University Of Science And Technology Houari Boumediene
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Mini Project report

The dematerialization of subscriptions for SETRAM

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for the subject : Web development
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Suggested Problems:

1. Manual Subscription Handling: Current reliance on handwritten folders for subscriptions introduces inefficiencies and potential errors.

2. Client Inconvenience: Clients must physically visit a bureau for subscriptions, causing delays and inconvenience.

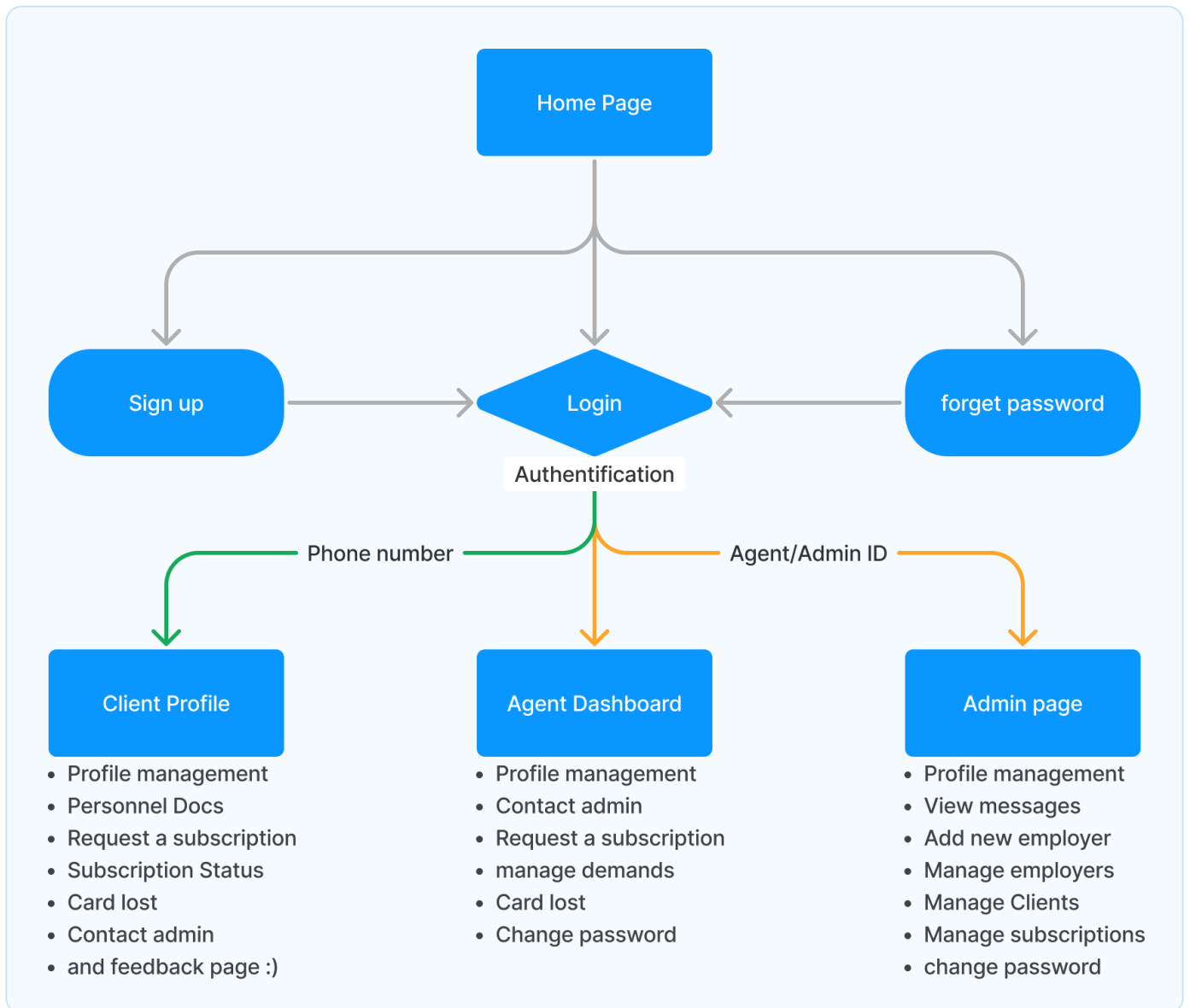3. Renewal Delays: Manual renewal processes can lead to delays and oversights in subscription renewals.

Objectives:

1. Numerical Organization: Implement a numerical system for organizing subscriptions and client folders.

2. Digital Subscription Requests: Introduce an online platform for users to request subscriptions, eliminating the need for physical visits.

3. Automated Renewals: Develop an automated system for processing subscription renewals, ensuring timely updates.

Propositions:

1. Centralized Database: Create a secure database for centralized storage and management of subscription data.

2. Employer-Focused Platform: Develop a digital platform for employers to efficiently manage subscriptions.

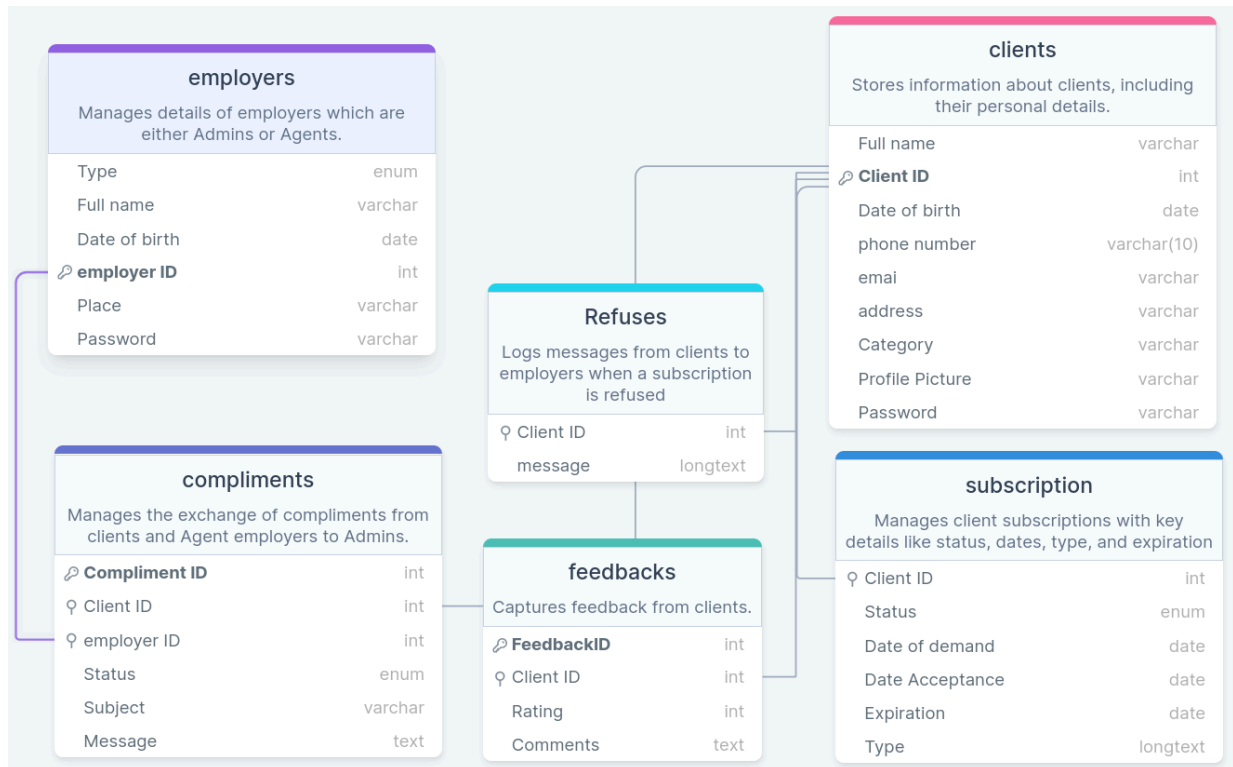3. Automation Implementation: Propose the automation of subscription-related processes for increased efficiency.

Platform Schéma:

```
                    ┌──────────────┐
                    │  Home Page   │
                    └──────────────┘
           ┌───────────────┼───────────────┐
           ▼               ▼               ▼
    ┌──────────┐      ◇─────────◇     ┌───────────────┐
    │ Sign up  │─────▶│  Login  │◀────│ forget password│
    └──────────┘      ◇─────────◇     └───────────────┘
                    Authentification
          Phone number  │    │  Agent/Admin ID
       ┌────────────────┘    └──────────────────┐
       ▼               ▼                         ▼
┌──────────────┐ ┌────────────────┐      ┌──────────────┐
│ Client Profile│ │ Agent Dashboard│      │  Admin page  │
└──────────────┘ └────────────────┘      └──────────────┘
```

Client Profile
- Profile management
- Personnel Docs
- Request a subscription
- Subscription Status
- Card lost
- Contact admin
- and feedback page :)

Agent Dashboard
- Profile management
- Contact admin
- Request a subscription
- manage demands
- Card lost
- Change password

Admin page
- Profile management
- View messages
- Add new employer
- Manage employers
- Manage Clients
- Manage subscriptions
- change password

Subscription Structure:

1. Client ID and Full name
2. Phone number
3. Date of demand
4. Duration
5. Expiration Date
6. Category

Database structure:

employers
Manages details of employers which are either Admins or Agents.

Type	enum
Full name	varchar
Date of birth	date
🔑 employer ID	int
Place	varchar
Password	varchar

clients
Stores information about clients, including their personal details.

Full name	varchar
🔑 Client ID	int
Date of birth	date
phone number	varchar(10)
emai	varchar
address	varchar
Category	varchar
Profile Picture	varchar
Password	varchar

Refuses
Logs messages from clients to employers when a subscription is refused

🔑 Client ID	int
message	longtext

compliments
Manages the exchange of compliments from clients and Agent employers to Admins.

🔑 Compliment ID	int
🔑 Client ID	int
🔑 employer ID	int
Status	enum
Subject	varchar
Message	text

feedbacks
Captures feedback from clients.

🔑 FeedbackID	int
🔑 Client ID	int
Rating	int
Comments	text

subscription
Manages client subscriptions with key details like status, dates, type, and expiration

🔑 Client ID	int
Status	enum
Date of demand	date
Date Acceptance	date
Expiration	date
Type	longtext

• Employer ID and Client ID both consist of 5 digits and are randomly generated to ensure unique IDs.

• Employer IDs start with '1', while Client IDs start with '2'. The ID '10000' represents the general Admin, and '20000' is the guest ID.

• Other primary keys, such as Compliment ID and Feedback ID, are auto-incremented integers.

• Users have the ability to send private messages to the Admin, and these messages are stored in the Compliments table.

• The Refuses table is utilized to store messages from employers to Clients when a subscription is refused.

• The Profile Picture property on the clients table contains the file path of the corresponding profile picture, which is stored on the server.

• Subscription.Status can contain ['inhold', 'Valid', 'Refused', 'Lost', 'Ruined', 'Outdated']
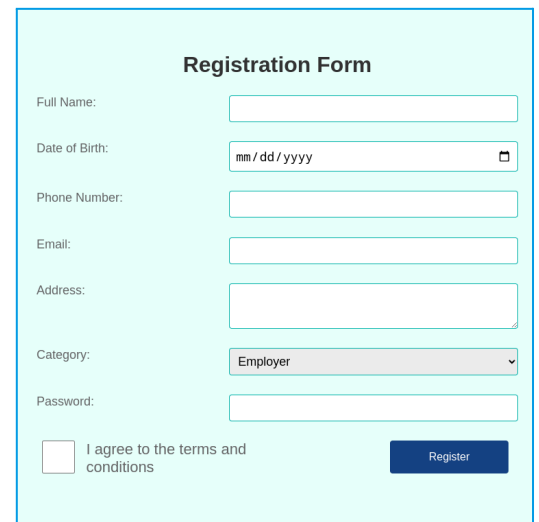
• Database.php in the file used to declare the Database and tables classes, Database class contains the connecting to the server and to the database metodes while the tables classes contains Creating and Dropping tables methods

```php
$database = new Database("localhost", "Setram", "root", "");
$employersTable = new Employers($database);
$clientsTable = new Clients($database);
$subscriptionTable = new Subscription($database);
$complimentsTable = new Compliments($database);
$additionalItemsTable = new AdditionalItems($database);
$add = new Refuses($database);
$feedbacks = new feedbacks($database);
```
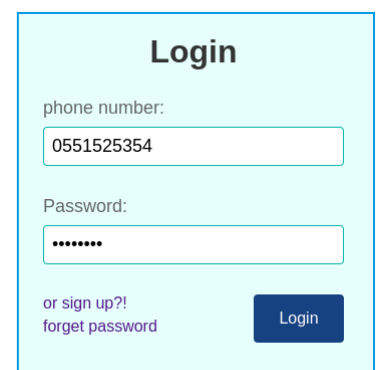
Homepage (index.php)

Serves as the central hub, offering a concise overview of Setram. The main features include login and sign-up buttons.

On the sign-up page, users input their information, and after submission, a new row is added to the clients table with a randomly generated client ID, eliminating the need for users to be aware of this detail. Upon successful submission, users are redirected to the login page.

The login page facilitates user access by utilizing phone numbers (or ID for employers) and offers a password reset option using a default OTP (0000). Following successful login, clients are redirected to their personalized dashboard (client.php) and a cookie named 'session' will be assigned with value of 'Client ID'
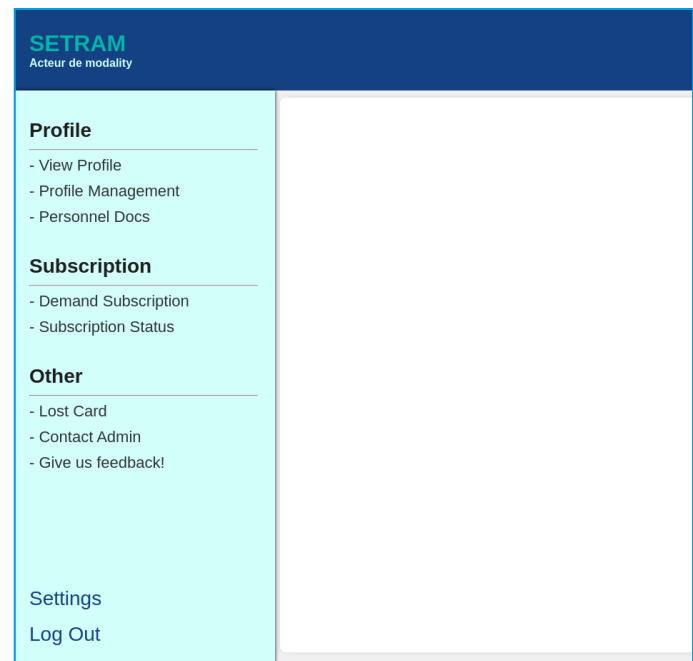
Dashboards (./dashboards/)

All users share a common dashboard template comprising a left panel for navigation and a right panel for content. Upon selecting an element from the left menu, a GET method assigns the selected element to the $content variable, dynamically altering the display on the right panel.

Dashboard pages employ the 'session' cookie to verify the user's type based on their ID. This ensures that users cannot access dashboards intended for other user types. If a user attempts to access the wrong dashboard, they are automatically redirected to the appropriate one.

The settings page allows users to change their password. The log-out button serves to delete the session cookie and any other promotional cookies, redirecting the user back to the home page.

Client page (dashboard/client.php)

- **Profile Page:** Facilitates the retrieval and display of user profile information, interacting with the underlying database to present real-time data.

- **Profile Management:** Features a dynamic form pre-populated with user information fetched from the database. Utilizing server-side scripting, users can modify their details, and upon submission, an SQL query updates the corresponding row in the clients table.

- **Personnel Docs:** Employs a file upload mechanism for users to submit crucial documents, such as social cards and certifications. The server stores these files in a structured manner (/docs/{$type}__{$clientID}.jpg). Users can manage their uploaded documents, with actions like viewing and deleting implemented through server-side logic.

Attach Files

Please insert files in JPG format if possible.

Type	Document	Action
Social Card	(No attached file yet)	Add / Browse... No fil...cted.
Student Certificate	(No attached file yet)	Add / Browse... No fil...cted.

Submit

- **Subscription Demand:** Utilizes a form interface, integrating radio inputs for subscription type (weekly, category, multimodal, special) and duration (month, year, trimester). A server-side script calculates the total price, factoring in any promotion codes. Upon submission, an SQL query creates a new row in the subscriptions table, capturing relevant details.

Subscription Demand

Type of Subscription:
- ◯ Weekly
- ◉ employer
- ◯ Multimodal
- ◯ Special

Duration:
- ◉ Month
- ◯ Trimester
- ◯ Year

Total Price: $1000.00

Submit

(You have to attach your documents first)

- **Subscription Status:** Employs server-side logic to verify the client ID in the subscriptions table, extracting and displaying the subscription status dynamically. Additionally, the page continues to validate all valid subscriptions each time it is accessed, updating their status if they have expired. This involves executing SQL queries to ensure the accuracy and timeliness of subscription status information.

- **Lost Card:** Provides a form for users to report lost or ruined cards. Users specify the type of declaration and confirm through a combination of personal password and OTP (one-time password). Server-side validation ensures correctness of the submitted fields before executing an SQL query to update the client's subscription status to either Lost or Ruined.

Card Lost Declaration

This form is used to declare the loss or ruination of your card. Please choose the appropriate option, confirm your password, provide the OTP (One-Time Password), and submit the form to report the incident.

Declaration Type:
◯ Lost   ◯ Ruined

Password Confirmation:

●●●●●

OTP (One-Time Password):

Enter OTP

Submit

(Note: This form is for declaring the loss or ruination of your card.)

- **Contact Admin:** Implements a form with 'subject' and 'message' fields, enabling users to communicate with administrators. Upon submission, server-side logic adds a new row to the compliments table in the database, documenting user queries and feedback.

Contact Admin

Use the form below to contact the admin. Please provide a subject and details about your inquiry or message.

Subject:

> Enter the subject

Message:

> Enter your message

Submit

Feedback: Enables clients to offer feedback about the platform. Server-side processing handles the submission, creating a new row in the feedback table. A 30% promotion is implemented by generating a new cookie ("promo") with a value of "30" upon successful feedback submission. Server-side logic prevents users from submitting feedback multiple times.

Feedback Form

Rate your experience:

> 1 - Poor ⌄

What did you like about the experience?

Submit Feedback

Change Password

Old Password:

> ••••••

New Password:

Confirm New Password:

Change Password

Settings Page: This secure interface enables users to change their passwords through a form inputting old, new, and confirmed passwords. Server-side validation and SQL queries ensure the secure and accurate updating of user passwords in the database, providing streamlined account management.

Employer page (dashboard/agent.php)

● **Profile and Contact Admin:**

Similar to the client dashboard, the employer dashboard includes functionalities for viewing their profile and contacting the admin. The primary difference lies in the composition of messages in the Compliments table. Employer messages feature a Client ID of 20000 (guest ID), while client messages include an Employer ID of 10000 (admin ID) with the corresponding client's ID. In the event of an account deletion, both IDs become 20000 and 10000, with the sender noted as "deleted user."

	Compliment ID	Client ID	employer ID	Status	Subject	Message
☐ 🖉 Edit ⚡ Copy ⊖ Delete	6072	20000	13870	unchecked	subject	Lorem Ipsum est un texte d'espace réservé couramme...
☐ 🖉 Edit ⚡ Copy ⊖ Delete	9693	26719	10000	unchecked	hello	hello admin i hope u doing great

↑ ☐ Check all   With selected: 🖉 Edit   ⚡ Copy   ⊖ Delete   🖼 Export

● **New Demand:**

The New Demand functionality presents employers with a form to add physical subscriptions to the system by providing necessary information. Upon submission, a new subscription is created with a valid status. Additionally, the new client generated through this process gains platform access using their phone number and the default password "topSecret."

Request New Subscription

First Name: [Enter your first name]   Last Name: [Enter your last name]

Date of Birth: [mm / dd / yyyy]

Sex: ○ Male ○ Female

phone number: [Enter your phone Number]

Email: [Enter your Email]

Address: [Enter your address]

Category: [Scholar]

Type of Subscription: [Weekly]

[Submit]

● **Manage Demands:**

This feature comprises a dynamic and sortable table containing subscriptions with an 'inhold' status. Employers can either accept or refuse subscription requests through this interface. Refusal messages are stored in the Refuses table, including the client ID and the refusal message. This functionality streamlines the management of subscription demands.

Subscription Request Acceptance Manager

Client ID ▼	Full Name ▼	Date of Demand ▼	Type ▼	Accept
25331	abbas bn fernass	2024-01-19	[{"subscriptionType":"other","duration":"trimester"}]	Accept Refuse
26719	L'hadje adbellah	2024-01-19	[{"subscriptionType":"weekly","duration":"weekly"}]	Accept Refuse
20794	Djaafer Adb el Rahmen	2024-01-19	[{"subscriptionType":"multimodal","duration":"month"}]	Accept Refuse

Message for 26719:

[Enter your Refusal message]

[Submit]

Lost Card:

In the Lost Card section, employers can declare lost cards on behalf of clients by entering the client number and confirming the declaration through OTP. Employers can then select a status that updates the subscription. This feature ensures efficient handling of lost card declarations and subscription updates.

Lost Card Declaration

phone number:

0500000000

Card Status:
○ Lost ○ Ruined

OTP Confirmation Code:

••••••

Submit

Admin page (dashboard/admin.php)

Message:

The Admin Dashboard features a dynamic table providing the admin with an overview of compliments received, displaying details such as sender and message content. This functionality allows the admin to efficiently manage and respond to user feedback.

Compliment ID	Subject		Sender	Status
6072	subject		from: Tahraoui Dhia edding (Agent)	Check
Message:	Lorem Ipsum est un texte d'espace réservé couramment utilisé dans les industries graphique,			
8527	rain		from: abbas bn fernass (Client)	Check
Message:	He found rain fascinating yet unpleasant.			
2412	misunderstood		from: YasserMustapha (Client)	checked
Message:	I never understood why what, when, and where left out who.			
9693	hello		from: L'hadje adbellah (Client)	checked
Message:	hello admin i hope u doing great			
		Sort by unChecked		

New User:

This functionality enables the creation of new employer accounts within the system. The employer ID is automatically generated to ensure uniqueness, avoiding any duplication of IDs among employers.

Add New Agent

First Name:

    Enter agent's first name

Last Name:

    Enter agent's last name

Date of Birth:

    mm / dd / yyyy

Employer ID:

    18957

Bureau:

    0500000000

Password:

    ••••••

    Submit

Agents:

A dynamic and sortable table lists all employers, providing the admin with an overview of their data. Actions such as deleting an employer account or resetting their password can be performed directly from this interface, streamlining administrative tasks.

Type	Full Name ▼	Date of Birth ▼	Employer ID ▼	Place ▼	Action
Agent	Hellali meriem	2002-11-27	19766	Dar el beida	Delete / Reset Password
Agent	Raja mkded	2002-09-17	16795	Ain taia	Delete / Reset Password
Agent	Tahraoui Dhia edding	2000-02-25	13870	Bida	Delete / Reset Password

Clients:

The Admin Dashboard includes a dynamic and sortable table displaying all clients. Admins have the ability to delete client accounts, leading to the deletion of associated subscriptions. In the case of compliments with the client's ID, they are converted to 20000 (guest) to maintain data integrity.

Phone number ▼	Full Name ▼	Date of Birth ▼	Client ID ▼	Category ▼	Address ▼	Action
0551525354	Djaafer Adb el Rahmen	2002-12-10	20794	employer	Bab ezzouar, Algiers	Delete / Reset Password
0666666666	L'hadje adbellah	1974-01-11	26719	employer	Assenam	Delete / Reset Password
0500000000	YasserMustapha	2002-02-02	29018	student	measkar	Delete / Reset Password

Subscriptions:

This dynamic and sortable table centralizes information on all subscriptions within the system. Admins can efficiently review, manage, and take necessary actions related to subscriptions directly from this interface.

Client ID ▼	Full Name ▼	Date of demand ▼	Date Acceptance ▼	Type ▼	Expiration ▼	Status ▼	Action
25331	abbas bn fernass	2024-01-19	0000-00-00	[{"subscriptionType":"other","duration":"trimester"}]	2024-04-19	inhold	Delete
20794	Djaafer Adb el Rahmen	2024-01-19	0000-00-00	[{"subscriptionType":"multimodal","duration":"month"}]	2024-02-19	inhold	Delete
29018	YasserMustapha	2024-01-19	2024-01-19	["student","monthly"]	2024-02-19	Ruined	Delete
25331	abbas bn fernass	2024-01-15	0000-00-00	["other","trimester"]	2024-04-15	Lost	Delete
26719	L'hadje adbellah	2024-01-15	2024-01-15	["employer","monthly"]	2024-02-15	Lost	Delete
26719	L'hadje adbellah	2024-01-19	0000-00-00	[{"subscriptionType":"weekly","duration":"weekly"}]	2024-01-26	Lost	Delete

Lost Cards:

The Lost Cards section features a dynamic and sortable table containing all subscriptions marked with a lost or ruined status. Admins can review and, if needed, convert these subscriptions back to 'inhold,' providing a comprehensive overview and control over subscription statuses.

Client ID ▼	Full Name ▼	Date of demand ▼	Date Acceptance ▼	Type ▼	Expiration ▼	Status ▼	Action
25331	abbas bn fernass	2024-01-15	0000-00-00	["other","trimester"]	2024-04-15	Lost	Found!
26719	L'hadje adbellah	2024-01-15	2024-01-15	["employer","monthly"]	2024-02-15	Lost	Found!
26719	L'hadje adbellah	2024-01-19	0000-00-00	[{"subscriptionType":"weekly","duration":"weekly"}]	2024-01-26	Lost	Found!
29018	YasserMustapha	2024-01-19	2024-01-19	["student","monthly"]	2024-02-19	Ruined	Found!

Achieved Objectives:

1. Digitization of Subscriptions and Employers' Records:

Transitioned from manual paperwork to a digitized system for managing subscriptions and employer records. This transformation ensures a more organized, efficient, and numerically accessible database.

2. Creation of an Intuitive and Interactive User Interface:

Implemented an intuitive and interactive user interface, enhancing accessibility for users with varying levels of technical expertise. The design prioritizes user-friendly navigation, contributing to a seamless and engaging user experience

3. Convenient Subscription Management for Clients:

Revolutionized the client experience by providing a user-friendly platform for ordering subscriptions remotely. This process eliminates the need for physical visits to ticket offices, reducing inconvenience and improving efficiency. Clients can now initiate subscription requests easily, with faster response times compared to traditional methods.

4. Security Measures:

- Implementation of security features such as password encryption, one-time passwords (OTPs), and validation checks, enhancing the overall protection of user data and platform integrity.

Acquired Knowledge:

1. Database Design and Management:

- Gained expertise in designing and managing a relational database system, incorporating tables, relationships, and optimized queries for efficient data handling.

2. Acknowledgment of Learning Queries:

- Implementing learning queries enhanced real-time analysis of user interactions, driving continuous improvements in the system's user interface, subscription processes, and security measures. This knowledge supports ongoing adaptability and future project success.

3. Dynamic Web Development:

- Enhanced skills in dynamic web development, utilizing server-side scripting (PHP) to create interactive features such as dynamic tables and form submissions.

Perspectives:

1. **Real-Time Employer Monitoring:**

   Implementing real-time methods for tracking active employer sessions and recording their session times is a future perspective. This addition aims to enhance system management and provide valuable insights into user engagement patterns.

2. **User Activity Logs:**

   Introducing comprehensive logs for various user activities is a planned enhancement. This feature will facilitate a detailed overview of system usage, contributing to improved security measures and overall system efficiency.

3. **Integration of Notification Systems:**

   Incorporating real-time notification systems for users and administrators to receive timely updates on subscriptions, compliments, or other relevant activities could improve communication and user engagement.

4. **Enhanced Reporting and Analytics:**

   Implementing reporting tools and analytics features could provide valuable insights into user behavior, helping administrators make informed decisions for platform improvements.

5. **User Experience Enhancements:**

   Continuously refining the user interface (UI) and user experience (UX) based on user feedback and emerging design trends can contribute to increased user satisfaction and engagement.