TREASURER SECTION

Documents generation

Here is how the documents used by the treasurers are generated.

For the "Profits" page:

There are 3 types of invoices:

_ deposit invoices ("FE d'acompte")
_ intermediary invoices ("FE intermédiaire"
_ final invoices ("FE de solde")

Small reminder about all the inflows related to a project, in chronological order:

```
_ Deposit ("Acompte"): 30% of the total price excl. taxes

_ Deliverable n°1: F1

_ Deliverable n°2: F2

_...

_ Deliverable n°k (last one): Fk (Fk includes the price of the last deliverable and the extra charges)
```

So the total price excl. taxes = F1 + F2 + ... Fk

k >=1

There is first one deposit invoice, then one intermediary invoice for deliverable 1 to (k-1), then one final invoice for the deliverable k. If k = 1, there is no intermediary invoice.

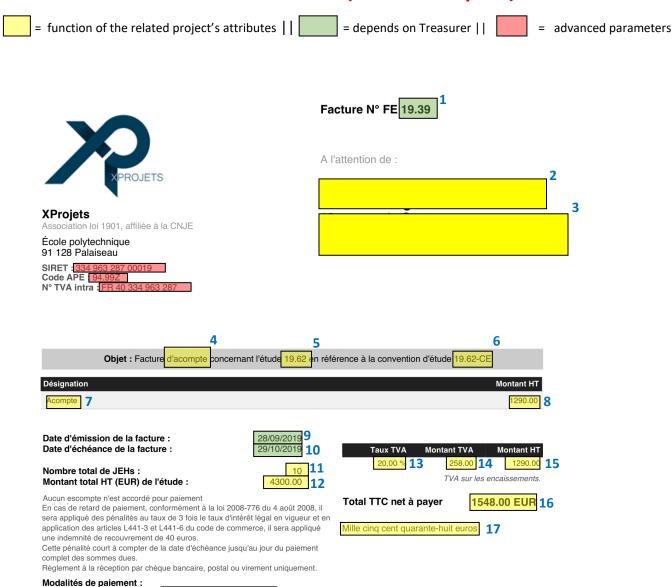
Since there is a deposit of 30%, the amount excl. taxes of the invoice corresponding to the deliverable $n^{\circ}j = 0.7*Fj$

The price **incl. taxes** indicated on the invoice $n^\circ j$:

```
_0.7* Fk * 1.2 if the client is french (TVA rate = 20%)
_ 0.7*Fk if the client is non-french (same as excl. taxes)
```

DEPOSIT INVOICE ("FE d'acompte")

3



Pour un règlement par chèque, nous vous remercions d'envoyer votre règlement accompagné du papillon à l'adresse : XProjets, École polytechnique 91 128 Palaiseau

Paula Charles, Trésorière

RIB: 30004 00086 00010114402 68

Pour les versements

et numéro de facture

Pour les chèques

merci d'indiquer votre nom Domiciliation : BNP Pa

Inputs that are attributes of the related project:

- > string(YY.int) num_project (number of the project. Example : 21.01 for the first project of 2021)
- > string invoice_type ("d'acompte", "intermédiaire" or "de solde", depending on the progress of the project). Here, invoice_type = "d'acompte" since this is the template for deposit invoices.
- int nb_jeh (total number of JEHs of the project)
- float priceHT (total price excl. taxes)
- float priceTTC (total price incl. taxes)
- > string name client (name of the client)
- string address_client (address of the client)
- string TVA_rate (20% if French client, 0% otherwise)

Inputs that come from the Treasurer:

- string(YY.int) invoice_number (all invoices are sorted by date of dispatch like follows: YY.num)
- > DD/MM/YY sending_date (date when the Treasurer reviews and sends the invoice)

Now here are the formula for all the outputs in the invoice :

```
1 = YY.num (example : 21.01 for the first invoice of 2021)
2 = name_client
3 = address client
4 = invoice_type ("d'acompte" here since we are dealing with deposit invoices)
5 = num_project
6 = num_project + "-CE"
7 = "Acompte" (known since we are dealing with deposit invoices here)
8 = 0.3*priceHT
9 = sending_date
10 = sending_date + 1 month
11 = nbJEH
12 = priceHT
13 = TVA_rate
14 = TVA_rate * 0.3 * priceHT
15 = 0.3 * priceHT
16 = 0.3 * priceHT * (1 + TVA_rate)
17 = 0.3 * priceHT * (1+ TVA_rate) in full letters in french (so it is a string)
```

INTERMEDIARY INVOICE ("Facture Intermédiaire")

= function of the re	elated project's attributes	= depends on Treasurer	= advanced param
		Facture N° FE 19.48	
XPRO		A l'attention de :	
	NETS	2	,
XProjets Association loi 1901, affi	liée à la CNJE		3
École polytechnique 91 128 Palaiseau			
SIRET: 334 963 287 00 Code APE: 94.99Z	019		
N° TVA intra : FR 40 33	4 963 287		
Désignation			Montant HT
Développement de Cit			(8')
Date d'émission de la f	(7') facture: 10/12/2019	9	(8)
Date d'échéance de la		10 Taux TVA Montant TVA	Montant HT
Nombre total de JEHs Montant total HT (EUR		11 20,00 % 13 120.00 TVA sur la	14 5600.00 15 es encaissements.
sera appliqué des pénalités	ent, conformément à la loi 2008-776 du 4 août 2009 au taux de 3 fois le taux d'intérêt légal en vigueur	et en	720.00 EUR 16
une indemnité de recouvrer Cette pénalité court à comp complet des sommes dues.	1-3 et L441-6 du code de commerce, il sera appliq nent de 40 euros. ter de la date d'échéance jusqu'au jour du paieme ar chèque bancaire, postal ou virement uniquemer	nt	
Modalités de paiement Pour les versements			
merci d'indiquer votre nom et numéro de facture	Domiciliation BNP Paribas IBAN FR76 3000 4000 8600 0101 1440 268 BIC BNPAFRPPMAS	Paula Charles, Trésori	ère
Pour les chèques	A l'ordre de XProjets		

Pour un règlement par chèque, nous vous remercions d'envoyer votre règlement accompagné du papillon à l'adresse :

XProjets, École polytechnique 91 128 Palaiseau

Client : FE 19.48 - Net à payer 6720.00 EUR

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Inputs that are attributes of the related project:

- string(YY.int) num_project (number of the project. Example : 21.01 for the first project of 2021)
- > string invoice_type ("d'acompte", "intermédiaire" or "de solde", depending on the progress of the project). Here, invoice_type = "intermédiaire.
- int nb_jeh (total number of JEHs of the project)
- float priceHT (total price excl. taxes)
- float priceTTC (total price incl. taxes)
- (string * float) list Phases (list of the phases related to this invoice, with their corresponding price excl. taxes). In the example above, Phases = [("Développement de Citadelle", 5600.00)]. In the "Désignation" array above, there is one row for each element in Phases. So here there is only one row, but it must be possible to have several ones (let's say up to 10). It is possible to reduce font size if necessary.
- * float invoice_amountHT (the amount of this invoice. Simply equals to the 0.7 * the sum of Phases[k][1] with k between 0 and (length(Phases)-1). IMPORTANT: On the example above, there was no account, so the amount HT is 5600 and not 0.7*5600. With the ERP, we would like to always have an account, so each invoice amountHT will be diminished of 30%. This substraction must appear on the invoice, so that the client sees it. For example, you can add this line in the "Désignation" array, just under the last phase. It could be presented just like a phase, with a name "Acompte" and a negative value of -0.3*(sum of the phases prices). That way, the invoice amountHT would be equal to the sum of the prices written in "Désignation".
- string name_client (name of the client)
- string address_client (address of the client)
- string TVA_rate (20% if French client, 0% otherwise)

Inputs that come from the Treasurer:

- string(YY.int) invoice_number (all invoices are sorted by date of dispatch like follows: YY.num)
- > DD/MM/YY send date (date when the Treasurer reviews and sends the invoice)

Now here are the formula for all the outputs in the invoice :

```
1 = YY.num (example : 21.01 for the first invoice of 2021)
2 = name_client
3 = address_client
4 = invoice_type ("intermédiaire" here since we are dealing with the intermediary invoices)
5 = num_project
6 = num_project + "-CE"
7 = Phases[0][0] (name of the first phase, which is the only one here).
8 = Phases[0][1] (prixe excl. taxes of the first phase).
If there are more than one phase (so length(Phases) >=2), the other rows are logically filled the same way. In the example above, if there were 2 phases for example, we would have 7' = Phases[1][0] and 8' = Phases[1][1]
9 = send_date
```

```
10 = send_date + 1 month

11 = nbJEH

12 = priceHT (WARNING here we have priceHT = invoice_amountHT, but this is a coincidence ).

13 = TVA_rate

14 = TVA_rate * invoice_amountHT

15 = invoice_amountHT

16 = invoice_amountHT * (1 + TVA_rate)

17 = invoice_amountHT * (1 + TVA_rate) in full letters in french (so it is a string)
```

FINAL INVOICE ("Facture de solde")

As we saw, final invoices are just like intermediary invoices, but there are the last one. So the generation is almost the same. The only differences is that:

> invoice_type = "de solde"

For the "expenses" page:

3 type of documents are generated in this section:

- _ Bulletin de Versement (or BV), when we give money to the students who did the missions
- _ **Note de Frais (NDF)** When a member of XProjets have paid for the firm and wants to be reimbursed. For that he has to fill some information and to upload the corresponding invoice on the ERP.
- _ **Facture (FAC)** All the other expenses. We receive an invoice from a supplier.

NOTE DE FRAIS

= function of the information filled by the member		= depends on Treasurer	=	advanced parameters
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XProjets

Association régie par la loi 1901, affiliée à la CNJE

Ecole Polytechnique, Route de Saclay, 91120 Palaiseau

[SIRET: 334 963 287 00019 - Code APE: 94.99Z - N°URSSAF: 910 120168408001011 10 - N° TVA Intracom.: FR40 334 963 287]

Note de frais N°19.18 1

NOM:	Kobanda	2
PRENOM:	Anthony	3
DATE:		18/12/2019 4
MOTIF DE L	A NOTE D	E FRAIS : Carte de vœux Noël 5

N°*	Désignation	М	ontant HT	TYPE TVA	TVA (20%)	TVA (10%)	TVA (5,5%)	Montant TTC	_
1	Carte de vœux		66,76	20,0%	13,36	0		80,12	
2	Enveloppes		1,02	20,096	0,2	0	0	1,22	7
	TOTAL		67,78		13,56			81,34 €	
			8		9			10	

Le demandeur,
Anthony Kobanda

L'approbateur (resp de pôle), Théophile Denys de Bonnaventure

Paula Charles

Inputs coming from the member who asks for the NDF:

- > string name_member (the name of the member)
- > string motif (reason for the expense)
- ➤ The member basically fills by hand the array called "Désignation. He can enter as many rows as he wishes, and provides 3 inputs per row: string name, float montant HT, and TVA (which is 20, 10, or 5.5%). The last entry (called Montant TTC) can be automatically calculated with montantHT*(1+TVA). The total prices at the bottom of the array are also automatically filled.
- > DD/MM/YY request_date when the member asks for the NDF

Inputs coming from the treasurer:

> YY.int NDF_num each NDF are given a number by date of creation, 21.02 for the second NDF of 2021.

```
1 = NDF_num
2 = member last name
3 = member first name
4 = request_date
5 = motif
6 = first line filled by the member
7 = second line filled by the member (....as many lines as the member wants)
8 = sum of the above
9 = sum of the above
10 = sum of the above
11 = first name + last name
```

BULLETIN DE VERSEMENT



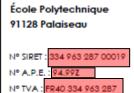


Xprojets

XPROJETS
Junior-Entreprise - École Polytechnique

Bulletin de Versement







Cyril Voisard

lvd des Maréchaux

 N° étude :
 19.55
 6

 Ref du RDM :
 19.55-RDM.01
 7

 Type de travail :
 Intervenant

 Rémunération brute :
 520.00
 9

 Nombre de jours-étude :
 2
 10

 Base U.R.S.S.A.F. :
 40.6

 Assiette de cotisations :
 81.2
 12

COTISATIONS	RASE		BASE			Part Junior					Part Etudiant			
ET CONTRIBUTIONS SOCIALES		DASE		TAUX		MONTANT		TAUX		MC	DNTANT			
SANTE					_									
Sécurité sociale - Maladie Maternité Invalidité Décès		81	.2		1	3.00%			10.56		0,00%		0,00	
ACCIDENTS DU TRAVAIL - MALADIES PROFESSIONNELLES		81	.2			1.30%			1.06					
RETRAITE	12													
Sécurité sociale plafonnée TA	'	81	.2			8.55%		13	6.94		6.90%		5.60	
Sécuriré sociale déplafonnée		81	.2			1.90%			1.54		0.40%		0.32	
FAMILLE	Τ.	81	.2	.		5.25%			4.26					
ASSURANCE CHÔMAGE		520	00.0	П		4.20%			21.84		0,00%		0,00	
AUTRES CONTRIBUTIONS DUES PAR LA JUNIOR	Ľ	81	_		0	.416%			0.34					
CSG déductible de l'impôt sur le revenu	1	281	.2							Ĺ.,	6.80%		5.52	
CSG/CRDS non déductibles de l'impôt sur le revenu		81	.2								2.90%		2.35	
EXONERATIONS DE COTISATIONS JUNIOR													0	

TOTAL DES COTISATIONS DUES (indexées sur l'assiette de cotisation)	30.12%	24.4	5	17.00%	1	3.80
TOTAL DES COTISATIONS DUES (indexées sur la rémunération brute)	4.20%	21.8	4	0,00%		- €

TOTAL DES COTISATIONS part Junior	46.54
TOTAL DES COTISATIONS part étudiant	13.80
TOTAL DES COTISATIONS part Junior + part étudiant	60.34

Rémunération Brute	520.00
Total Retenues étudiant	13.80
MONTANT NET PAYE EN EUROS	506.20
dont évolution de la rémunération liée à la suppression des cotisations chômage et maladie	11.71
Allègement de cotisations Junior	0,00
Montant net imposable (net + C.S.G. Non déd)	508.55

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Inputs that are attributes of the related project:

- string(YY.int) num_project (number of the project. Example : 21.01 for the first project of 2021)
- > int nb_jeh_interveningstudent (number of JEHs worked by this intervening student on the project)
- > string name interveningstudent (name of the intervening student)
- > string address_interveningstudent (address of the intervening student)
- > int socialinsurancenb interveningstudent (social insurance number of the intervening student)
- string(num_project-RDM.int) num_RDM_interveningstudent (RDM « récapitulatif de mission » number of the intervening student). Every individual making money on the project will have a RDM. (Ex : first interv. stud. 20.03-RDM.01 second interv. stud. 20.03-RDM.02).

Inputs that come from the Treasurer:

- string(YY.int) bv_number (all bvs are sorted by date of dispatch like follows: YY.num)
- > DD/MM/YY payment_date (date when the Treasurer reviews and pays the intervening student)

Now here are the formula for all the outputs in the invoice :

```
1 = YY.num (example : 21.01 for the first BV of 2021)
2 = payment_date
3 = name_interveningstudent
4 = address_interveningstudent
5 = socialinsurancenb_interveningstudent
6 = num_project
7 = num_RDM_interveningstudent
9 = nb_jeh_interveningstudent * 260
10 = nb_jeh_interveningstudent
12 = nb_jeh_interveningstudent * advanced parameter just above (in red)
13 = input (in yellow) * advanced parameter (in red) (by line)
14 = input (in yellow) * advanced parameter (in red) (by line)
```

For all other fields, it's just simple formulas which you can get in the BV template.