



INP-ENSEEIH  
Département sciences du numérique

# Internship Report on Web development

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# Abstract

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This report details a summer internship at **GEBS** (Global electronic business solutions) based in Morocco. I was beyond grateful to work within this organization where I had the opportunity to develop a website for leave management using several programming languages for both backend and frontend design in order to provide a fluent leave management system to Human resources department and GEB's employees as well. This report will take us through all the process of Website design knowledge and experience gathered during this internship period.



# Acknowledgment

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A special thanks to Mr. Abrghaaz the president of **Global electronic business solutions** for giving me the opportunity to work within the organization.

I would like to take this opportunity to express my gratitude to Mr. Zakraf as well that has been a source of inspiration and constant guidance as my intern trainer. Without his suggestions, trust, and encouraging support this report would have been nowhere near completion.

To all the interns, who were present during my internship period, with whom I collaborated directly or indirectly I offer to each and every one of you my earnest admiration.

Finally, I owe my deepest gratitude to all my teachers at **ENSEEIH** who prepared us for this endeavor. I owe you all my success.



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# Introduction

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## *About GEBS:*

GEBS is a Moroccan company created in 2010 by engineers who studied in Germany with extensive experience in the NTIC field. GEBS develops excellent management software for the pharmaceutical sector; in addition GEBS is a certified distributor of PRINTRONIX & Tally Genicom matrix printers in Morocco, which replace IBM printers. They market computer products of renowned deferent brands.

## *Roles and responsibility:*

Every company must have a leave management system in place, a software that tracks records of every employee's leaves. In order to ensure smooth operations related to monitoring and managing leave, I was charged to design and develop a website that automates annual leave management processes making it simpler for both employees and employers.

# Web design

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## *Software requirements:*

During my six weeks internship training, I had the opportunity to use various tools and technologies which were new for me, but were unfortunately a push towards a successful career.

The programming languages used are listed below:

### **HTML**



HTML stands for Hyper Text Markup Language. It's the standard markup language for creating Web pages.

### **CSS**



Cascading Style Sheets, is a simply designed language intended to simplify the process of making web pages presentable.

### **JS**



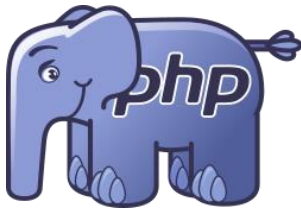
JavaScript is a lightweight, cross-platform and interpreted scripting language. It's well known for the development of web pages.

# Web design

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Bootstrap is a free front-end framework for faster and easier web development · Bootstrap includes HTML and CSS based design templates for typography, forms, tables



PHP is a server scripting language, and a powerful tool for making dynamic and interactive web pages.

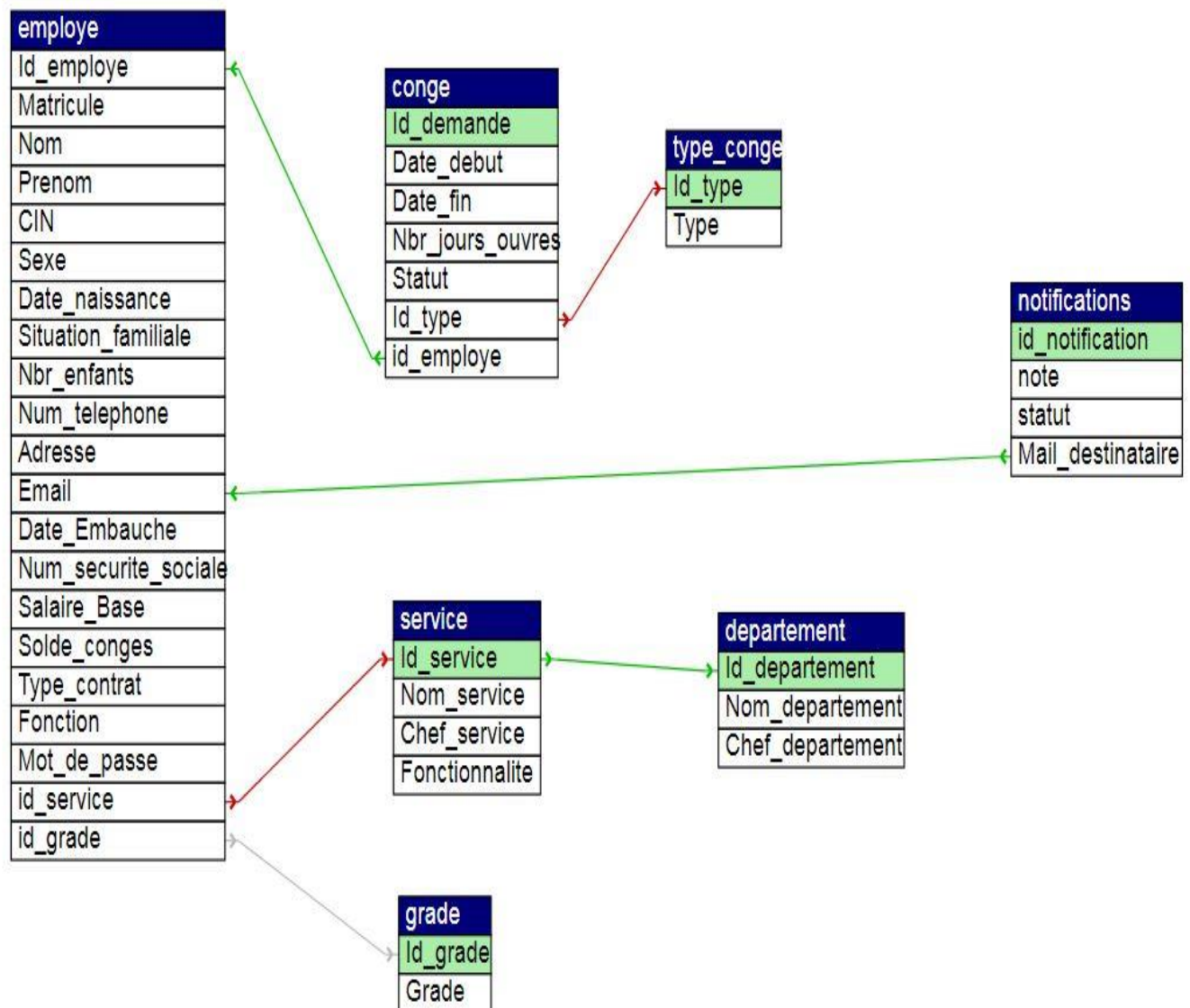


PhpMyAdmin is a free software tool written in PHP, intended to handle the administration of MySQL over the Web.

# Web design

*Database implementation:*

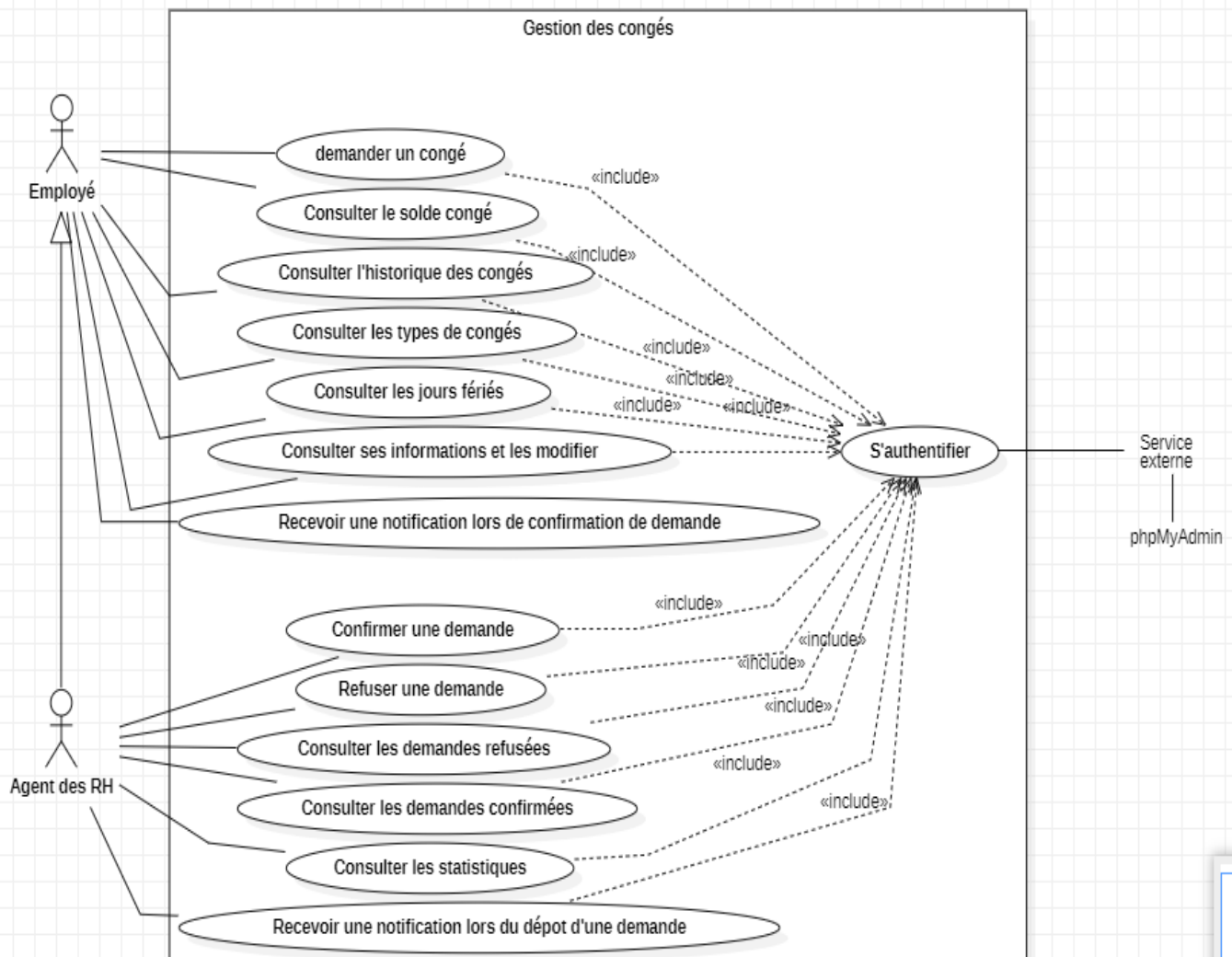
- *MCD diagram:*





# Web design

- *Use case diagram:*



# Web design

## *Website's description:*

- Login page

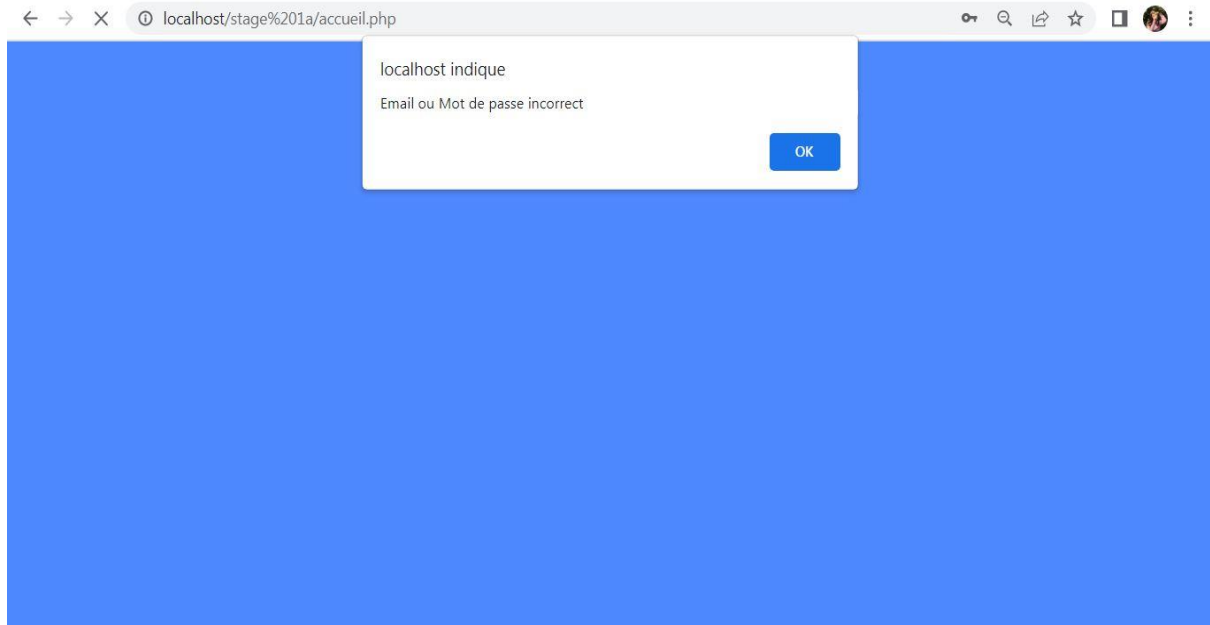


By clicking on button “connexion” a login popup is generated where the user has to enter his mail address and password:



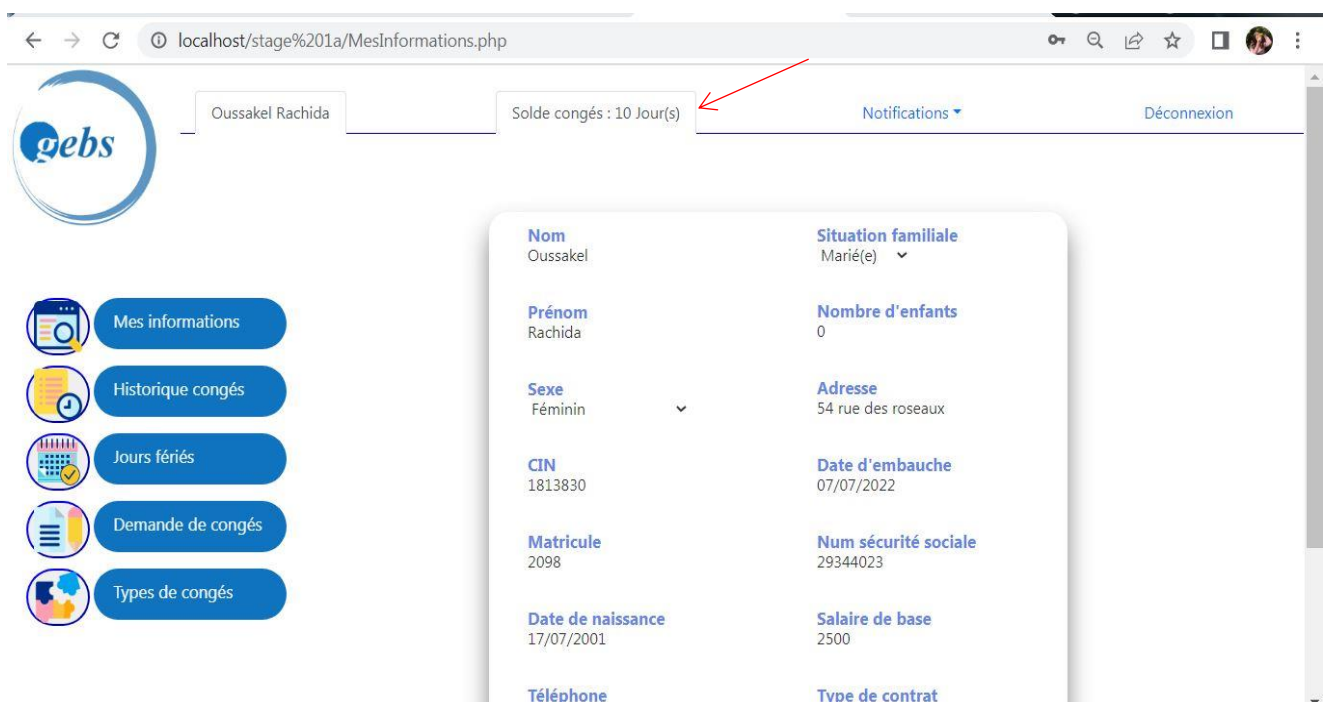
# Web design

If the information needed isn't correct an alert box is displayed:



Otherwise, the home page is opened:

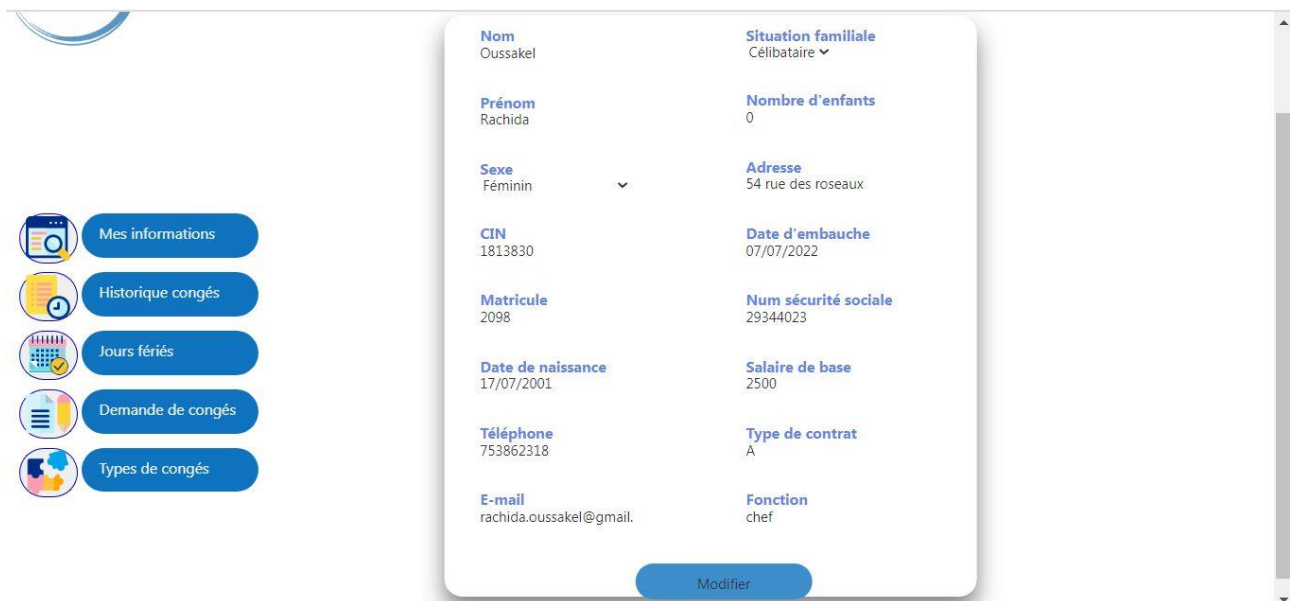
*For employees:*



# Web design

Home page contains mainly the employee's leave balance and other information which cannot be modified except "Phone number", "Family situation", "children's number", "home address" and "E-Mail".

For instance, modifying my "family situation" from married to single and clicking on the button below "modifier" will automatically modify the employee's data in PhpMyAdmin:



The screenshot shows a web interface for an employee's profile. On the left is a vertical menu with five blue buttons: "Mes informations", "Historique congés", "Jours fériés", "Demande de congés", and "Types de congés". The main area displays a form with two columns of information. The left column contains: Nom (Oussakel), Prénom (Rachida), Sexe (Féminin), CIN (1813830), Matricule (2098), Date de naissance (17/07/2001), Téléphone (753862318), and E-mail (rachida.oussakel@gmail.com). The right column contains: Situation familiale (Célibataire), Nombre d'enfants (0), Adresse (54 rue des roseaux), Date d'embauche (07/07/2022), Num sécurité sociale (29344023), Salaire de base (2500), Type de contrat (A), and Fonction (chef). A blue "Modifier" button is at the bottom center of the form.

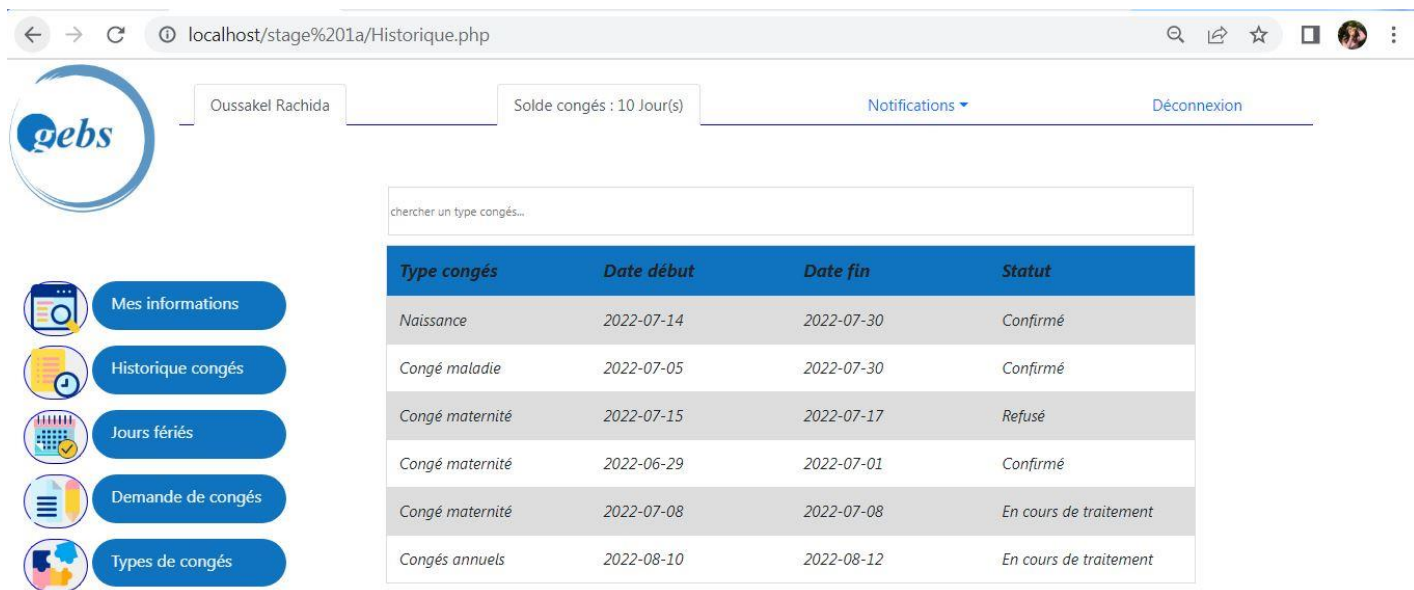
Nom	Oussakel	Situation familiale	Célibataire
Prénom	Rachida	Nombre d'enfants	0
Sexe	Féminin	Adresse	54 rue des roseaux
CIN	1813830	Date d'embauche	07/07/2022
Matricule	2098	Num sécurité sociale	29344023
Date de naissance	17/07/2001	Salaire de base	2500
Téléphone	753862318	Type de contrat	A
E-mail	rachida.oussakel@gmail.com		
		Fonction	chef

Modifier

The home page contains also a scrollable menu bar on left which englobe the entire website's features:

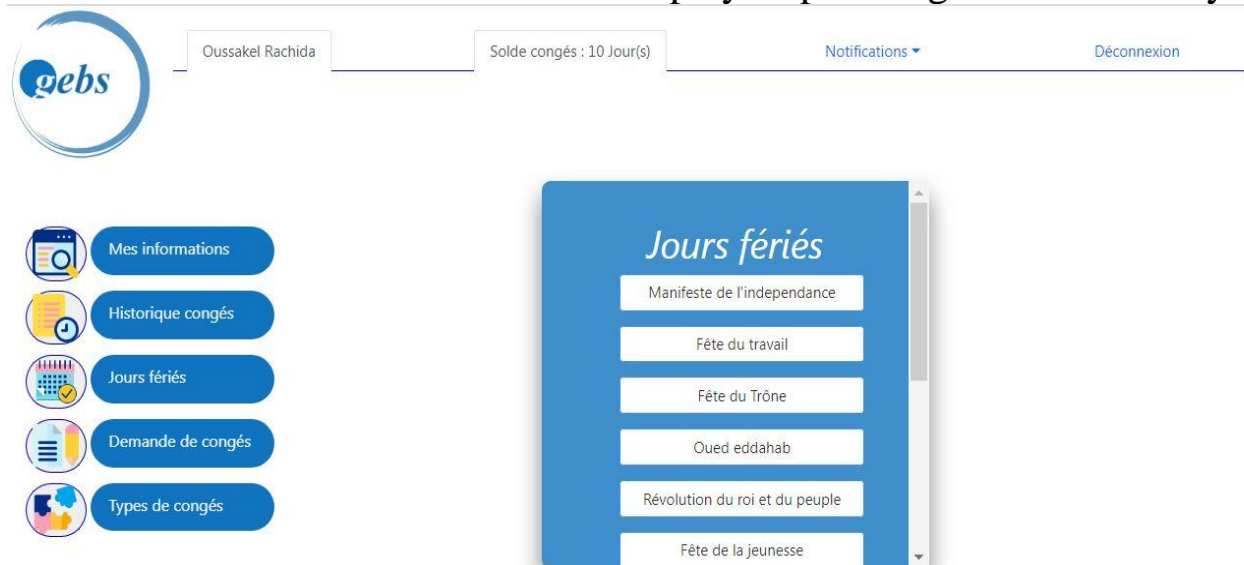
# Web design

A click on the button “Historique congés” will display a table which contains all employees’ requests for leave with their type, the requested period and the status (approved/rejected or in process):



Type congés	Date début	Date fin	Statut
Naissance	2022-07-14	2022-07-30	Confirmé
Congé maladie	2022-07-05	2022-07-30	Confirmé
Congé maternité	2022-07-15	2022-07-17	Refusé
Congé maternité	2022-06-29	2022-07-01	Confirmé
Congé maternité	2022-07-08	2022-07-08	En cours de traitement
Congés annuels	2022-08-10	2022-08-12	En cours de traitement

A click on the button “Jours fériés” displays a planning of bank holidays,



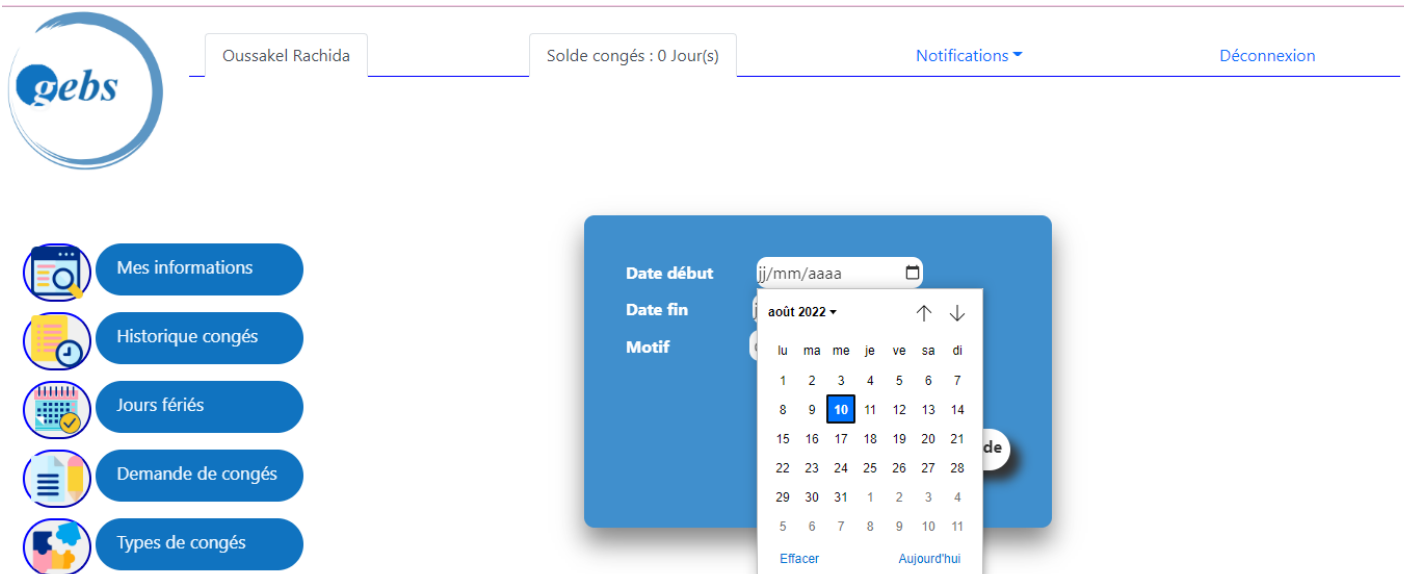
### Jours fériés

- Manifeste de l'indépendance
- Fête du travail
- Fête du Trône
- Oued eddhab
- Révolution du roi et du peuple
- Fête de la jeunesse

# Web design

Applying for leaves can include a lot of paper usage which seems to be a tough challenge for most companies where the HR management is based on manual and analog techniques. Here the automation comes handy as the applications are handled online:

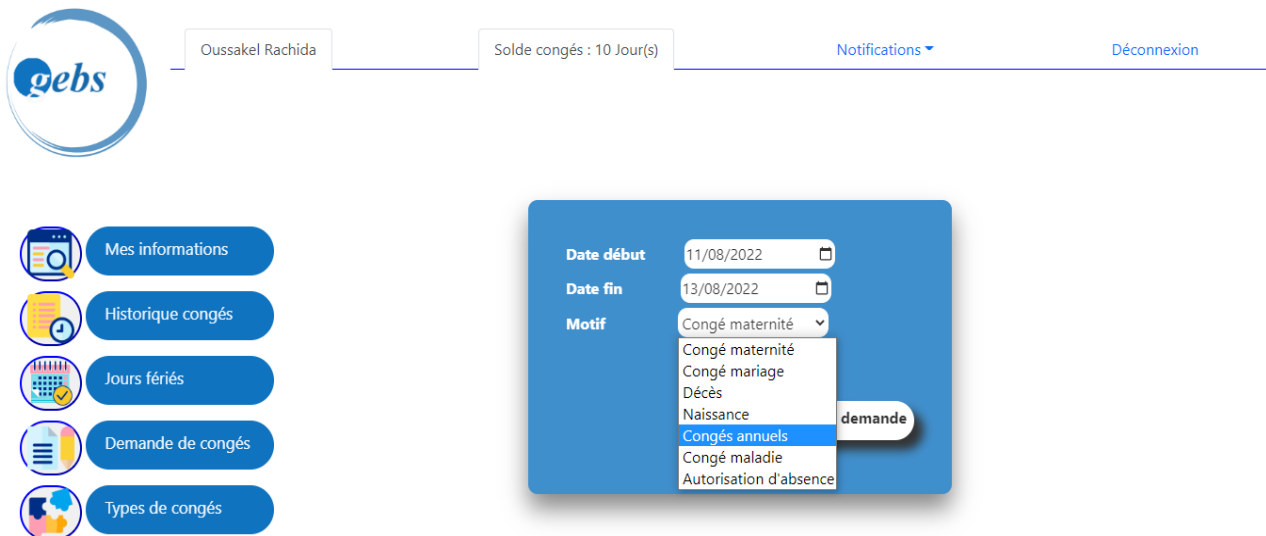
- + Click on the button “Demande de congés”
- + A form will be displayed
- + Select the start and final dates



The screenshot shows the GEBS web application interface. At the top, there is a header with the GEBS logo, a user profile section for 'Oussakel Rachida' with a 'Solde congés : 0 Jour(s)' indicator, and links for 'Notifications' and 'Déconnexion'. Below the header, a sidebar on the left contains five menu items: 'Mes informations', 'Historique congés', 'Jours fériés', 'Demande de congés', and 'Types de congés'. The main content area displays a form for requesting leave. The form has three sections: 'Date début', 'Date fin', and 'Motif'. The 'Date début' field is active, showing a date picker for August 2022. The date picker is a calendar grid where the 10th of August is selected. The 'Date fin' field is also visible but not active. The 'Motif' field is empty. At the bottom of the date picker, there are buttons for 'Effacer' and 'Aujourd'hui'.

# Web design

+ Select a leave's type:



The screenshot shows the GEBS web application interface. At the top, there is a header with the GEBS logo, the user name "Oussakel Rachida", the leave balance "Solde congés : 10 Jour(s)", and links for "Notifications" and "Déconnexion". On the left side, there is a sidebar with icons and labels for "Mes informations", "Historique congés", "Jours fériés", "Demande de congés", and "Types de congés". The main content area displays a form for requesting leave. The form has fields for "Date début" (11/08/2022), "Date fin" (13/08/2022), and "Motif". The "Motif" dropdown menu is open, showing options: "Congé maternité", "Congé maternité", "Congé mariage", "Décès", "Naissance", "Congés annuels" (which is highlighted), "Congé maladie", and "Autorisation d'absence". A "demande" button is visible next to the dropdown.

+ Click on “Déposer ma demande”



The screenshot shows a web browser window with the address bar displaying "localhost/stage%201a/Demande.php". A modal dialog box is displayed in the center of the screen with the text "localhost indique" and "Votre demande a été bien déposée". There is an "OK" button at the bottom right of the dialog box.

! If the selected dates are mismatched an alert is displayed:

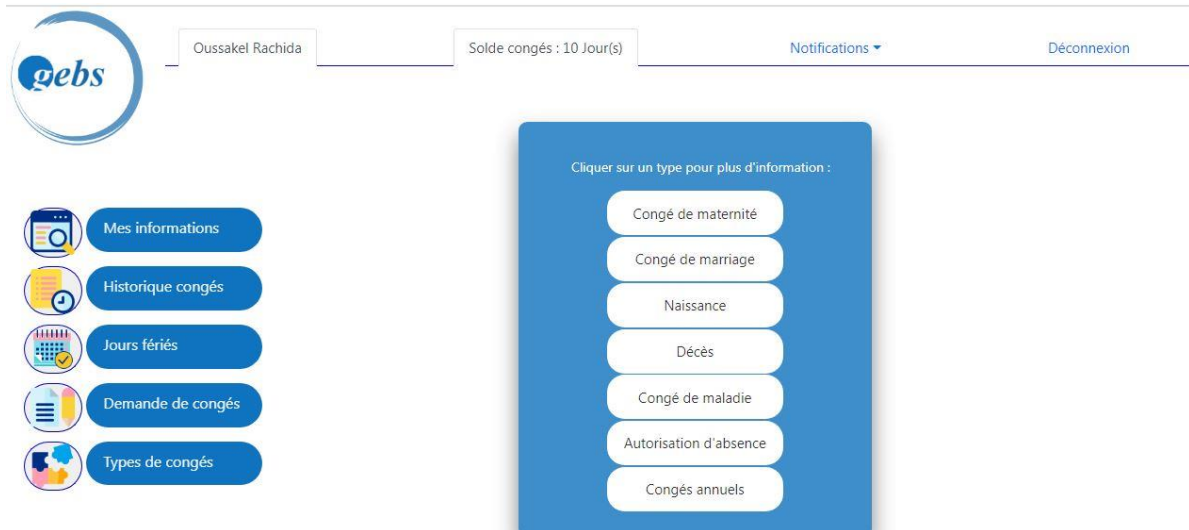


The screenshot shows a web browser window with the address bar displaying "localhost/stage%201a/Demande.php". A modal dialog box is displayed in the center of the screen with the text "localhost indique" and "Entrez des dates valides". There is an "OK" button at the bottom right of the dialog box.



# Web design

Click on “Types congés”:



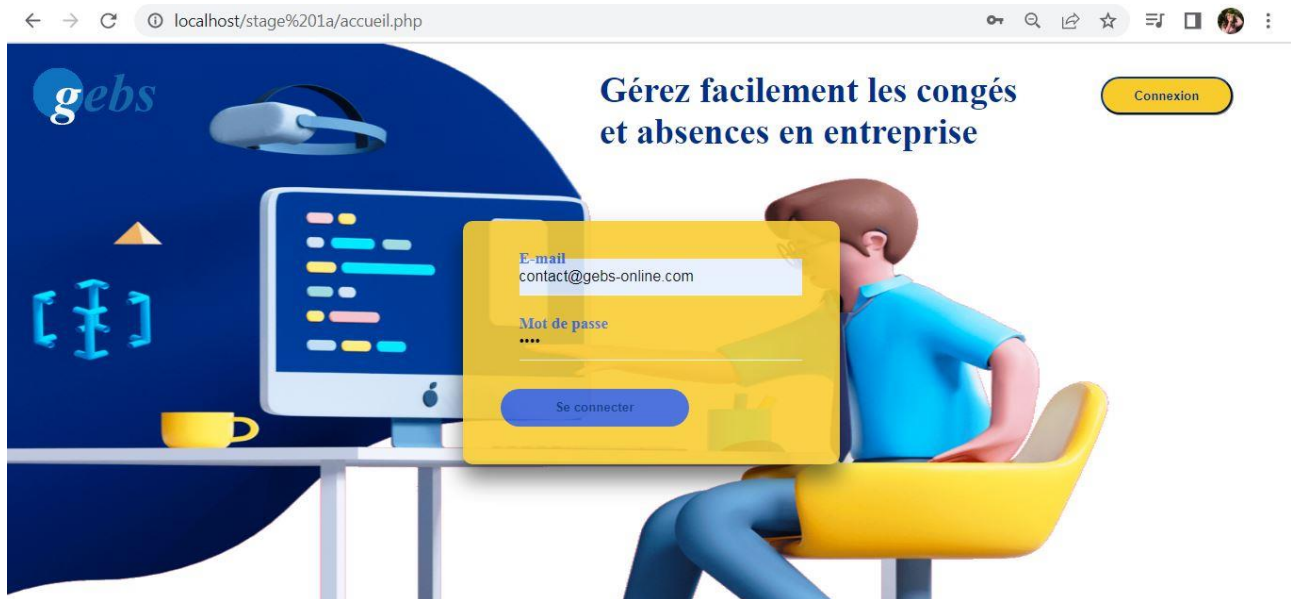
If you click on a specific type you get information about the leave; if it's either paid or unpaid and how many days you have the right to take off.



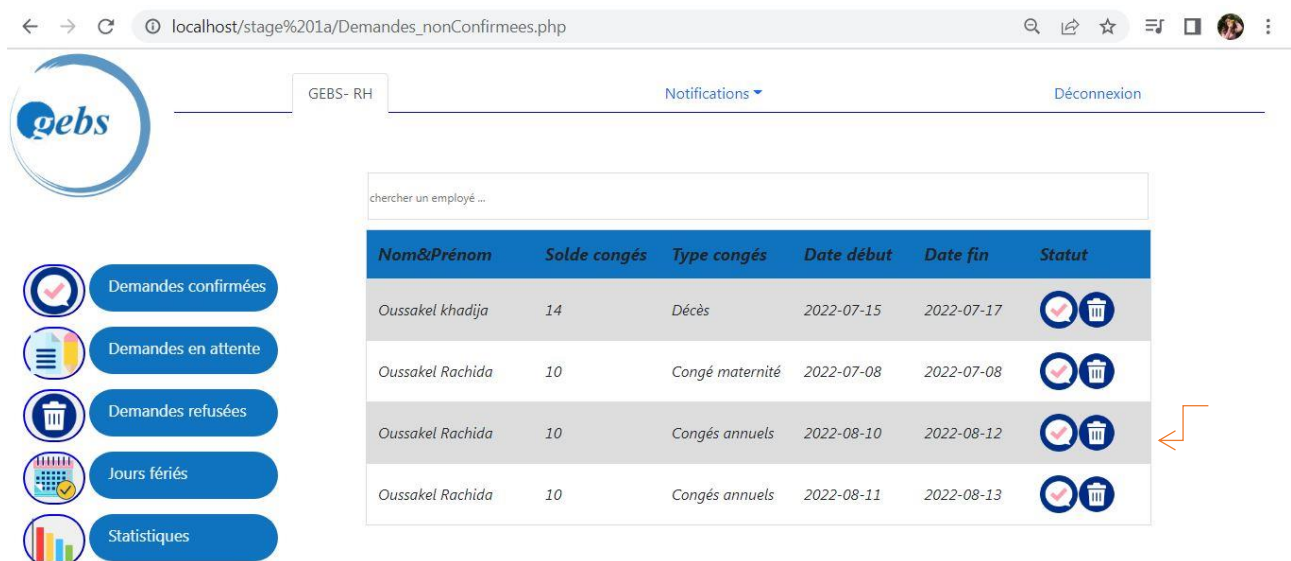


# Web design

*For GEBS's HR managers:*

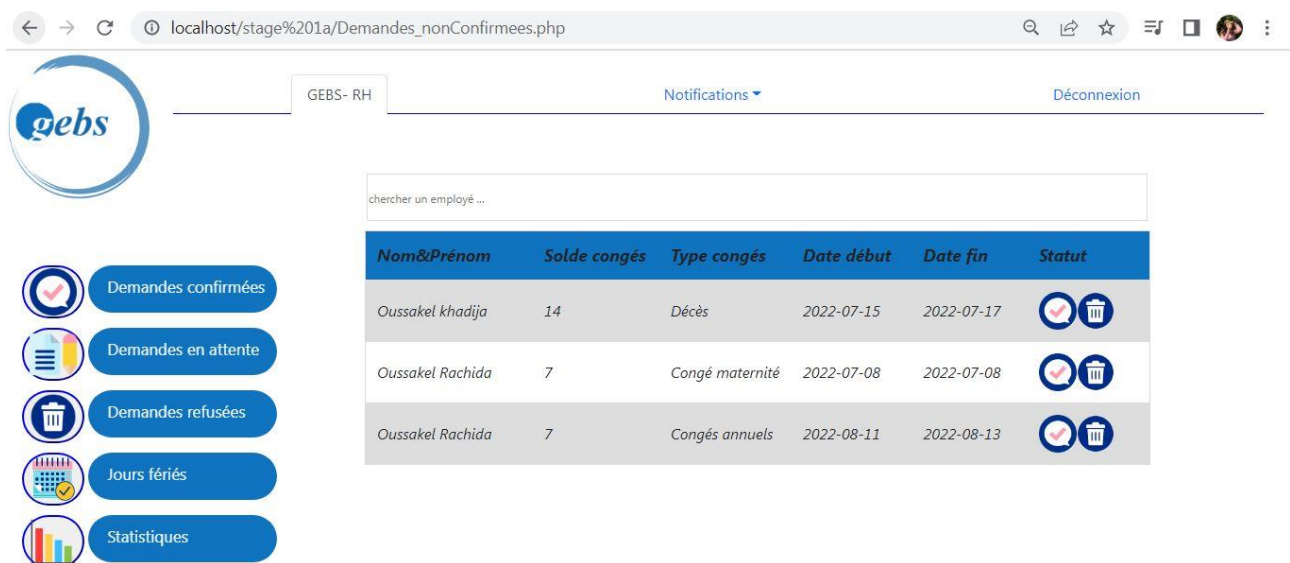


After logging, home page will essentially contain the employees' applications which aren't yet processed:









# Web design

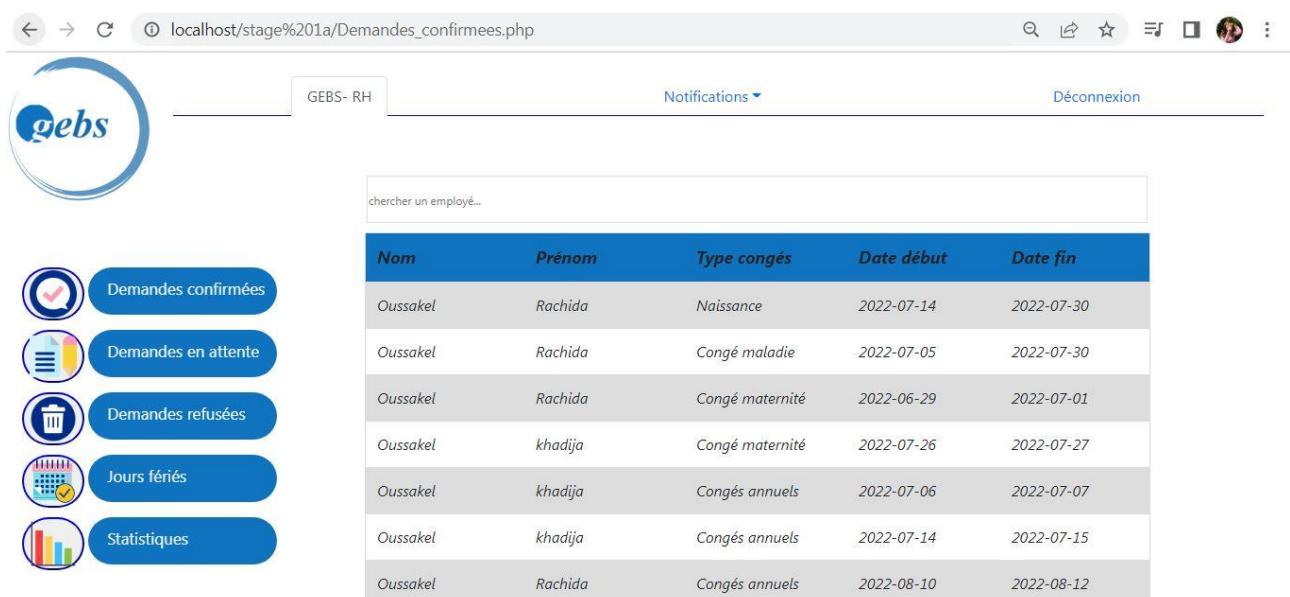
By clicking on one of the buttons on the right, you either approve or reject the employee's request and the leave balance will be automatically updated:



The screenshot shows a web application interface for managing leave requests. The browser address bar indicates the URL is `localhost/stage%201a/Demandes_nonConfirmees.php`. The interface includes a sidebar with navigation buttons: "Demandes confirmées", "Demandes en attente", "Demandes refusées", "Jours fériés", and "Statistiques". The main content area features a search bar labeled "chercher un employé ..." and a table of pending requests.

Nom&Prénom	Solde congés	Type congés	Date début	Date fin	Statut
Oussakel khadija	14	Décès	2022-07-15	2022-07-17	 
Oussakel Rachida	7	Congé maternité	2022-07-08	2022-07-08	 
Oussakel Rachida	7	Congés annuels	2022-08-11	2022-08-13	 

To display the approvals/rejections you have to click on “Demandes confirmées”/ “Demandes refusées”:



The screenshot shows the same web application interface but for confirmed requests. The browser address bar indicates the URL is `localhost/stage%201a/Demandes_confirmees.php`. The sidebar navigation buttons remain the same. The main content area features a search bar labeled "chercher un employé..." and a table of confirmed requests.

Nom	Prénom	Type congés	Date début	Date fin
Oussakel	Rachida	Naissance	2022-07-14	2022-07-30
Oussakel	Rachida	Congé maladie	2022-07-05	2022-07-30
Oussakel	Rachida	Congé maternité	2022-06-29	2022-07-01
Oussakel	khadija	Congé maternité	2022-07-26	2022-07-27
Oussakel	khadija	Congés annuels	2022-07-06	2022-07-07
Oussakel	khadija	Congés annuels	2022-07-14	2022-07-15
Oussakel	Rachida	Congés annuels	2022-08-10	2022-08-12

# Web design

Generating comprehensive statistics on employee leave behavior and patterns will certainly play a significant role in effective analysis and therefore enhance the decision-making efficiency.



Based on the collected data, a glance at the graph suggested that July witnesses most approvals comparing to other months.



# Conclusion

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*In conclusion, I can say that the whole internship from completed tasks to work environment was a rewarding and excellent experience. Thanks to this project, I acquired deeper knowledge concerning web designing; there have been a lot to learn as someone with no prior experience but learning new programming languages was well worth it. Needless to say, the technical aspect of the work done isn't flawless and could certainly be improved provided enough time. For instance, the notifications' system could be managed in real time. Also, generating files filled in with the selected information for each application could be useful for the HR department.*