication" system I talked about earlier.

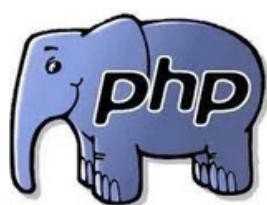
For the second project (the program reading emails from DISTRICLOS) I had to do :

Python is the technology I've chosen to use because this language is powerful, there are a lot of modules available for it and even reading emails is an easy thing in python thanks to the librairie called IMAP.

The code is not that clean but every function is written with a lot of commentaries to help you understand easily how the program works.

The email binded in the program right now is : commandes@france-green.fr

The program launches itself every hour.





The third project, the one who consist of repairing the shipping module of GEFCO  
ISame thing as for the first project, the module is coded in PHP and the code is ""scary""  
because the work hasn't been done entirely. If anything happens with this module, my advice  
to you would be to contact Dorian PLATHEY (dev@fasteo.com) because he has been working  
with the creator of the module and he understands how the module is working.

For the fourth and last project about social networks, nothing special about technology.  
All the work is present on Instagram and Facebook.  
All logins and passwords can be found in the excel file called ALLMDPAJHOME.

# HOW TO CONTINUE WHAT I HAVE DONE

Eventually, adding more partners to AJHOME mean that you will have to explain to all new partners how the system of CSV work.

You'll need to convince all new partners that this system will make them earn time and money because no human intervention is needed.

About the program I created for DISTRICLOS, if you see that no more orders are created on the Back Office of Prestashop AJHOME.fr, it means that maybe DISTRICLOS changed something with their emails disposition/object/content etc.

Being in Python, you'll have no difficulties to print the content of emails in your terminal to debug if anything goes wrong.

Plus, because you can't execute a python program as a CRON task on windows, I've set up the program to work as an EXE program for windows.

you can refer to this technical setup here : <https://datatofish.com/executable-pyinstaller/>

For all social networks (Instagram and Facebook), you'll need to ask Florence HOAREAU for new content and updates to post.

She can ask you to create some visuals for their website, new videos, tutorials etc.  
Nothing too complicated about social networks.

You'll need to keep an eye on imported orders from our partners. Ask the selling team to check if 100% of all orders contain all good information. If you see an error from our modules and programs, ask Nicolas BREDANE or Dorian PLATHEY for help.

If an error occurs on the CSV that our partner is generating, you'll need to contact that partner.

I will thanks again all my colleagues and I hope that this document will help you to work in the IT team of AJHOME.