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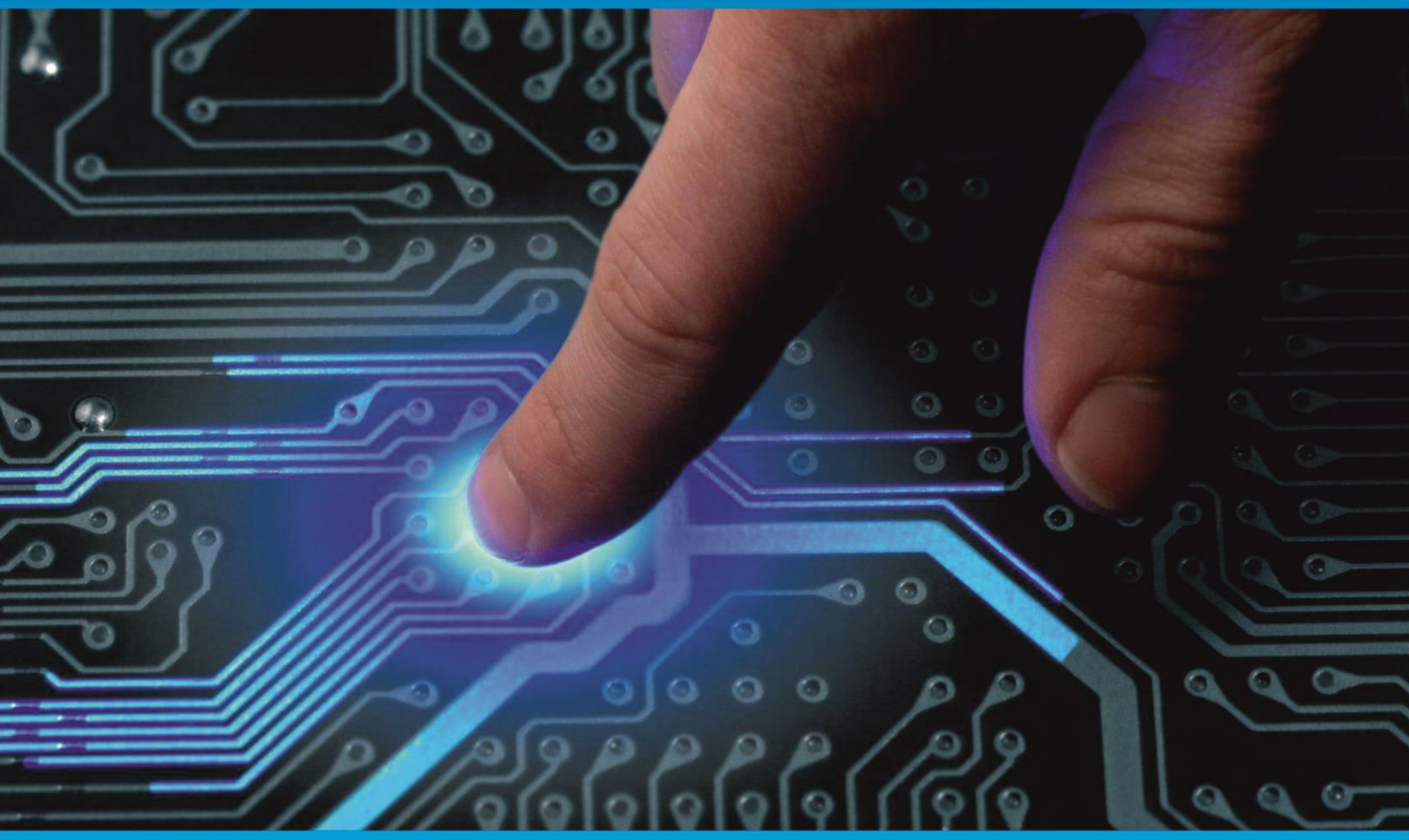

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Virtual Events Using AI- Automated login

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ABSTRACT: Emerging technologies leads to the drastic development of communication medium. Therefore, people find it easier to communicate online rather meeting in person. This has paved way for chat applications. On the other hand, security and privacy has fallen into threat. As the applications allow large number of users to participate at the same time, they fail to follow proper authentication. Hence, we are presenting our "Virtual Events" web-based application which is especially designed for secured authentication. This application can be used for hosting various online events more securely and safely. Also, payments are integrated within the application for hassle free services. Users can either login as host or participant. This web-based application doesn't require any specific hardware or software, it runs on any PC/Laptop. It is designed in such a way that it can be easily used by anyone. Enabling AI thus helps us authenticate users more safely and securely.

KEYWORDS: Face API, Payment Gateway, OAuth 2, Email, WebRTC

I. INTRODUCTION

This is a communication platform which allows users to communicate with each other. Existing chat applications lack some facilities such as payments and so on. Through this application one can host any event online hassle-free. Authentication plays a major role in this web-based application. We have used AI for authenticating users. Host and participants are identified at the time of Login. They can log in easily with their own mail id's. List of events that can be hosted: webinar, seminars, interviews, technical events, non-technical events, any functions, classes and more. We have used face authentication that isn't being used in any of the existing applications.

Participants can easily pay money within the application. Unified payment methods are included within the application for easy transactions. The application itself generates meeting id's that are sent to the users registered mail id at the time of the event. So, they can easily join the meeting without any hurdles. Application is designed in such a way that it is completely reliable and easily accessible. Users are categorised into hosts and participants at the time of registration. People are not charged for registering themselves on the platform. Payments are Secured by One-time passwords that are instantly generated at the time of making payment.

The platform is helpful for various users across. This can be used by users of all Age categories. We have optimised the application to the extent, so that the user won't face any difficulties in using the application. Key principles behind the application are Authentication, Privacy and Security. Authorised access prevents intruder's entry thus ensuring privacy. Users can chat within the application. Unauthorised entries are blocked automatically by the application. Users are redirected to the home page once payments are done and also, they receive payment receipt to their mail id. Payment receipts can be used for further reference.

II. PAYMENTS (PAYTM GATEWAY)

Whether you're making transactions through payment gateway integrations on web pages or mobile, safety is the biggest concern. Paytm All-In-One Payment Gateway follows strict security protocols to ensure that all your transactions are 100% secure and all your and your customers' data remains safe.Paytm (a partial abbreviation for "pay through mobile") is an Indian multinational technology company that specializes in e-commerce, payment system and financial technology company, based in Noida, Uttar Pradesh, India. Paytm is currently available in 11 Indian languages and offers online use-cases like mobile recharges, utility bill payments, travel, movies, and events bookings as well as in-store payments at grocery stores, fruits and vegetable shops, restaurants, parking, tolls, pharmacies and educational institutions with the Paytm QR code.

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As per the company, over 7 million merchants across India use their QR code payment system to accept payments directly into their bank account. The company also uses advertisements and paid promotional content to generate revenues.

THE PAYMENT GATEWAY PROCESS

1. The customer pays by inserting their card details.
2. Paytm All-In-One Payment Gateway securely sends the customer's card details to the acquiring bank.
3. The bank then sends these details to the issuing bank for approval.
4. The acquiring bank performs a fraud check and sends the approval or decline message to the acquiring bank.
5. The acquiring bank then sends an approval or decline message to the payment gateway, transmitting the information to the merchant.
6. If the payment is confirmed, the acquiring bank accumulates the payment amount from the issuing bank and holds the funds in the merchant account.
7. The funds are then shifted to the merchant's bank account from the payment solution provider, which is known as a settlement.

III. ISSUE WITH EXISTING SOLUTIONS

Currently many platforms offer similar services, but they aren't completely flexible in usage. They miss many features such as payments, face authorization and customising events.

Due to lack of authorization, there are chances of intruders miss handling the events. Also, it leads to theft of information. This obviously reduces the trust towards the application. Privacy is the most important concern of many users across the globe.

Payments within the application is not possible with the existing platforms. Users need to go to external sources to make payments. This consumes more time and it cannot assure safety. Consumers face difficulties in making payments with the existing services.

IV. PROBLEM STATEMENT

Here we have addressed to the above-mentioned issues. As a response, organisations are looking at ways to digitalise their events. The need for global conversations is not going away, and technology seems to be an obvious solution. Virtual events will not only help you reduce your carbon footprint, they also allow you to increase the reach of your message across the organization.

V. PROPOSED SYSTEMS

The objectives for creating this application are:

- Users can register themselves easily with their Gmail account.
- Face authorization is mandatory for all the users.
- Participants receive meeting id to their registered email.
- Payments can be made within the application more easily and securely.
- Event organizer can create events and share their ids to participants.

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VI. SIMULATION RESULTS

Host can login and authorize to create a new event and can send invite to all the clients with the link and can manage the meeting description.

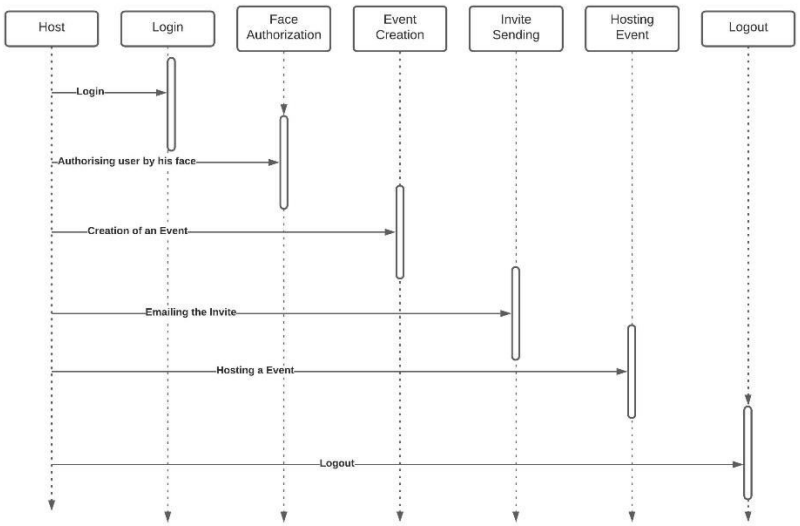

Fig 1.1 Host

Client can sign up and sign into to the app and then after the successful completion of the face authentication they can pay the fees of the event and can join to the invited events.

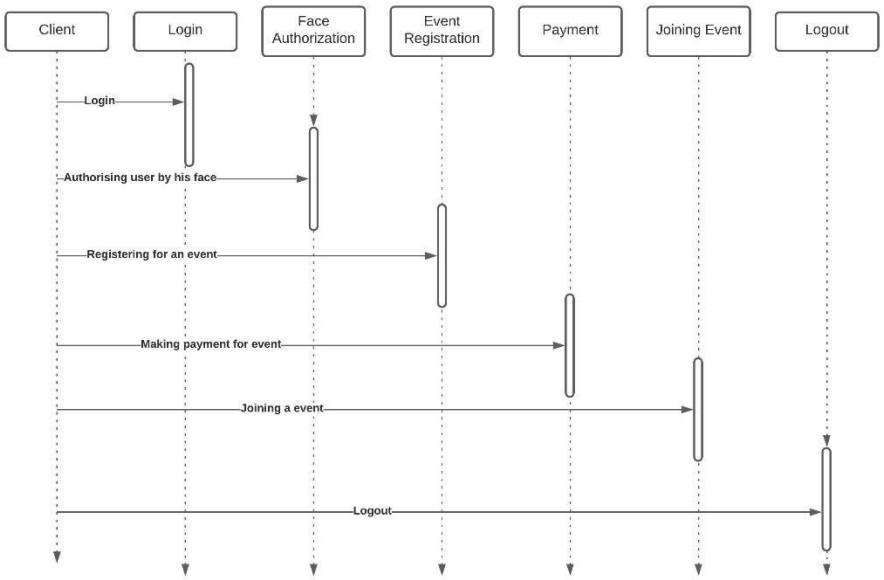

Fig 1.2 Client

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VII. GOALS

Users can easily register on the platform and ensure security and privacy. Face authorization helps them stay safe during events. Thus, it prevents intruders from entering the meeting room. Users can chat with one another from within the application.

Once participants register for any event, they receive meeting id independently through mail. Every time new meeting id is created and shared to the registered users.

VIII. ADVANTAGES

- Payments are made within the application.
- Face authorization increases the levels of safety and is more secured way of authentication.
- Users receive individual meeting ids to their respective mail.
- User can securely access the events.

XI. LITERATURE SURVEY

A virtual event is an online event that involves people interacting in a virtual environment on the web, rather than meeting in a physical location. Virtual events are typically multi-session online events that often feature webinars and webcasts. They are highly interactive, often aiming to create as similar an experience as possible to their physical counterparts.

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X. FACE API

The face-api.js JavaScript module implements convolutional neural networks to solve for face detection and recognition of faces and face landmarks. The face-api.js leverages TensorFlow.js and is optimized for the desktop and mobile web.

There are several models available with face-api.js, including face detection, face landmark detection, face recognition, facial expression recognition, age estimation, and gender recognition.

XI. FUTURE ENHANCEMENTS

- In near future, we are adding biometric authorization.
- We are planning to add new feature i.e., number of users joining the event will be increased.
- We are working to give seamless user interface for flawless working experience.

XII. CONCLUSION

By using Virtual Events host can reduce his efforts and save time in organising the event . It is useful for clients across the globe.

- Face authorization improves the security by restricting unauthorized login.
- It's easy to use and does not require special hardware or software.
- Internal payments method reduces time and is easy to use.
- Paytm supports and accepts payments from any sources.
- Using Virtual Events one can host safe and secured events.

XIII. RESULT

The project has been implemented on web browsers. Also different attributes have been added to the project which will prove to be advantageous to the system. Using Face API users are automatically authorized to the platform thus ensuring safe events.

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