



Fatima Jinnah Women University

Project Report

LINKEDIN CLONE WEBSITE

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REPORT ON LINKEDIN CLONE WEBSITE

Introduction

This report provides a comprehensive guide on creating a basic LinkedIn-like website focusing on its user interface, transitions, and backend functionality using HTML, CSS, JavaScript, and Java. It simplifies the complex process of creating a professional networking platform by building its essential components. The following sections detail the step-by-step process and key features implemented.

Project Setup

Folder Structure

The project uses the following folder structure:

```
|— index.html  
  
|— css/  
|   |— style.css  
  
|— js/  
|   |— script.js  
  
|— images/  
  
|— backend/  
|   |— Server.java
```

Extensions to Install in VS Code

- Live Server: To view the frontend in real-time on Chrome.
- Java Extension Pack: To support Java backend development.

Software Requirements

- Java JDK (version 8+).

- Google Chrome browser.
- gson-2.10.1

Frontend Development

The frontend is designed using HTML for structure, CSS for styling, and JavaScript for interactivity.

HTML Files

- ****index.html:**** Contains the homepage structure.
- ****network.html:**** Displays "My Network" functionality including connections and groups.
- ****jobs.html:**** Lists job opportunities with titles and Apply buttons.
- ****profile.html:**** Displays user profile details and suggestions for improvement.
- ****register.html:**** A registration form for users to sign up by providing their name, email, password, and phone number.

CSS File

- Applies consistent styling across all HTML files.
- Includes styles for responsiveness and layout customization.

JavaScript File

- Adds interactivity and event-handling logic, such as navigation and API interactions.
- Sends requests to the backend and processes user actions dynamically.

Java Backend (Server.java)

- Server.java: Hosts a server at `http://localhost:8000` and handles POST requests for user registration.
- Includes API route (`/api/register`) to process registration data and save it to a `users.json` file.
- Uses `HttpServer` to handle HTTP requests and `Google Gson` for JSON parsing and handling.

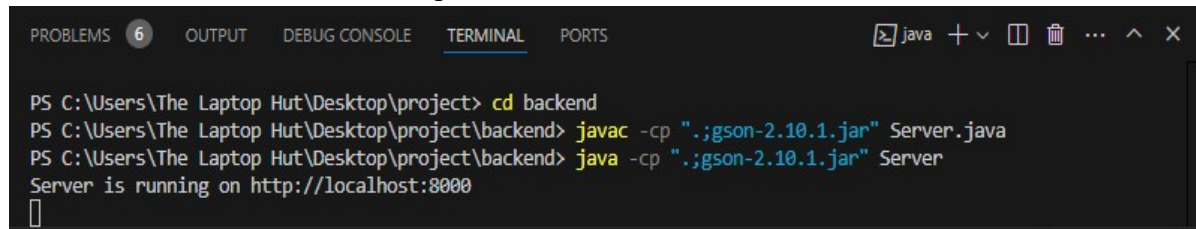
➤ How User Data Store

1. User data is saved in the `users.json` file on the server's local filesystem.
2. The `users.json` file is created in the server's working directory if it doesn't exist.
3. User data (name, email, password, phone) is appended to the `users.json` file in JSON format.
4. The server checks if `users.json` exists and creates it if necessary, starting a JSON array.
5. If the file exists, new data is appended while maintaining valid JSON format.
6. User data is stored as a JSON object with name, email, password, and phone properties.
7. You can check the stored data by opening the `users.json` file in a text editor.
8. The file contains an array of JSON objects, each representing a user.

Running the Project

1. Run the Backend

- Compile the Server.java file in the terminal: `javac Server.java`
- Start the backend server: `java Server`
- Access backend services at: `http://localhost:8080`



```
PROBLEMS 6 OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\The Laptop Hut\Desktop\project> cd backend
PS C:\Users\The Laptop Hut\Desktop\project\backend> javac -cp ".;gson-2.10.1.jar" Server.java
PS C:\Users\The Laptop Hut\Desktop\project\backend> java -cp ".;gson-2.10.1.jar" Server
Server is running on http://localhost:8080
█
```

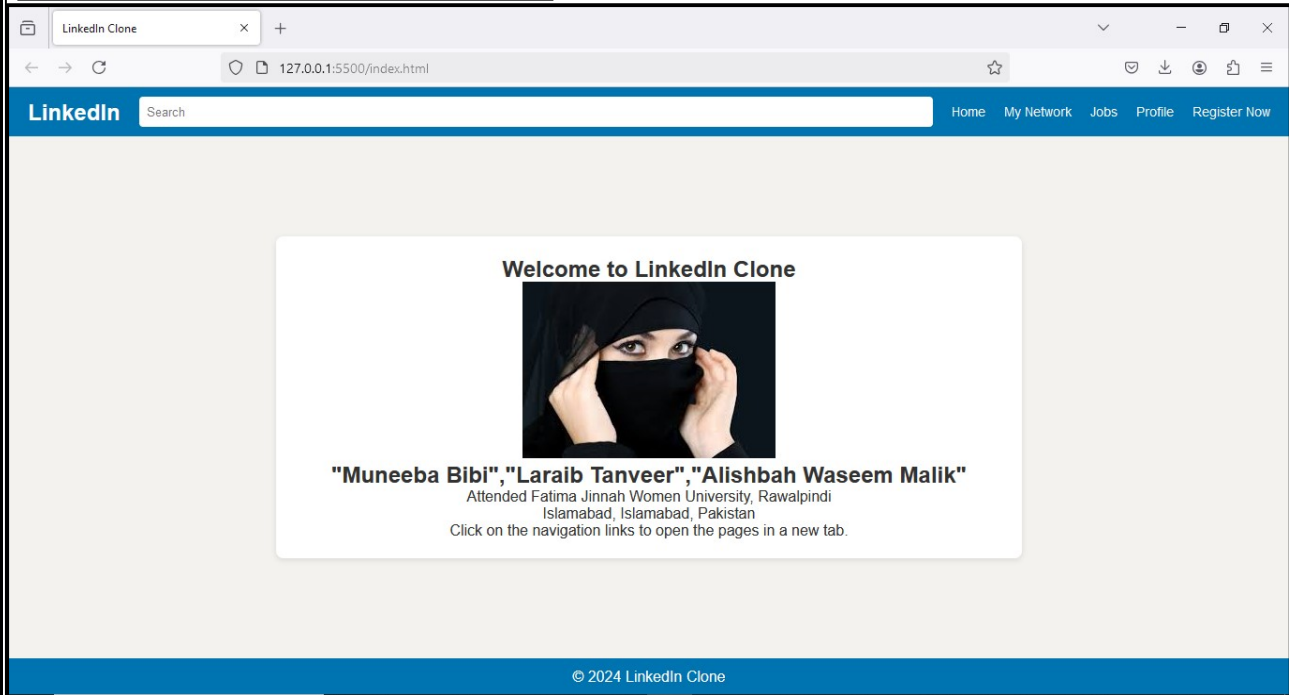
2. Run the Frontend

- Right-click on index.html in VS Code and select "Open with Live Server" to view the website.

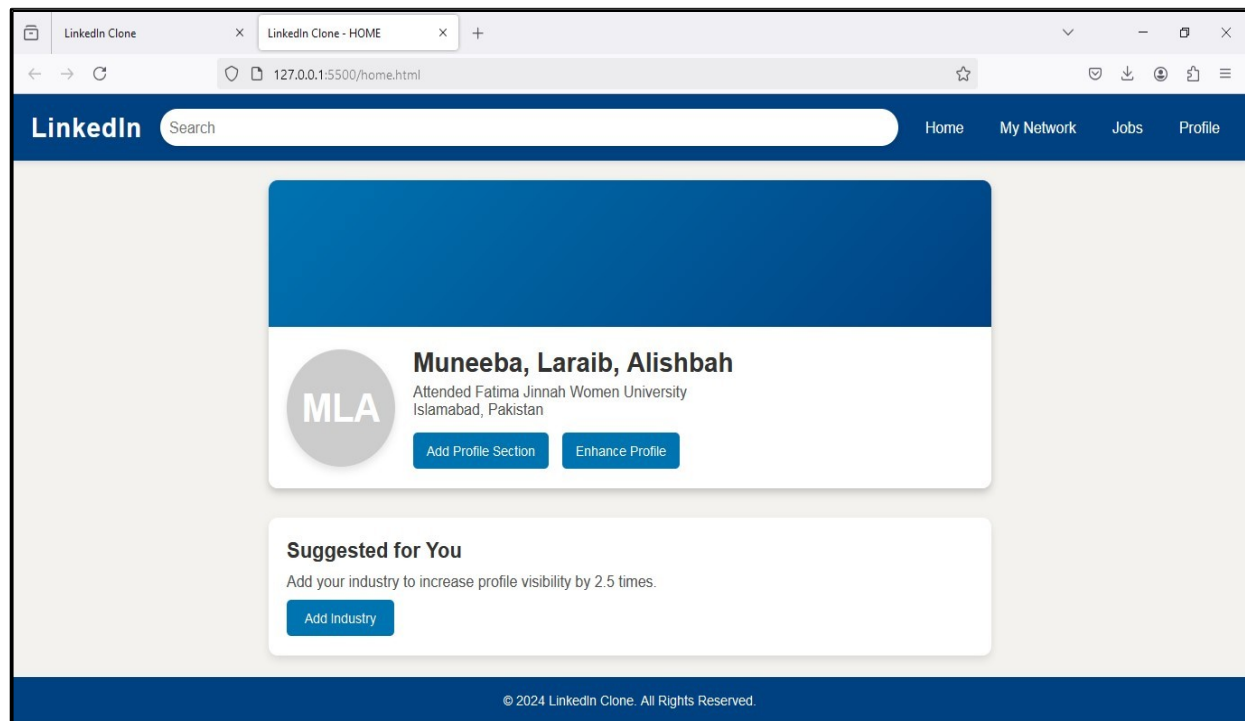
Key Features Included

1. Simple and Natural Dialog: User-friendly text on the UI.
2. Language Fit: Professional tone for LinkedIn users.
3. Minimized Memory Load: Clear sections and labels.
4. Coherence and Consistency: Uniform styles across pages.
5. Shortcuts: Buttons for easy navigation.
6. User Feedback: Visual transitions between pages.
7. Error Avoidance: Basic navigation with no dead links.
8. Clear Exit Marks: "Go Back" button for intuitive navigation.
9. Error Messages: Backend displays errors for unsupported routes.
10. Help and Documentation: Ability to add a "Help" section.

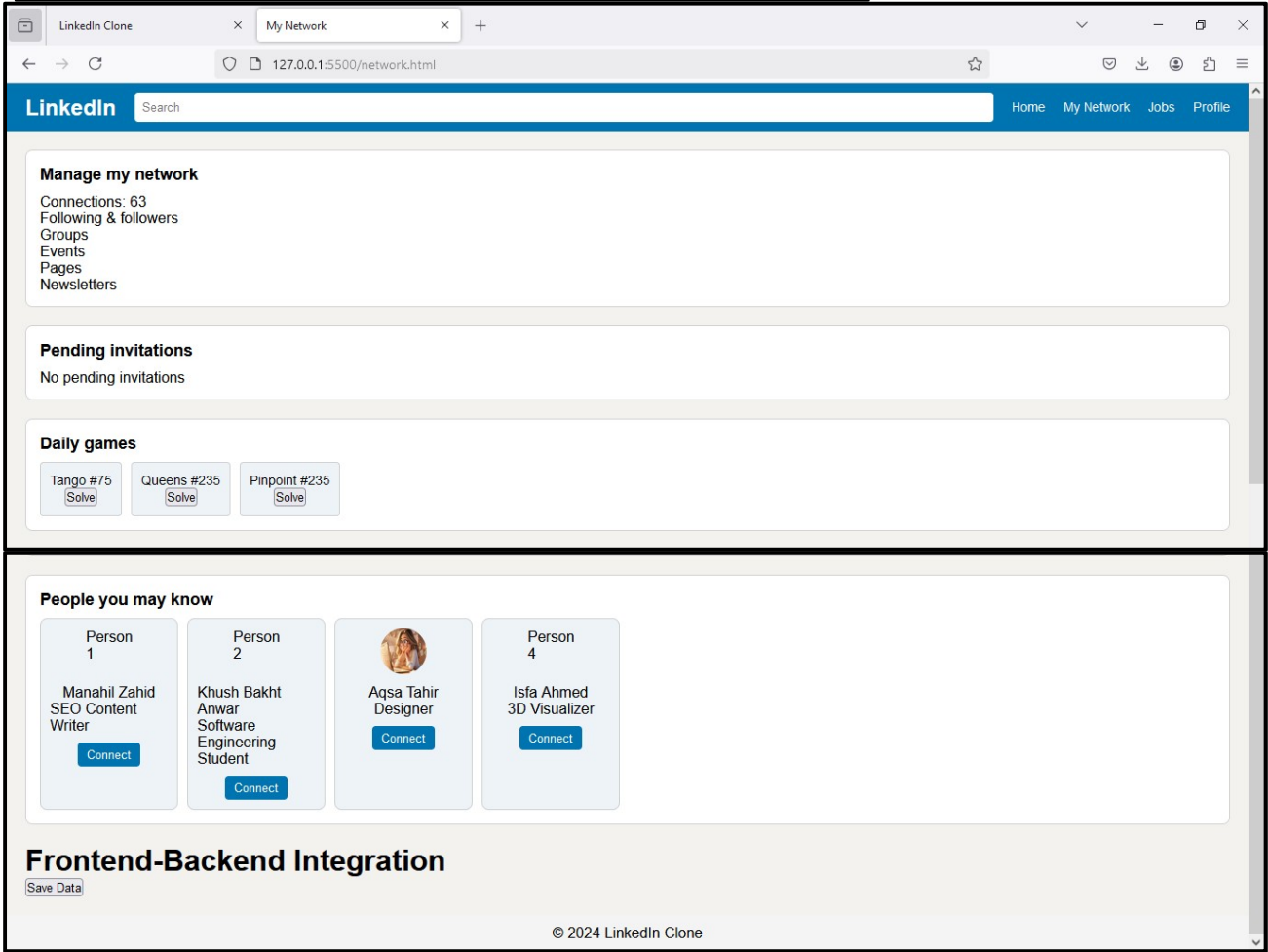
FINAL WEBSITE LOOK



HOME PAGE

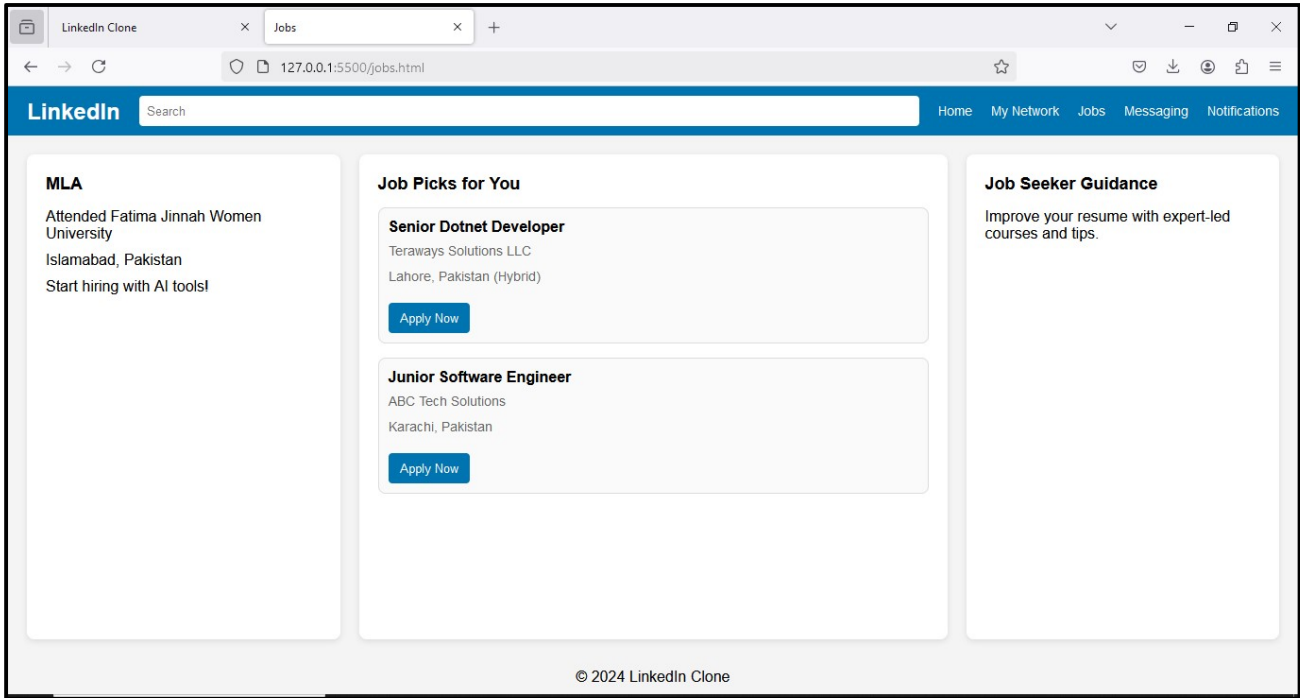


MY NETWORK PAGE

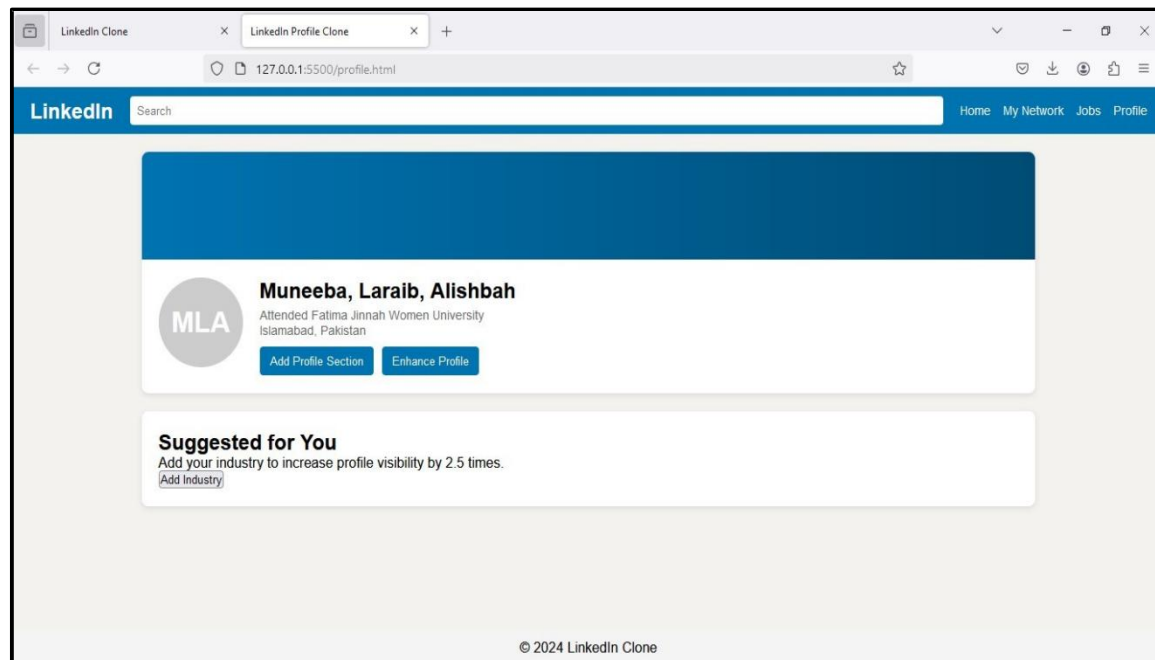


JOBS PAGE





PROFILE PAGE



REGISTER NOW PAGE

LinkedIn Clone

Register Now

127.0.0.1:5500/register.html

My Business

[Home](#) [Register Now](#) [Contact Us](#)

Register Now

Full Name:

Email:

Password:

Phone Number:

Register

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LinkedIn Clone

Register Now

127.0.0.1:5500/register.html

My Business

[Home](#) [Register Now](#) [Contact Us](#)

Register Now

Full Name:

Email:

Password:

Phone Number:

Register

An error occurred. Please try again.

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LinkedIn Clone

Register Now

Passwords

Firefox about:logins#%7Bb7db9fba-72d8-4049-a32f-9f0df54907e%7D

Search Passwords

+

Sort by: Name (A-Z) 1 password

S

127.0.0.1:5500

bmuneebabibi@gmail.com

127.0.0.1:5500

Website address

<http://127.0.0.1:5500>

Username

bmuneebabibi@gmail.com

Copy

Password

••••••••

Copy

Dec 27, 2024 Created

Dec 27, 2024 Used

Edit

Remove

LinkedIn Clone

Register Now

Passwords

Passwords

127.0.0.1:5500/register.html

My Business

[Home](#) [Register Now](#) [Contact Us](#)

Register Now

Full Name:

Email:

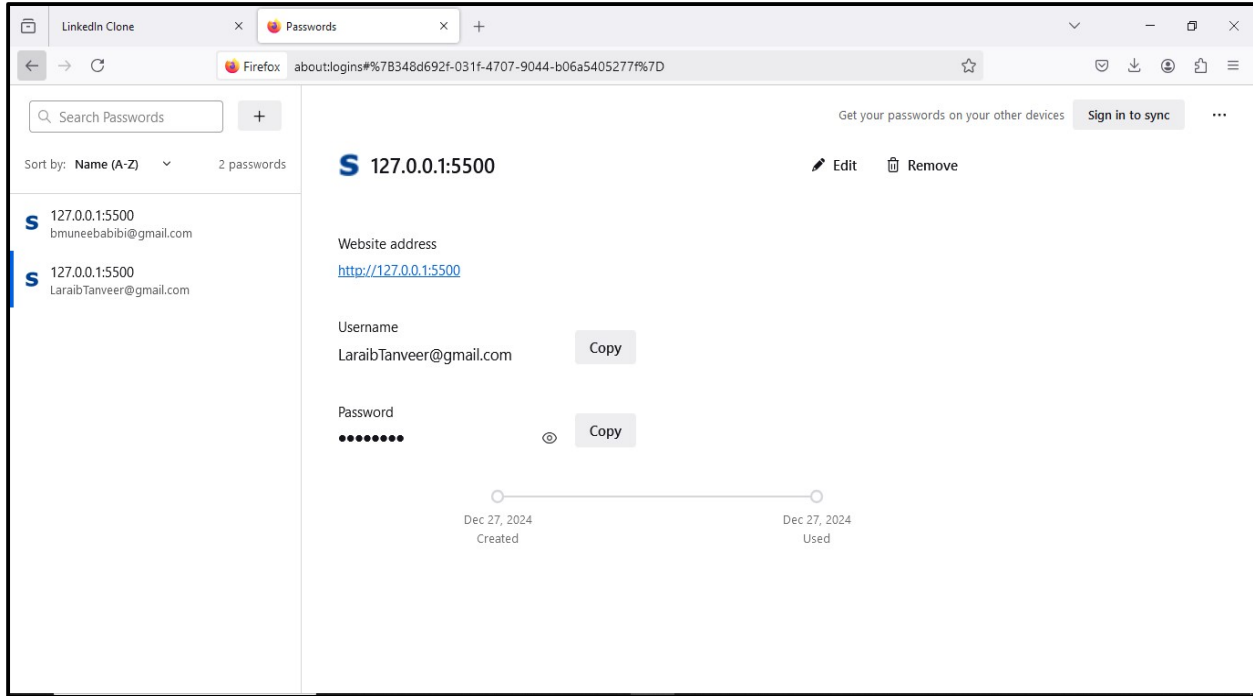
Password:

Phone Number:

Register

An error occurred. Please try again.

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Conclusion

The LinkedIn Clone website demonstrates the successful application of fundamental web technologies such as HTML, CSS, JavaScript, and Java to create a professional networking platform. The project's modular structure ensures efficient development and scalability, with a clear division between the frontend and backend components. The intuitive user interface, combined with seamless transitions and user-friendly design, enhances the overall user experience. Through this project, the integration of backend functionalities with a frontend interface is accomplished effectively, showcasing a solid foundation for building more advanced web applications. This LinkedIn Clone serves as a valuable learning experience in web development and offers potential for further customization and enhancement.

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