



# Photogram – A Web Orchestrating

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## ABSTRACT

The central notion of this paper is the social media platform photogram, which is open source. The goal of this project is to develop a user-friendly and contemporary social media platform. The proposed system enables users to submit and share photos with their friends. The chat window on the platform enables users to communicate in real time with their connections. Photogram includes a variety of security features, such as encrypted user credentials and protection against common web attacks. This article describes a secure and dynamic platform for photo exchange and communication.

**Keywords:** photogram, open-source, social-media.

## 1. INTRODUCTION

Photogram is open-source social media platform that lets peoples to share their photos with their friends, features of real-time chat box, user profiles and photo feeds. It's built with LAMP stack which stands for Linux, Apache server, MySQL database, and PHP language Overall photogram is project that seeks to provide a free, customizable and secure social media platform for users who want an alternative to proprietary social media platforms. Open-source project naturally makes it an ideal platform for the developers and designers to contribute to build upon, creating a community driven platform [1].

## 2. LITERATURE REVIEW

Social media platform has become an integral part of everyone daily lives, allowing everyone to share their experiences and connect with friends and family. However, concerns about our privacy and security have led to growing demand for social media platforms that prioritize user data and data protection. Several studies have highlighted the benefits of using open-source software in social media platform such as more flexibility, customization options, allowing developers to tailor the platform to the specific needs of its users. Additionally open-source software is more secure and reliable because the source code is available for scrutiny can be audited by the community. In social media Platforms Everyone wants to control their data and choose who can access it. Most problem in closed source social media platform is lack of transparency, limited customization, may broke leading to data breaches.

## 3. PROPOSED SYSTEM

After analyzing the drawbacks from the existing system, we have proposed a photogram, an open-source social media platform developed with the help of self-made ninja academy virtual Labs and using python, PHP, JavaScript, flask and many more to connect people and allow them to share information and ideas on online. Social media platforms are designed to facilitate communication, interaction, and collaboration between individuals and groups across different geographic locations and time zones.

- B. LAMP Stack
- C. Database
- D. Hashing and Fingerprint Js

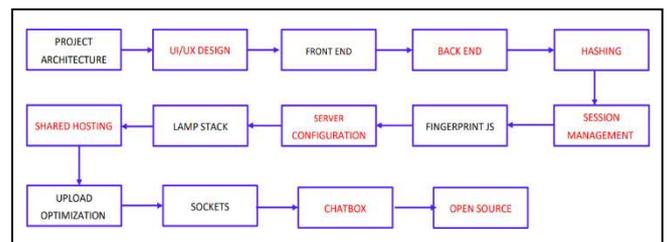


Figure.1. Architecture Diagram of photogram

### A. Architecture Diagram:

Photogram architecture diagram represents the presentation layer, application layer and data layer.

- Presentation layer - which is responsible for displaying content to the user in a visually appealing. The front-end of Photogram is built using HTML, CSS, and JavaScript, which provide a responsive and user-friendly interface.
- Application layer - which is responsible for the middle layer of the system, which handles the business logic and data processing
- Data layer - which is responsible for storing and managing the system's data

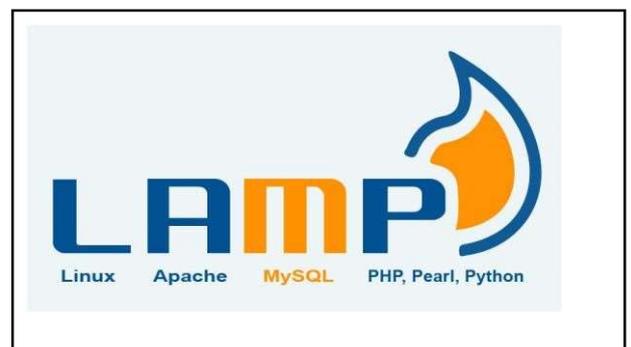


Figure.2. LAMP Stack

### B. LAMP Stack

The LAMP Stack, shown in figure is a widely used open-source web development platform stands for Linux, Apache, MySQL, and PHP. Linux is the operating system that runs the LAMP stack. It is an open-source operating system that is widely used in web development due to its stability, security, and flexibility. [7] narrated about a type of skin malignant growth which is melanoma. There are numerous types of skin malignancy, for example, Basal Cell Carcinoma (BCC), Squamous Cell Carcinoma (SCC) and Melanoma. In which the deadliest type of skin disease is the Melanoma. Demise pace of melanoma has expanded among skin malignant growth patients and it is hazardous..

### C. Database tables and Hashing

To connect a database, we need snapy and snapy virtual labs. To create a database firstly we need visual studio code and we have to make a port forwarding. Open a local host and login to the Adminer and create a table as auth, likes, post\_images, posts and profile.

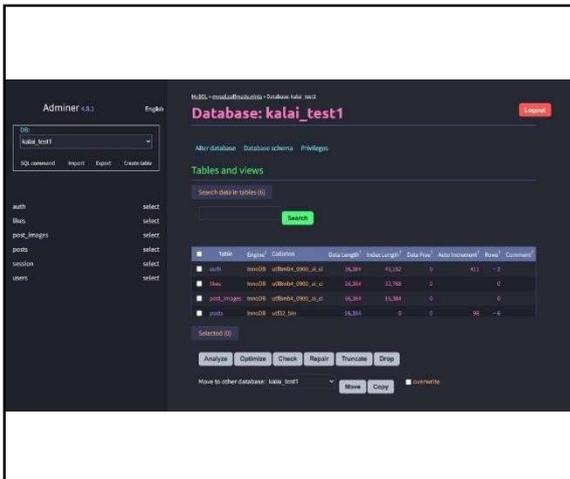


Figure.3. Database tables

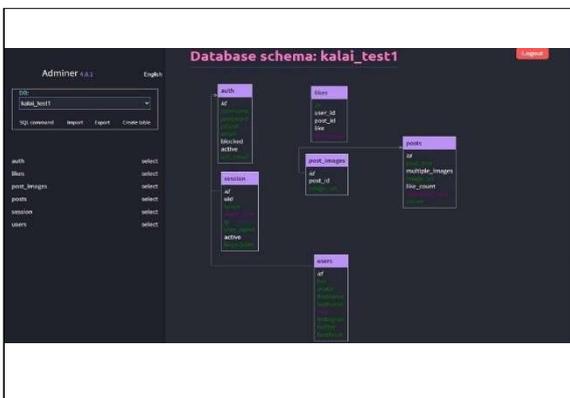


Figure.3.1. Database schema

### D. Hashing and Fingerprint Js

Bcrypt is a widely-used hashing function in PHP that is commonly used for password storage. It uses a combination of a salt and a cost parameter to create a secure

hash of a password, making it resistant to brute force attacks. [2] proposed a method in which the minimization is performed in a sequential manner by the fusion move algorithm that uses the QPBO min-cut algorithm. Multi-shape GCs are proven to be more beneficial than single-shape GCs. Hence, the segmentation methods are validated by calculating statistical measures. The false positive (FP) is reduced and sensitivity and specificity improved by multiple MTANN

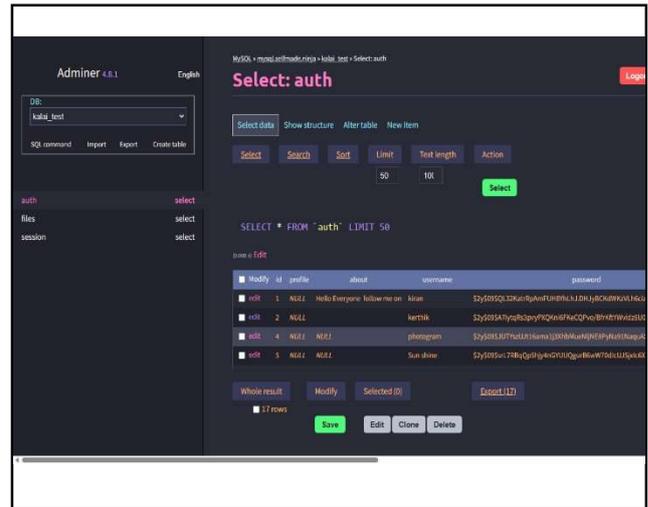


Figure.4. Hashing

Fingerprint JS is a JavaScript library that provides a unique browser fingerprint for each user based on their browser configurations and settings. It uses a combination of various browser information such as screen resolution, language, installed plugins, user-agent, and others to create a unique identifier for a user's browser.

This fingerprint can be used to track user behavior and provide personalized content, as well as for security purposes such as detecting fraudulent behavior.

## 4. RESULT

In this result section, we have output of the photogram and chatbox.

The below figure 5 is showing the photogram main page. In header it consists of contribute, chatbox, login and signup page. To upload a post, we have to register.

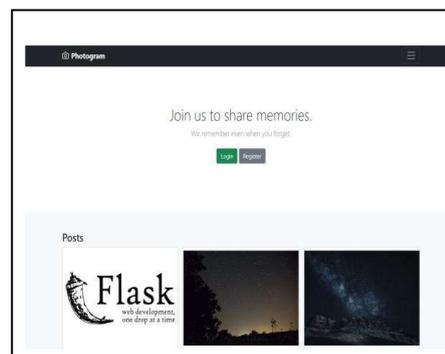


Figure.5. Photogram Main Page

In figure 6, we have shown the screenshot of the uploading images on photogram after login

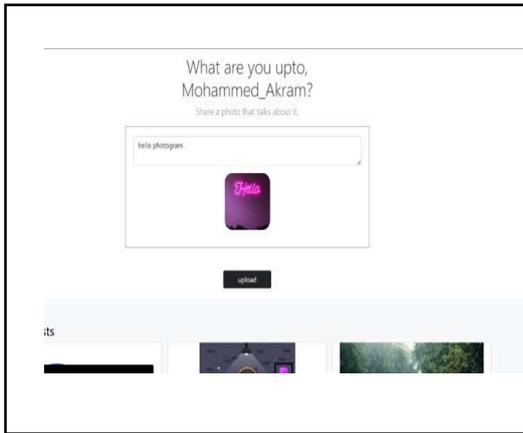


Figure.6. Uploading Images

In figure 7, we have to login into chat box after. We have to create workspace and channel with admin name and we have to share joining code for person who has to join a group. We can able to chat with our friends and we can able to share a photo in a group.

In workspace we can able to create a multiple channel. The channels are separate from each other and channel is more secure.



Figure.7. Creating Workspace

In figure 8, we have shown the screenshot of the chat interface. In interface it has button of logout, join workspace and profile picture.

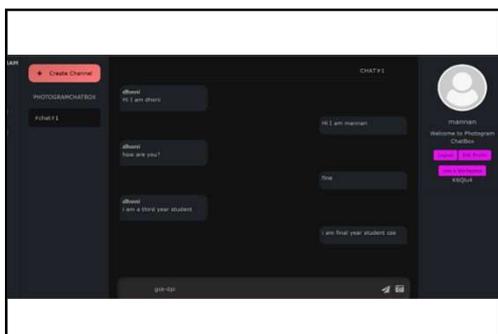


Figure.8. Chat Interface

In this Photogram we have used php, python, HTML, CSS, scss, sass, bootstrap, session management, fingerprint Js, jQuery, JavaScript, MySQL.

## 5. CONCLUSION & FUTURE SCOPE

The Photogram aims to provide a free, customizable, and accessible social media platform that prioritizes our privacy and security. By open-source technology, Photogram offers a flexible and scalable alternative to proprietary social media platforms, with its user-friendly interface and robust feature set, Photogram is composed to become a popular social media platform for users who value privacy, security, and customization.

In Future we can improve the photogram by video support, hash tags, search functionality, push notifications, photo editing tools to upload a photos and videos easily.

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