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PROJECT REPORT

Hestage



users

GROUPE N° 1

PROJECT REPORT

STUDENT INTERNSHIP TRACKING WEB APPLICATION



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I. INTRODUCTION

Managing internships manually is a hard work. It's the reason why we created an application that will help the administration in their work.

To realize this web application, we have used python framework (Django) and python like the principal programming language. We have used REACT to create the user interface, connected the application with the database which is managed by MySQL.

The application will track the student from the first date of research his internship until the date of his completion. It will also capable to verify the student's presence on the different workshops and attribute marks to the students according to the protocol.

It will capable to follow students from four different years (1st year, 3rd year, 4th year and 5th year). In the following sections we will talk about this web application in detail

II. STRUCTURE AND REponsibilities

In this part we are going to talk about how the project is structured and what was asked, it's general purpose, target, responsibilities (during the conception).

1. GENERAL IDEA AND GOAL

He already talked about it in the introduction, but we are going to do a small reminder in this section once again. The project's general idea is to release the internship's service of manually work. With this application, all these process will be automated.

The purpose of this project is to allow student to acquire solid skills in programming and the domain of database management.

2. TARGET

The principal target is the internships service or the administration.

3. RESPONSIBILITIES

We divided the work into three parts: database, interface and connection between them

- Database

This part was done by Komivi AGBEVIADÉ and Jacob Wilson

- Interface

It was realized by Ahmad JABRI and Elsa BONKOUNGOU

- Connection between the database and the interface

This part was done by Yves Roland OHIN and Abila ALEMAWO

III. CONCEPTUAL DATA MODEL

To design this model, we have used some notions like entity, relations, identifier and cardinality in order to conceive the data base. According to the description of the project, he have select certain number of entity among which are student, administration, supervisor, internship, meeting, mark and notification.

1) Student

In the model, every student have his own identity number which is unique and allow to identify him, his last name, first name, birth day, phone number, email address, gender, nationality, major, year of study and a Boolean property which will show if he has found his internship or not. All this information permit to recognize a current student. This entity is related to other entity like internship, meeting and mark. That means a student will, take part of different meetings, have marks according to the protocol of attribution and finally will realize his internship.

2) Administration

Every member of the administration have an identification number too. He has also a last name, first name, email, job title and his phone number. This entity is linked to notification and internship. They will manage every student's internship sharing and receiving notifications. The administration is the principal user of the application. The can add, remove and modify a student.

3) Supervisor

Every supervisor have one and only identifier which permit to recognize him uniquely, he has also first name, last name, the major he supervised, an email address and phone number. He supervise at least one student and ensure that each student have a good application file. This entity is related to mark. That means the supervisor can give marks.

4) Internship

Like other entity, internship have an identification number which permit to rise uniquely to an internship. It has also name, email of the supplier company research date, start date and end date. It is in relation with administration, student and enterprise. The internship will be done by a student in a laps of time (duration), offer by an enterprise and will be managed by the administration.

5) Meeting

The purpose of the meetings is to allow student getting ready for each step from the date of research until the end of the internship. This entity maintain a relationship with student (entity). It's clear that meetings are organized for student to improve their communication skills in order to increase their lucky to find an internship.

Meeting has also an identifier like the other entities, name (the entitled of the meeting: sensitization, kick off...), the level, start our and end hour.
During the different meetings, student will receive marks.

6) Mark

Marks are attribute by supervisors following certain protocol. It will be obtained by student and attribute by his supervisor and it will save by administration. He have different type of mark and a global mark too.

7) Notification

It will be the communication channel between the students and administration and will allow them to track the process progress according to the notification protocol defined in the main topic. It is only linked to administration. Then the can send notifications to the student in order to share some information and an also receive from student (sending CV, justifications...).

IV. LOGICAL DATA MODEL

To realize this model we had to respect some rules. We got it from the conceptual data model.
The different rules are:

- Identifiers become primary keys
- Entities become tables
- Attributes become columns
- Plural relationships (n,n) become new tables
- Parent entities give their primary keys to child entities which become foreigner keys.

This model permit to establish a structure of data elements and relationship among them.

1. Logical Data Model make with hands

ADMINISTRATION (id_admin(pk), nom, prenom, adresseemail, poste, numtel)

ASSISTER (id_assister(pk), idreunion, idetud, presence)

ENCADRANT (id_encad(pk), nom, prenom, matiere, adresseemail, numtel)

ETUDIANT (id_etudiant(pk), nom, prenoms, date_naiss, adresseemail, numtel, nationalite, cycle, cv, annee, stage_trouvé)

NOTES (id_note(pk), \$id_encad(fk), note, note_cv, note_stage_trouvé, note_encadrant, note_sensibilisation, note_totale)

NOTIFICATIONS (id_notif(pk), \$id_admin(fk), adresse_envoie, adresse_reception, objet, fichier, date_d_envoie , message)

REUNIONS (id_reunion(pk), nom_reunion, date_debut, année, heure_debut, heure_fin, filière)

STAGE (id_stage(pk), \$id_admin(fk), nom_stage, type_stage, nom_entreprise, email_entreprise, date_recherche, date_debut, date_fin).

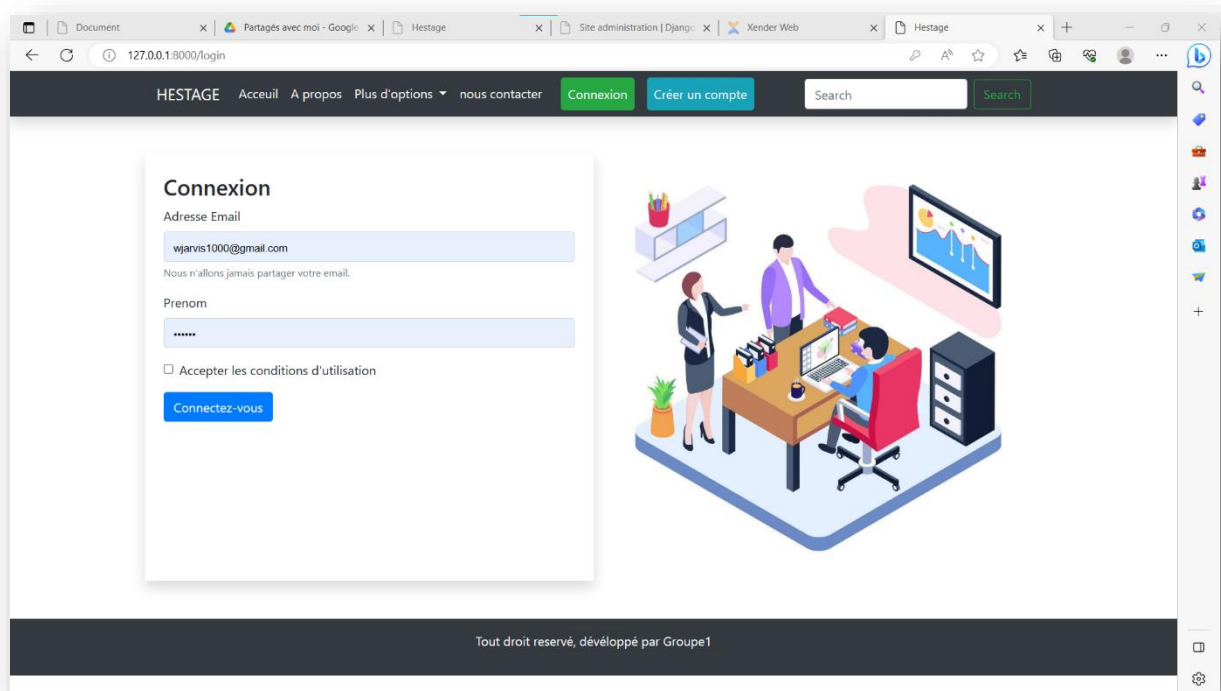
V. USER INTERFACE

The user interface is designed using HTML, CSS and JAVASCRIPT. It is super clean and easy to handle.

There are some images of the users interface

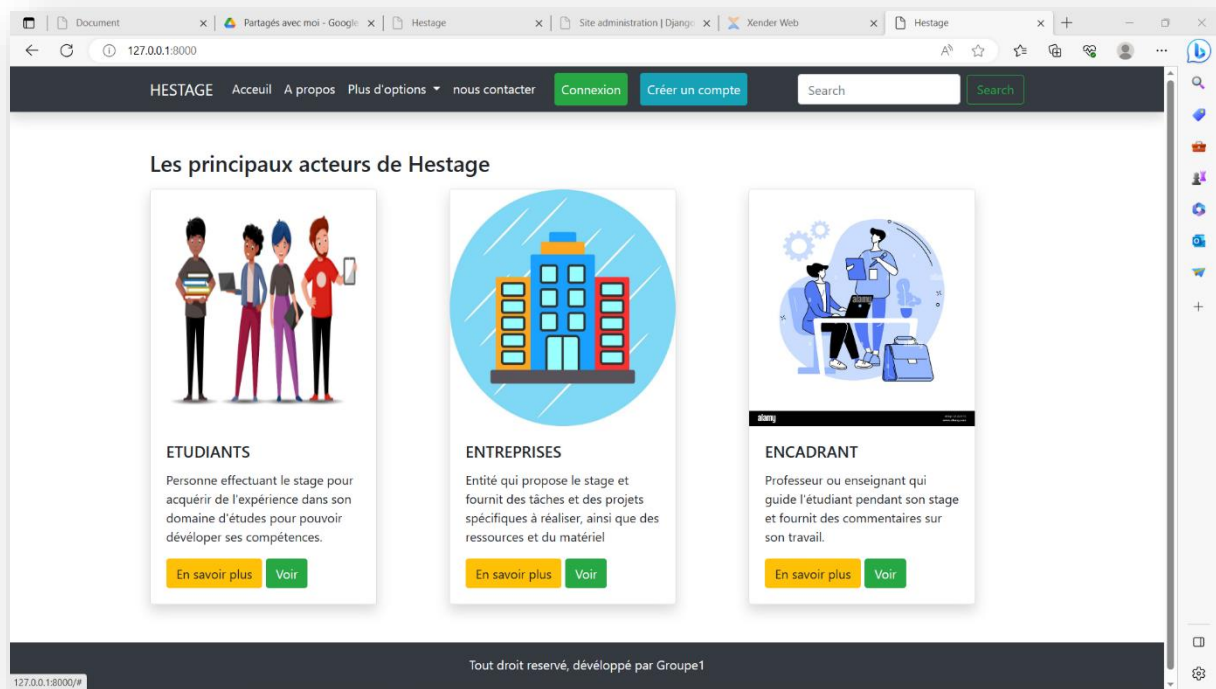
I. Login page

The login page allow users to access the main window of the application and to perform tasks.



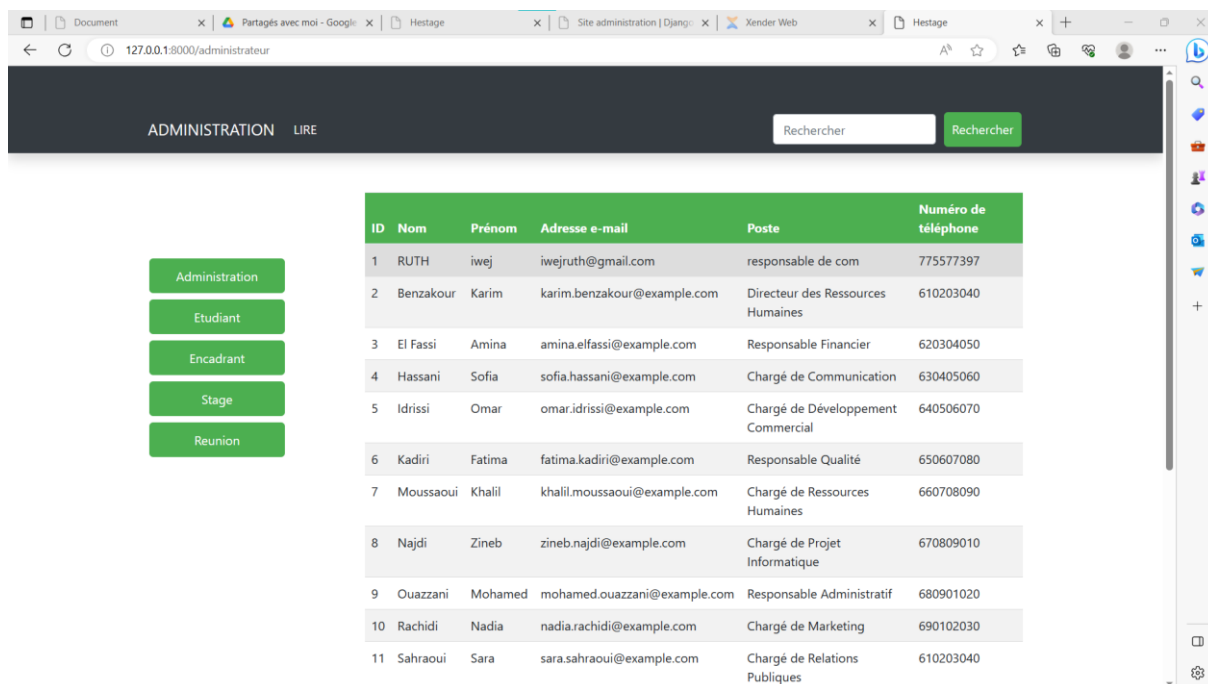
II. Home page

The home page presents in few words the application's use cases and gives a first look of the entire application.



III. Administration interface

This page is a dedicated to the administrators; it displays all members of the administration. On this page, you can also research an administrator.



IV. Student's page

This page allow the user to perform some tasks concerning students. He can display all student, research on student or even more according to a specific word in their names.

➤ Display all students

Document

Partagés avec moi - Google

Hestage

Site administration | Django

Xender Web

Document

127.0.0.1:8000/etudiant

ETUDIAN

LIRE

AJOUTER

MODIFIER

SUPPRIMER

Rechercher

Rechercher

Administration

Etudiant

Encadrant

Stage

Reunion

ID	Nom	Prénom	Adresse e-mail	Numéro de téléphone	Nationalité	Cycle	Année	Stage trouvé	
<input checked="" type="checkbox"/>	1	Rémy	Stéphanie	Stéphanie.Rémy@etu.ma	670587140	japonaise	génie civil	1	Oui
<input type="checkbox"/>	2	Michaud	Anouk	Anouk.Michaud@etu.ma	626726481	française	génie civil	1	Non
<input checked="" type="checkbox"/>	3	Fabre	Céline	Céline.Fabre@etu.ma	613769958	congolaise	génie civil	1	Oui
<input type="checkbox"/>	4	Bousquet	Juliette	Juliette.Bousquet@etu.ma	664440191	gabonaise	génie civil	1	Oui
<input type="checkbox"/>	5	Cordier	Alex	Alex.Cordier@etu.ma	649300020	chinoise	génie civil	1	Non
<input checked="" type="checkbox"/>	6	Mallet	Timothée	Timothée.Mallet@etu.ma	625351254	égyptienne	génie civil	1	Non
<input type="checkbox"/>	7	Brun	Margaud	Margaud.Brun@etu.ma	656208073	chinoise	génie civil	1	Oui
<input type="checkbox"/>	8	Baron	Corinne	Corinne.Baron@etu.ma	676906086	marocaine	génie civil	1	Non
<input type="checkbox"/>	9	Legrand	Agathe	Agathe.Legrand@etu.ma	670633778	égyptienne	génie civil	1	Non
<input type="checkbox"/>	10	Gonzalez	Céline	Céline.Gonzalez@etu.ma	681979921	française	génie civil	1	Oui
<input type="checkbox"/>	11	Sanchez	Tristan	Tristan.Sanchez@etu.ma	678497594	sénégalaise	génie civil	1	Non
<input type="checkbox"/>	12	Foucher	Pénélope	Pénélope.Foucher@etu.ma	600780362	française	génie civil	1	Non
<input type="checkbox"/>	13	Cohen	Alice	Alice.Cohen@etu.ma	654680301	américaine	génie civil	1	Oui

➤ Search for a student

It is very simple; just tape the student's name you are looking for in research area and hit Search.

Document

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Xender Web

Hestage

127.0.0.1:8000/etudiant_search?query=Rémy

A

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ETUDIANT

LIRE

AJOUTER

MODIFIER

SUPPRIMER

Search

Search

Administration

Etudiant

Encadrant

Stage

Reunion

Résultats de la recherche

	Nom	Prénom	Email	Cycle	Année
<input type="checkbox"/>	Rousseau	Rémy	Rémy.Rousseau@etu.ma	organisation et gestion industrielle	1
<input type="checkbox"/>	Lemoine	Rémy	Rémy.Lemoine@etu.ma	marketing	1
<input type="checkbox"/>	Nicolas	Rémy	Rémy.Nicolas@etu.ma	organisation et gestion industrielle	4

Tout droit réservé, développé par Le Groupe1

➤ Add student

One of the major task is adding a student, so we a dedicated page for that. On this page you can add a student by entering his personal information and hit the add button.

Ajout d'un étudiant

Nom

Prenom

Adresse Email

Nous n'allons jamais partager votre email.

Numéro de téléphone

Nationalité

Cycle

Rechercher

Rechercher

V. Supervisors interface

On this page, the user can perform some tasks concerning the supervisors such as displaying all of them, search for a supervisor and adding a new supervisor.

➤ Display all supervisors

ENCADRANT

Administration

Etudiant

Encadrant

Stage

Reunion

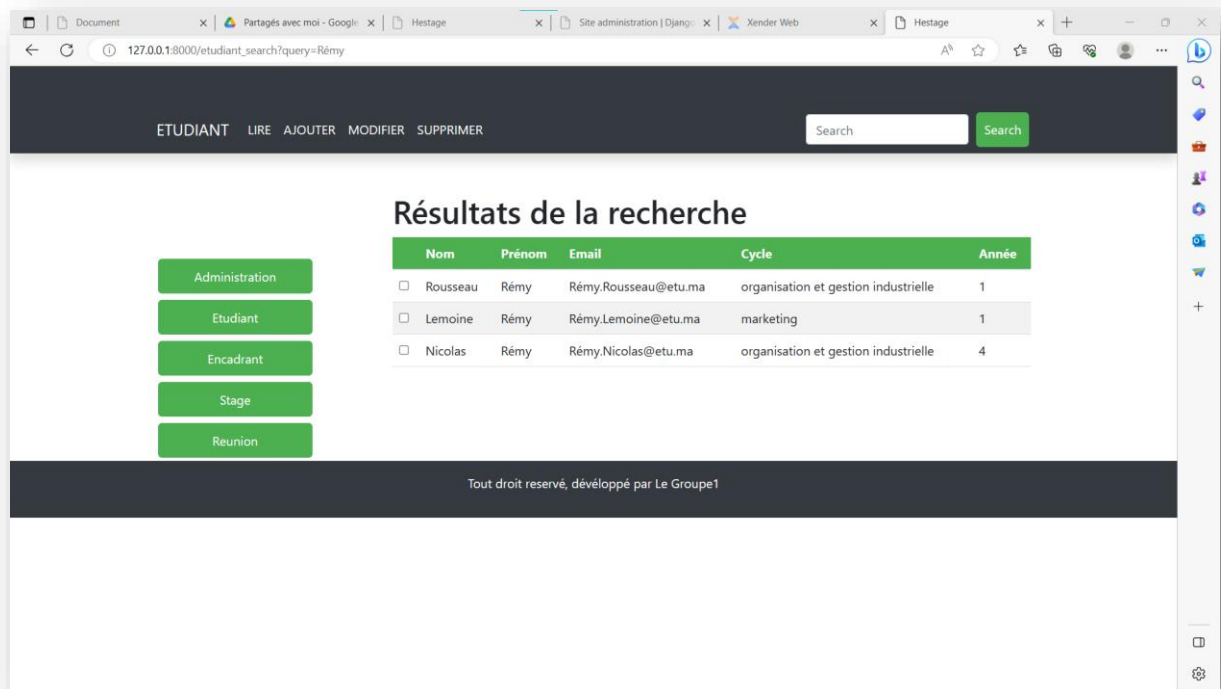
Rechercher

Rechercher

ID	Nom	Prénom	Adresse e-mail	Matière	Numéro de téléphone
1	Diallo	Mariama	diallo.mariama@example.com	Réseaux et télécommunications	5551234567
2	Diarra	Amadou	diarra.amadou@example.com	Génie civil	5552345678
3	Dabo	Aminata	dabo.aminata@example.com	Ingénierie financière	5553456789
4	Cissé	Fatoumata	cisse.fatoumata@example.com	Marketing	5554567890
5	Ba	Alassane	ba.alassane@example.com	Informatique	5555678901
6	Gueye	Mamadou	gueye.mamadou@example.com	Génie électrique	5556789012
7	Faye	Khady	faye.khady@example.com	Management	5557890123
8	Diop	Pape	diop.pape@example.com	Ingénierie biomédicale	5558901234
9	Mbaye	Sokhna	mbaye.sokhna@example.com	Ingénierie industrielle	5559012345
10	Tall	Ibrahima	tall.ibrahima@example.com	Marketing digital	5550123456
11	Diagne	Astou	diagne.astou@example.com	Ingénierie logistique	5551234567
12	Ndiaye	Babacar	ndiaye.babacar@example.com	Management de projet	5552345678
13	Sow	Adama	sow.adama@example.com	Génie mécanique	5553456789

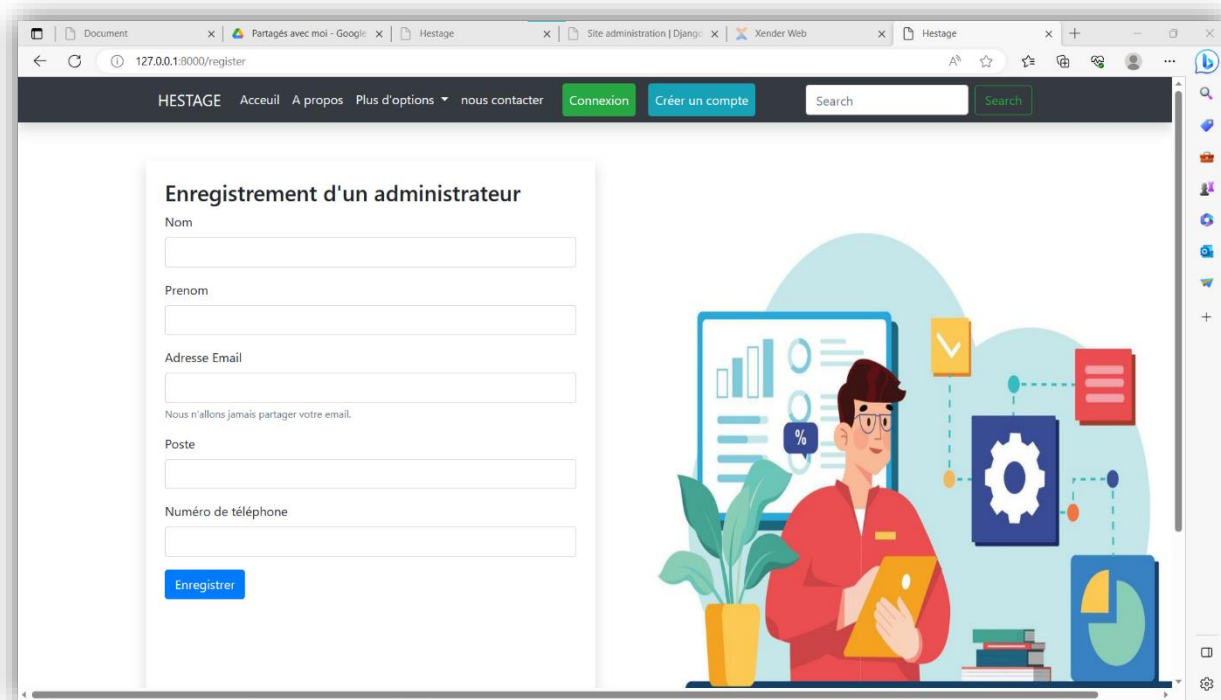
➤ Search for a supervisor

If, for example, the user wants information about a particular supervisor, he or she can perform a search by typing the supervisor's name in the search bar.



➤ Add a new supervisor

To add a new supervisor, it is quite similar to the searching functionality on student's page.



VI. Meeting

This page of the management regarding meetings.

REUNION LIRE AJOUTER MODIFIER SUPPRIMER

Rechercher Rechercher

ID réunion	Nom de la réunion	Date de début	Année	Filière
<input type="checkbox"/> 1	kickoff	May 22, 2023	1	génie civil
<input type="checkbox"/> 2	atelier de cv	Nov. 15, 2023	1	génie civil
<input type="checkbox"/> 3	réunion de sensibilisation	Oct. 18, 2023	1	génie civil
<input type="checkbox"/> 4	kickoff	July 16, 2023	1	génie industriel
<input type="checkbox"/> 5	atelier de cv	Dec. 26, 2023	1	génie industriel
<input type="checkbox"/> 6	réunion de sensibilisation	Nov. 15, 2023	1	génie industriel
<input type="checkbox"/> 7	kickoff	Nov. 19, 2023	1	génie logistique
<input type="checkbox"/> 8	atelier de cv	April 15, 2023	1	génie logistique
<input type="checkbox"/> 9	réunion de sensibilisation	June 21, 2023	1	génie logistique
<input type="checkbox"/> 10	kickoff	June 21, 2023	1	génie informatique
<input type="checkbox"/> 11	atelier de cv	Nov. 26, 2023	1	génie informatique
<input type="checkbox"/> 12	réunion de sensibilisation	Jan. 14, 2023	1	génie informatique
<input type="checkbox"/> 13	kickoff	Aug. 22, 2023	1	organisation et gestion industrielle
<input type="checkbox"/> 14	atelier de cv	Feb. 6, 2023	1	organisation et gestion industrielle

VII. Internship page

Here you will find everything about student internships.

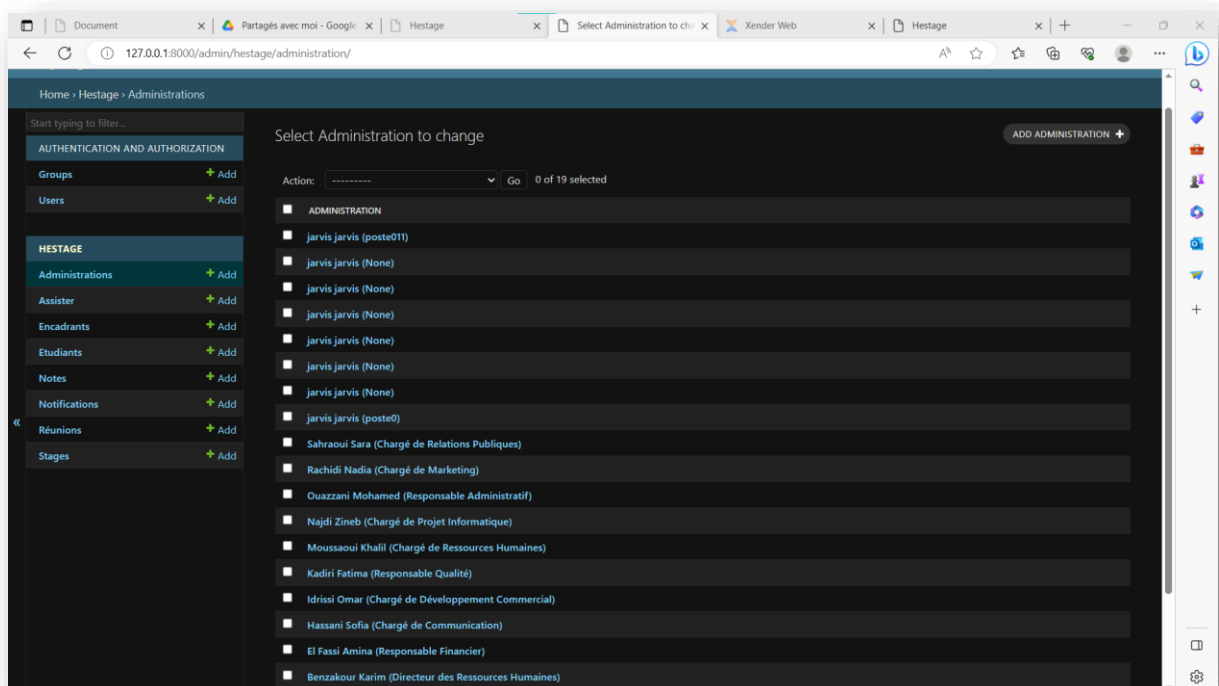
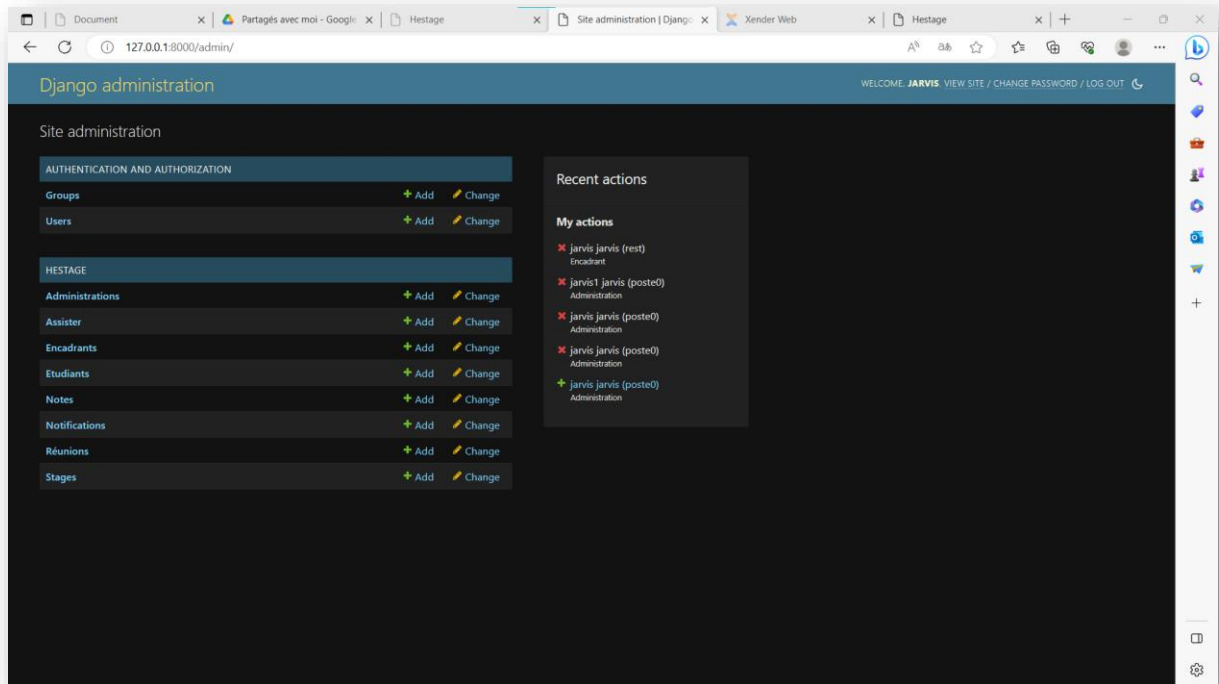
STAGE LIRE AJOUTER MODIFIER SUPPRIMER

Rechercher Rechercher

ID stage	ID admin	ID étudiant	Nom du stage	Type de stage	Nom de l'entreprise	E-mail de l'entreprise	Date de recherche	Date de début	Date de fin
<input type="checkbox"/> 1	1	1	Stage 1	Stage marketing	Entreprise 3	entreprise_3@entreprise.com	Feb. 13, 2023	March 18, 2023	July 8, 2023
<input type="checkbox"/> 2	9	2	Stage 2	Stage technique	Entreprise 2	entreprise_2@entreprise.com	Dec. 23, 2022	Feb. 7, 2023	July 25, 2023
<input type="checkbox"/> 3	8	3	Stage 3	Stage communication	Entreprise 2	entreprise_2@entreprise.com	March 1, 2023	April 24, 2023	Aug. 14, 2023
<input type="checkbox"/> 4	5	4	Stage 4	Stage RH	Entreprise 5	entreprise_5@entreprise.com	Feb. 22, 2023	March 26, 2023	Sept. 10, 2023
<input type="checkbox"/> 5	9	5	Stage 5	Stage technique	Entreprise 5	entreprise_5@entreprise.com	Dec. 20, 2022	Feb. 8, 2023	June 28, 2023
<input type="checkbox"/> 6	9	6	Stage 6	Stage communication	Entreprise 3	entreprise_3@entreprise.com	March 7, 2023	April 18, 2023	Aug. 8, 2023

You will find every student who found an internship and all information about his internship like the name of the company offering the internship, the research date and both start and end date.

Finally, we have Django administration, which allows developers to perform some tasks inside their application especially the CRUD (Create, Read, Update and Delete) operations.



VIII. CONCLUSION

In resume, that is all globalist view on each step crossed to realize this application. We applied everything we learned at school and enough other things that we have discovered ourselves. We faced many problems but did everything we could to solve them. This project brought us a lot notably teamwork, research, also technical skills and obviously an improvement in English.